

# ORAD RDC Newsletter

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## NIH CONTRACTOR RESPONSIBILITIES UNDER "LIMITATION OF COST" AND/OR "LIMITATION OF FUNDS" CLAUSES OF COST-REIMBURSEMENT CONTRACT AWARDS

NIH has issued a notice emphasizing responsibilities of contractors under the "Limitation of Cost" Clause in cost-reimbursement contracts, and the "Limitation of Funds" Clause in incrementally funded contracts. These clauses require a contractor to notify the contracting officer in writing whenever there is reason to believe actual costs of performance are expected to be greater or less than the estimated cost or amount funded. A contractor may not make expenditures beyond that limit except at its own risk. Timely written notice under the appropriate clause enables the contracting officer to elect whether to add funds in time to prevent interruption of the work or to phase out the work where additional funds are unavailable or unjustified. Thus, even if a cost-reimbursement contractor gives proper notice of an overrun, it would not be entitled to further reimbursement unless authorized by the contracting officer in writing to continue performance.

Accordingly, it is imperative that investigators and appropriate departmental accounting staff be familiar with the above-referenced clauses if funding is currently provided via a NIH cost-reimbursement contract. Questions relevant to this policy should be referred to the appropriate grant administrator: Todd Morrison, 373-5930; Susan Stensland, 373-5921; or Mary Lou Weiss, 373-5605.

## REVISED SALARY CEILING FOR NIH RESEARCH CAREER MANPOWER DEVELOPMENT PROGRAMS

Effective with awards made from FY 1985 funds (competing and noncompeting awards made on or after October 1, 1984), NIH is increasing the amount of salary that may be requested on the following awards in the Research Career Manpower Development series:

- Academic/Teacher Investigator Award (K07)
- Clinical Investigator Award (K08)
- Mid-Career Award (K07)
- Physician Scientist Award (K11, K12)
- Research Career Development Award (K04)
- Special Emphasis Research Career Award (K01)

Requests for base salaries up to \$40,000 a year plus applicable fringe benefits will be considered. Proposed salary levels must be in accordance with institutional salary levels, consistently applied, regardless of the source of

support. Justification for the sum requested must include a comparison of the salaries of other individuals at the applicant institution of equivalent rank and experience to that of the awardee. In the case of the Physician Scientist Award Phase I, the comparison group is the house staff training level at which the applicant would be if he/she were on a residency track. In Phase II, the salary may be compared to that of junior faculty with similar training and experience.

#### **LABORATORY ANIMAL WELFARE, PROPOSED PHS POLICY ON HUMANE CARE AND USE OF LABORATORY ANIMALS BY AWARDEE INSTITUTIONS**

In a special edition of the *NIH Guide for Grants and Contracts*, Vol. 13, No. 5, April 5, 1984, the Public Health Service proposed to amend the PHS Extramural Animal Welfare Policy (DHEW Grants Administration Manual, Chapter 1-43). Written comments on the proposed policy were requested on or before July 15, 1984. The Public Health Service has announced the dates and locations of three open hearings to give the public an opportunity to comment orally on the proposed policy as follows:

July 19, 1984	Federal Office Building Room 140, 601 East 12th Street Kansas City, Missouri
July 24, 1984	J. F. Kennedy Federal Building Government Center, Room 2003 Boston, Massachusetts
August 2, 1984	Third and Broad Building 2901-Third Avenue, Room 180 Seattle, Washington

All hearings will convene at 9:00 a.m. Any person wishing to speak should file a written request and receive prior confirmation from the Office of Protection from Research Risks. Requests will be granted on a first-come basis. Copies of presentations may be submitted for the record. Oral presentations are limited to ten minutes, and requests to speak must be received ten days prior to the hearing by: Ms. Carol Young, National Institutes of Health, Building 31, Room 4B09, Bethesda, MD 20205. A copy of the proposed policy may be obtained from ORA at 373-5925. Questions relevant to the policy should be directed to Research Animal Resources, Dr. Patrick Manning, Director, 376-5097.

#### **FOGARTY INTERNATIONAL CENTER, "DIRECTORY OF INTERNATIONAL OPPORTUNITIES IN BIOMEDICAL AND BEHAVIORAL SCIENCES"**

The International Research and Awards Branch of Fogarty International Center has prepared a convenient listing of organizations and agencies that support fellowships for research in the biomedical and behavioral sciences. Limited copies are available from ORA by calling 373-5925. Individual copies may be obtained by providing a self-addressed envelope and request to: International Research and Awards Branch, Building 38A, Room 613, Fogarty International Center, National Institutes of Health, Bethesda, MD 20205.

## **NCI, COOPERATIVE MINORITY BIOMEDICAL PROGRAM**

Domestic research institutions currently receiving NCI grants and interested in including minority researchers in their cancer research may submit a supplemental grant application for this purpose. Approved applications will be funded as supplements to previously peer reviewed active grants. These may include, but are not limited to, individual project (R01) and program project (P01) grants. Any domestic institution with an active cancer research grant is eligible to submit a supplemental application on behalf of a principal investigator for the exclusive purpose of including minority researchers in the project. Complete information and guidelines may be obtained by calling ORA at 373-5925.

## **NATIONAL INSTITUTE OF AGING ISSUES GUIDELINES FOR PROGRAM PROJECT APPLICATIONS**

NIA has issued revised guidelines (Rev. 5/84) relevant to program project applications. A copy may be obtained from ORA by calling 373-5925.

## **ADDENDUM ISSUED TO PHS GRANTS POLICY STATEMENT**

An addendum to the Public Health Service Grants Policy Statement detailing changes and providing clarification of PHS policies has just been issued and is generally effective for grants with budget periods beginning on or after April 1, 1984. Select additional authorities described in the document have been extended to the Institutional Prior Approval System for grants active on April 1, 1984, regardless of the budget period beginning date. In the interest of facilitating broad communication of the changes as expeditiously as possible, the addendum was reprinted in its entirety at the end of the May 25, 1984 *NIH Guide for Grants and Contracts* (Vol. 13, No.7). Copies may be obtained by calling ORA at 373-5925.

## **NIH TO DISPLAY INDIRECT COSTS ON NOTICES OF GRANT AWARD EFFECTIVE JULY 1, 1984**

Each NIH Notice of Grant Award issued on or after July 1, 1984, will include the dollar amount of indirect costs expected to be provided in association with that grant. This amount will be identified in the "Remarks" section as follows:

Indirect costs for this award are expected to be  
\$ \_\_\_\_\_. Actual indirect costs will be  
provided on a Summary Notice.

In all other respects the system that NIH has followed since July 1971 for issuing, adjusting and settling indirect costs applicable to research project grants will continue to be followed.

## **NIH PRIOR APPROVAL - CHANGE IN ORA PROCESSING PROCEDURE**

Where prior approval must be obtained from the NIH awarding component, it has been the practice to send request letters only to the addressee provided by the principal investigator, i.e. either the Grants Management Officer or the Programmatic Officer. Based on recent inquiries by various institutes of NIH, the Office of Research Administration has initiated a procedure whereby *both* NIH

officials, Programmatic and Grants Management, receive copies of the pending request. Accordingly, to facilitate and expedite processing, please note on the request letter the appropriate individual to receive a carbon copy.

### **FORD FOUNDATION TO INCREASE FUNDING IN FISCAL YEAR 1984**

The Ford Foundation, a private, nonprofit institution which awards grants for projects of national and international scope, expects to award \$258 million in grants in FY 1984, an increase of 5.7 percent over FY 1983. Grants are made to institutions and organizations for experimental, demonstration and developmental efforts that give promise of producing significant advances in various fields. The Foundation awards grants in the following broad areas: population, fair start for children, human rights and governance, education and culture, international affairs, urban poverty and rural poverty and resources.

The Foundation's board of directors meets quarterly to consider proposals; however, they may be submitted at any time. The Foundation funds projects during a fiscal year, from October 1 through September 30. Single project grants average between \$150,000 and \$200,000 and are generally made for two years. For more information concerning program areas and application procedures, contact ORA at 373-1970.

### **GERMAN MARSHALL FUND**

The German Marshall Fund of the United States is an independent, American organization principally engaged in making grants to other organizations; it also conducts its own fellowship and internship programs. The Fund supports activities that 1) promote a better understanding of issues that arise between Western Europe and the United States, and 2) permit individuals on both sides of the Atlantic to develop new perspectives on selected domestic problems (employment, urban affairs, criminal justice, environment, immigration) common to both Western Europe and the United States. Specific program deadlines are listed in the Nonfederal Deadline section of the Newsletter.

### **METROPOLITAN LIFE FOUNDATION**

Metropolitan Life Foundation was created for the purpose of supporting various scientific, educational, health and welfare, and civic and cultural organizations. The primary objective of the Foundation is to assist tax-exempt organizations through a program of financial support, particularly in the communities in which Metropolitan has a major presence. Requests for financial support are accepted and reviewed throughout the year. A copy of the policy and guidelines brochure may be requested by calling 373-1970.

### **ANDREW W. MELLON FOUNDATION**

The purpose of the Andrew W. Mellon Foundation is to "aid and promote such religious, charitable, scientific, literary, and educational purposes as may be in the furtherance of the public welfare or tend to promote the well-doing or well-being of mankind." Within this broad charter the Foundation currently awards grants in five major areas: higher education; cultural affairs and the performing arts; medical, public health, and population education and research; conservation, natural resources, and environment; and public affairs. Applications are considered throughout the year, and no special forms are required. For further information call 373-1970.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

### FEDERAL

THE ORA CONTACT NUMBERS FOR FEDERAL DEADLINE/PROGRAM INFORMATION ARE AS FOLLOWS:

DEPARTMENT OF HEALTH AND HUMAN SERVICES	373-5925
DEPARTMENT OF EDUCATION	373-5925
OTHER FEDERAL AGENCIES	373-2771

### NATIONAL INSTITUTES OF HEALTH

Fogarty International Center, Eastern European Scientist Exchange Program	Open	
Fogarty International Center, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
Fogarty, Biomedical Research Fellowship Opportunities Abroad:		
Alexander von Humboldt Awards (West Germany)	Open	
French NIH and Medical Research Postdoctoral Fellowships (France)	October	1
NIH-French National Center for Scientific Research Exchange (France/U.S.)	October	1
Irish Medical Research Council Postdoctoral Fellowships (Ireland)	October	1
Swedish Medical Research Council Fellowships (Sweden)	October	1
Swiss National Foundation Postdoctoral Fellowships (Switzerland)	October	1
Fogarty International Center, Academy of Finland Post-doctoral Research Fellowships	October	1
Fogarty International Center, Norwegian Research Council for Science and the Humanities Postdoctoral Fellowships	October	1
Fogarty International Center, Israel: Ministry of Health Postdoctoral Research Fellowships	October	1
NCI, The NCI Outstanding Investigator Grant (Letter of intent by 5/1)	July	15
NCI, RFA-84-CA-11, Obesity and Cancer Risk in Women	July	27
NCI, RFA-84-CA-12, Dietary Markers for Epidemiologic Studies of Cancer	September	15
NCI, Cancer Education Program	October	1
NCI, The NCI Clinical Investigator Award	October	1
NCI, Biochemistry and Pharmacology Program	November	1
NCI, Cancer Control Research Unit (Letter of intent by 7/2)	December	3
NEI, Vergence Eye Movement	November	1

NEI, Molecular Research: Strabismus, Amblyopia and Visual Processing	November	1
NEI, Research on Basic Mechanisms of Retinal Photoxicity	November	1
NEI/NIAID, Immunological Aspects of Ocular Disease	November	1
NHLBI, RFA-NIH-NHLBI-84HL-14P, Minority Summer Program in Pulmonary Research	August	15
NHLBI, Clinical Investigator Award	October	1
NHLBI, Transfusion Medicine Academic Award	October	15
NHLBI, Research Training and Development Areas:		
Institutional Research Training Grant	October	1
Individual Postdoctoral Fellowship	October	1
Senior Research Fellowship	October	1
Research Career Development	October	1
Clinical Investigator Award	October	1
Physician Scientist Award	October	1
New Investigator Research Award	November	1
NHLBI/NICHD, Hypertension in Pregnancy	November	1
NHLBI, Surfactants for Perflurochemicals	November	1
NHLBI, Protection of the Immature Myocardium During and Following Cardiac Surgery	November	1
NHLBI, Mechanisms of Biobehaviorally Induced Ventricular Arrhythmias and Sudden Cardiac Death	November	1
NHLBI, Biobehavioral Sequellae of Antihypertensive Therapies	November	1
NHLBI, Research in Sickle Cell Disease: Pain Management in Sickle Cell Disease	November	1
NIA/NIAID/NIADDK/NICHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	October	1
NIA, Special Emphasis Research Career Award for Social and Behavioral Scientists in Behavioral Geriatrics Research	October	1
NIA, Social Environments Influencing Health and Effective Functioning in the Middle and Later Years:		
Individual Postdoctoral Fellowships	October	1
Program Project Grants	October	1
New Investigator Awards	November	1
Research Grants	November	1
NIADDK, Preservation of Donor Livers and Assessment of Their Function	July	16
NIADDK/NIA, Research on Anorectal Diseases and Disorders:		
Research Career Development Awards	October	1
Institutional Training Projects	October	1
New Investigator Awards	November	1
Research Projects	November	1
NIADDK/NIAID/NCI/NICHD/NIGMS, Liver Transplantation Research	November	1
NIADDK/NCI/NHLBI/NICHD/NIA/NINCDS, Research on Obesity	November	1
NIAID, RFA-84-AI-07, Program Projects on the Biology of the Immune System	August	1
NIAID, RFA: 84-AI-02, Asthma and Allergic Disease Centers and Asthma and Allergic Disease Centers for Immunodermatologic Studies (Letter of intent by 7/15/84)	October	15
NIAID/NINCDS/NIA, Persistent Viral Infections-Alzheimer's Disease	November	1
NICHD, RFA-NIH-NICHD-84-04, Child Care, Fertility, and Female Labor Force Participation	August	15
NIDR, Small Grant Program	October	1

NIEHS, RFA-NIEHS-84-3, Rat Pancreatic Exocrine Lesions: Biological Nature and Possible Role of Vegetable Oil in Formation of These Lesions in Gavage Studies	July	25
NIEHS, New Investigator Research Award Program	November	1
NIGMS, Medical Scientist Training (MST) Program	October	1
NIH, Senior International Fellowship Program	June 1	1985
NIH, Research Grants, Renewals	October	1
NIH, Research Career Development Awards	October	1
NIH, Individual Postdoctoral Fellowships	October	1
NIH, Institutional Training Programs	October	1
NIH, Support of Meetings (Scientific, U.S.A. or International)	October	1
NIH, DRR, NMR Resources, Biotechnology Resources Program	October	1
NIH, DRR, Intermediate Voltage Electron Microscopy and Image Analysis Resources (Biotechnology Resources Program)	October	1
NIH, Research Grants, New	November	1
NIH, New Investigator Awards	November	1
NINCDS, RFA-84-NS-01, Multidisciplinary Research Centers for the Study of the Neurological Basis of Disorders of Language, Behavior, and Learning During Infancy and Early Childhood	October	1
NINCDS, Individual Postdoctoral Fellowships: Speech and/or Language Disorders	October	1
NINCDS, Research Grants Related to Basic Mechanisms in Phakomatoses	November	1
NINCDS, Cerebrovascular Disease Related to Stroke	November	1
NINCDS, The Biology of Neurodegenerative Disorders	November	1
NINCDS, Osteosclerosis and Elderly Progressive Deafness	November	1

#### NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award <u>for each</u> : School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
NHLBI, Research Training and Development Areas: Short-Term Research Training: Students in Health Professional Schools	February	1
Special Emphasis Research Career: Diabetes Mellitus	June	1
NHLBI, Preventive Cardiology Academic Award	April	1
NHLBI/NIAMDD, SERCA: Diabetes Mellitus-Cardiovascular, Metabolic and Endocrinologic Aspects	June	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NICHD/NIAMDD, SERCA: Diabetes-Mellitus-Obstetrical, Perinatal, and Pediatric Aspects	June	1
NIGMS, NIGMS Shared Instrumentation Grants	February	15
NIH, NRSA for Short-Term Training of Students in Health Professional Schools (Limited to one application per health professional school for a given receipt date)	February	1

## CENTERS FOR DISEASE CONTROL

NIOSH, Occupational Safety and Health, Small Research Grants	October	1
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## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, Renewals	October	1
ADAMHA, Individual Postdoctoral Fellowships	October	1
ADAMHA, Institutional Training Grants, NRSA	October	1
ADAMHA, Research Scientist Development/Research Scientist Award	October	1
ADAMHA, Research Grants, New	November	1
ADAMHA, New Investigator Research Award in Prevention	November	1
Clinical Research Centers on Psychopathology of the Elderly	November	1
NIAAAA/NIDA/NIMH, Institutional NRSA Training	October	1
NIAAAA, Alcohol Research Grants	November	1
NIAAAA, New Investigator Research Award	November	1
NIDA, Heroin and Narcotics	November	1
NIDA, Marijuana and Cannabinoids	November	1
NIDA, Cocaine and Stimulants	November	1
NIDA, Sedatives and Tranquilizers	November	1
NIDA, Hallucinogens	November	1
NIDA, Epidemiology Research	November	1
NIMH, Rape Centers	October	1
NIMH, Geriatric Mental Health Award	November	1
NIMH, Clinical Investigator Award	November	1
NIMH, Research Grants Program	November	1
NIMH, Physician Scientist Award	November	1
NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders	November	1
NIMH/NIDA, Research on Obesity	November	1
NIMH, Prevention Intervention Research Centers	November	1

## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
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## FOOD AND DRUG ADMINISTRATION

Research Grants, Renewals	October	1
Research Grants, New	November	1

## HEALTH CARE FINANCING ADMINISTRATION

Health Financing Research and Demonstration Grants	November	5
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## DEPARTMENT OF EDUCATION

Experimental and Innovative Training Program	July	9
Rehabilitation Long-Term Training Program	July	9
Training Program for Special Programs Staff and Leadership Personnel	July	16



Regional Educational Laboratories and Research and Development Centers Program - NIE	July	16
Discretionary Program-Unsolicited Grants	August	1
Supplemental Funds Program for Cooperative Education	August	15

## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Maternal and Child Health Research	August	1
1985 WHO Fellowships for Travel/Study Abroad	September	30
Bureau of Health Professions, Grants for Utilization of Research in Nursing Practice, Nursing Services	October	1
Bureau of Health Professions, New Investigator Nursing Research Awards	November	1
Advanced Nurse Training Grants	November	1
Nurse Practitioner Training Grants	November	1
Nurse Special Project Grants	November	1

## DHHS, OFFICE OF THE SECRETARY

Social Services Policy Research	July	20
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## SOCIAL SECURITY ADMINISTRATION

Income Maintenance Research and Demonstration Grants: Cost Effective Overpayment Recovery Techniques - SSA-84-02	July	31
Demonstration of Computer Matching in Eligibility Determination and Redetermination - SSA-84-03	July	31

## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Information Science and Technology. Special Research Initiation Awards for New Investigators (NSF 81-34 and 81-69). Contact Dr. Edward Weiss (202) 357-9572	August	1
VLSI (Very Large Scale Integration) Fast Turnaround Fabrication Service for Universities (NSF 83-43). Contact Dr. Andrew Molnar (202) 357-7539	August	1
U.S.-Pakistan International Travel Support (NSF 80-49). Scientists of both U.S. and Pakistan are eligible. Contact Dr. Jean Johnson, or Dr. Osman Shinaishin (202) 357-9402	September	1
U.S.-India International Travel Support (NSF 82-86). Scientists of both U.S. and India are eligible. Contact Dr. Jean Johnson or Dr. Osman Shinaishin (202) 357-9402	September	1
U.S.-Scandinavia and The Netherlands Cooperative Science. Joint research, seminars and long-term research visits. Contact Mr. Henryk Uznanski (202) 357-7554	September	1

U.S.-India Exchange of Scientists (NSF 78-66 and 82-86). U.S. senior scientists only submit to NSF; India scientists, to the Indian Council of Scientific Industrial Research. Contact Mr. Eugene Pronko (202) 357-9550 or Dr. Osman Shinaishin (202) 357-9402	September 15
U.S.-New Zealand Cooperative Science (NSF 81-50). All proposals for projects with requested effective dates falling between July 1 and December 31, 1985. Contact Mr. Alan Milsap (202) 357-9537	October 1
U.S.-Australia Cooperative Science (NSF 81-49 Rev. 1/82). Seminar, cooperative research exchange, and no-cost proposals with requested effective dates falling between July 1 and December 31, 1985. Contact Mr. Alan Milsap (202) 357-9537	October 1
U.S.-Israel Binational Science Foundation (BSF). Proposals should not be submitted to NSF; send to BSF in Jerusalem. Contact Dr. R. R. Ronkin (202) 357-7613	November 15

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Anthropology. Does not include Doctoral Dissertation proposals. Contact Dr. John Yellen (202) 357-7804	August 1
Linguistics. Contact Dr. Paul Chapin (202) 357-7696	August 1
Neurobiology. Contact Dr. Nathaniel Pitts (202) 357-7471	August 1
Psychobiology. Contact Dr. Fred Stollnitz (202) 357-7949	August 1
Memory and Cognitive Processes. Contact Dr. Joseph Young (202) 357-9898	August 1
Climate Dynamics. Contact Dr. Hassan Virji (202) 357-9892	August 1
Sensory Physiology and Perception. Contact Dr. James Larimer (202) 357-7428	September 1
Economics. Contact Dr. Daniel Newlon, Dr. Lynn Pollnow or Mr. James Slaugh, Jr. (202) 357-9675	September 1
Geography and Regional Science. Contact Dr. George Demko (202) 357-7441	September 1
Measurement Methods and Data Resources. Contact Dr. Murray Aborn or Dr. Sara Nerlove (202) 357-7913	September 1
Sociology. Contact Dr. Joanne Miller or Ms. Dorothy Greene (202) 357-7802	September 1
History and Philosophy of Science. Contact Dr. Ronald Overmann or Ms. Bonney Sheahan (202) 357-9677	September 1
Political Science. Contact Dr. Frank Scioli, Jr. or Dr. William Mishler (202) 357-9406	September 1
Law and Social Science. Contact Dr. Felice Levine or Ms. Dorothy Greene (202) 357-9567	September 1
Decision and Management Science. Contact Dr. Trudi Miller (202) 357-7569	September 1
Regulation and Policy Analysis. Contact Dr. Laurence Rosenberg (202) 357-7417	September 1
Science in Developing Countries (NSF 83-58). Contact Sub-Saharan Africa: Mr. Robert Bell (202) 357-9550; South and West Asia: Dr. Osman Shinaishin (202) 357-9402; East Asia: Dr. Gordon Hiebert (202) 357-9537; Latin America and Caribbean: Ms. Christine French (202) 357-9563	September 1

U.S.-East Asia Cooperative Science. Indonesia, Malaysia, Singapore, Thailand (NSF 81-30). Contact Dr. Gordon Hiebert (202) 357-9537	September 1
Ocean Sciences Instrumentation Development. Request the brochure, <i>Proposals for Ocean Sciences Instrumentation Development</i> , from Mr. H. Lawrence Clark (202) 357-7837	September 1
Arctic Research (NSF 82-33). Contact Mr. Guy Guthridge (202) 357-7817	September 1
Biological Instrumentation. Multi-user instrument or instrument development (NSF 83-19). Contact Dr. Arthur Kowalsky (202) 357-7652	September 30
Ecology. Contact Dr. Nancy Stanton (202) 357-9734	October 1
Systematic Biology. Contact Dr. Lloyd Knutson (202) 357-9588	October 1
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka (202) 357-9728	October 1
Doctoral Dissertation Research. Contact Dr. James Edwards (202) 357-9588	October 15

### NATIONAL ENDOWMENT FOR THE HUMANITIES

The following deadline dates are subject to change and potential applicants are encouraged to contact the appropriate program office. Earliest project date (where applicable) and telephone contact information follow each entry.

Division of Fellowships and Seminars	
Summer Stipends-Summer 1985 (202) 786-0466	October 1
Division of Research Programs	
Reference Works, Tools-July 1985 (202) 786-0210	October 1
Reference Works, Editions-July 1985 (202) 786-0215	October 1
Constitutional Programs (202) 786-0204	November 1
Division of General Programs	
Constitutional Programs (202) 786-0438	August 1
Younger Scholars Program-June 1985 (202) 786-0271	September 15
Humanities Projects in Museums-July 1985 (202) 786-0278	October 31
Office of Planning and Policy Assessment	
Constitutional Programs (202) 786-0420	August 1

### NATIONAL ENDOWMENT FOR THE ARTS

Media Arts: Radio Projects (202) 682-5452	July 20
Literature (202) 682-5451	
Literary Magazines	August 10
Assistance to Small Presses	September 13

### NONFEDERAL

THE ORA CONTACT NUMBER FOR NONFEDERAL DEADLINE/PROGRAM INFORMATION IS 373-1970.

American Chemical Society - Petroleum Research Fund Grants-in-Aid	No Deadline
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American Council of Learned Societies		
Fellowships	October	1
Research Fellowships for Recent Ph.D's	October	1
Fellowships for Studies in Modern Society	October	1
ACLS Ford Fellowships	October	1
Grants for Research in Chinese Studies	November	15
East European Studies	November	15
Grants-in-Aid	December	17
American Heart Association-Minnesota Affiliate		
Research Fellowships	November	15
Grants-in-Aid	December	15
American Iron and Steel Institute	August	1
American Lung Association		
Research Training Fellowships	October	1
Research Grants	November	1
Edward Livingston Trudeau Scholar	October	1
Career Investigator Awards	November	1
American Nurses' Foundation		
Competitive Extramural Grants Program	October	1
American Philosophical Society		
Grants-in-Aid	Various--Contact ORA	
Andrew W. Mellon Foundation	No Deadline	
Center for Field Research (Earthwatch)		
Latin America Field Research Grants	No Deadline	
Corporation for Public Broadcasting		
Program Fund/Open Solicitation	August	17
	December	14
Cystic Fibrosis Foundation		
Research Scholar Awards	September	1
New Investigator Research Grants	September	1
Research Grants	September	1
Research Fellowships	September	1
Clinical Fellowships	October	1
Student Traineeships	October	1
Damon Runyon Walter Winchell Cancer Fund		
Fellowship Grants	August	15
Human Cancer-Directed Fellowship Grants	August	15
Dermatology Foundation		
Research Training Fellowships	October	1
Postdoctoral Fellowships	October	1
Grants	October	1
Distilled Spirits Council of the United States	August	1
Easter Seal Research Foundation	August	1
Edna McConnell Clark Foundation	No Deadline	
Engineering Foundation		
Pre-proposals	No Deadline	
Epilepsy Foundation of America		
Clinical Research Fellowships	September	1
Research Grant Application	September	1
Ford Foundation	No Deadline	
Gas Research Foundation		
Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline	
German Marshall Fund		
Research Fellowships	November	30
Equal Opportunity Fellowships	August	1
Short-Term Travel Awards	No Deadline	

Japan/United States Educational Commission	
Japan Fulbright Program	
Recent Graduates	October 31
Senior Scholars and Professionals	September 15
Kellogg Foundation	
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
Leukemia Society of America	
Scholar Program	September 1
Special Fellow Program	September 1
Fellow Program	September 1
March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Clinical (Abstract by May 15)	August 1
Social and Behavioral Sciences (Abstract by May 1)	September 1
Basic	October 1
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
General Grants	
Draft Application	October 19
Final Application (for July 20 draft)	August 10
(for October 19 draft)	November 9
Small Grants	No Deadline
Media Grants	
Final Application	August 10
	November 9
	September 30
Minnesota Medical Foundation	No Deadline
Charles Stewart Mott Foundation (Letter of inquiry)	
National Fund for Medical Education	
Innovative Programs in Medical Education	October 1
Dissemination Mini-Grants	October 1
Fellowships in Medical Education	November 1
National Geographic Society	
Grants-in-Aid	No Deadline
National Kidney Foundation	October 1
National Multiple Sclerosis Society	
Research Grants	August 1
Orthopaedic Research and Education Foundation	
Research Grants	September 15
Career Development	September 15
Department Progress Grants	September 15
Traveling Fellowships	September 15
Resident Research Fellowships	February 15
Pfizer Scholars Program	July 25
Pharmaceutical Manufacturers Association Foundation	
Faculty Development in Toxicology Pathology	September 1
Faculty Development/Clinical Pharmacology	October 1
Fellowship/Advanced Predoctoral Training in	
Pharmacology Toxicology	September 15
Puritan Bennett Foundation	
(formerly Parker B. Frances Foundation)	
Fellowships in Pulmonary Research	September 15

Research Corporation (Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline
Rockefeller Brothers Fund, Inc.	No Deadline
Southeastern Poultry and Egg Association	No Deadline
Sugar Association	August 15
Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial Instrumentation	
Pre-proposals	No Deadline
University Genetics Company (UGEN)	No Deadline
Villers Foundation	No Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

Office of Research Administration  
Administrative Services Center, 5th Floor  
1919 University Avenue  
University of Minnesota  
St. Paul, Minnesota 55104

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# ORAD RDC Newsletter

Published Jointly by the Office of Research Administration and the Research Development Center

AUGUST 1984

VOLUME XIV/NO. 2

## SMALL BUSINESS INNOVATION RESEARCH SEMINAR

Minnesota Project Innovation is sponsoring a seminar for potential applicants for Small Business Innovation Research grants. The seminar will be Thursday, August 23, 1984 at the Registry Hotel, Bloomington.

The Small Business Innovation Development Act directs any federal agency with a Research and Development budget over \$100,000,000, to allocate a portion of that budget for grants for small businesses. Minnesota Project Innovation, a public/private partnership, has been created to assist Minnesota entrepreneurs in securing the SBIR grants. Grants are available for businesses organized for profit with fewer than 500 employees. Faculty may be interested in attending the seminar since they can participate in the SBIR program by either collaborating with an existing small business as a consultant or through a subcontracting arrangement, or by establishing a private business entity.

The seminar will include an overview of the SBIR program and will have workshops on proposal writing, sources of financing, the relationship to big business and will also include a panel discussion with Minnesota grant winners. It will conclude with lunch and a speaker.

The cost of the seminar, including lunch, is \$35.00 before August 17 and \$40.00 after that date. For information and registration materials, contact Kathleen McLaughlin, Executive Director, Minnesota Project Innovation, 375-8084.

## NATIONAL SCIENCE FOUNDATION (NSF) - VISITING PROFESSORSHIPS FOR WOMEN

NSF is accepting applications for 1985 visiting professorships for women. The objectives of this program are to encourage women to develop more productive careers in the science and engineering disciplines; provide greater opportunities for women scientists and engineers; and encourage other women to pursue careers in science and engineering. Applicants must possess a doctorate in a field of research supported by NSF; have independent research experience in the academic, industrial or public sectors; be currently or recently affiliated with a U.S. institution; and not have a salaried position with the host institution at the time of application. For further information, contact Margret Klein, Visiting Professorships for Women Program, National Science Foundation, Washington, DC 20550, (202) 357-7734. Deadline: November 15, 1984.



## NATIONAL SCIENCE FOUNDATION (NSF) - ENGINEERING RESEARCH CENTERS

NSF plans to award \$10 million in grants to establish from three to five engineering research centers next year. The centers are intended to give students and faculty the opportunity to work with industrial engineers and scientists to develop knowledge that will make U.S. industry more competitive in the international market. Each center should focus on a subject area of national importance, involve at least 10% of the institution's graduate students and should have a "substantial impact" on the undergraduate engineering program. Proposal deadline is October 1, 1984. For more information, contact Lewis Mayfield, Office of Interdisciplinary Research, National Science Foundation, Room 1121, 1800 G Street N.W., Washington, DC 20550, (202) 357-9707.

## NATIONAL INSTITUTES OF HEALTH (NIH) ANNOUNCEMENT TO ENCOURAGE DEVELOPMENT OF RESEARCH INVESTIGATORS

NIH has issued announcements to describe some of the mechanisms employed to encourage the development of research investigators. Complete application materials and copies of the following announcements may be obtained from ORA at 373-5925: 1) Dentist Scientist Award; 2) Clinical Investigator Award; 3) Physician Scientist Award; and 4) Research Career Development Award. The following table summarizes the major features of the Clinical Investigator Award, Physician Scientist Award, and Research Career Development Award.

	CLINICAL INVESTIGATOR AWARD	PHYSICIAN SCIENTIST AWARD	RESEARCH CAREER DEVELOPMENT AWARD
Purpose	To prepare clinical investigators who have had some research experience for independent research careers	To provide clinicians who have had essentially no research experience for independent research careers	To support further development of junior faculty by allowing maximum effort to be spent in research
Eligibility	Clinical degree	Clinical degree	Training completed
Clinical Experience	Normally have finished clinical training	May have had only one year clinical training	N/A
Research Experience	Yes	Normally no	Yes
Sponsor Requirement	Yes	Yes	No
Sponsor Salary Support	No	Yes, for Phase I	N/A
Salary Support	Up to \$40,000 plus commensurate fringe benefits	Up to \$40,000 plus commensurate fringe benefits	Up to \$40,000 plus commensurate fringe benefits
Research Support Included	Yes	Yes	No; holder normally holds a research project grant
Duration of Award	5 years	5 years	5 years
Indirect Cost	8%	8%	8%

## NATIONAL INSTITUTE OF JUSTICE (NIJ) - VISITING FELLOWSHIPS PROGRAM

NIJ is accepting applications for the 1985 Visiting Fellowship program. These awards enable qualified criminal justice scholars and practitioners to conduct research and work with Institute staff in the development and implementation of NIJ's research program. Candidates may apply to either the Practitioner or Researcher Fellowship Program. The deadline for applications to either program is November 15, 1984. For further information, contact Visiting Fellowship Program, National Institute of Justice, National Criminal Justice Reference Service, Box 6000, Rockville, MD 20850.

## NATIONAL ENDOWMENT FOR THE ARTS

The National Endowment for the Arts supports programs for American artists and encourages involvement in the arts by private citizens, public and private organizations, states and communities. Listed below are NEA grant program descriptions and the NEA staff contact:

**ARTISTS IN EDUCATION:** This program supports the work of artists with students, teachers, administrators and other members of state agencies and local communities. Contact Joe Prince, Director, Artists in Education, (202) 682-5426.

**DANCE PROGRAM:** This program provides support for professional choreographers, dance companies, and organizations that present dance and the art of mime. Contact Nigel Redden, Director, Dance Program, (202) 682-5435.

**DESIGN ARTS:** This program supports projects that promote excellence in architectural design, urban design and planning, interior and industrial design, graphic design, and fashion design. Contact Director, Design Arts Program, (202) 682-5437.

**EXPANSION ARTS PROGRAM:** This program supports professionally directed arts organizations that reflect the culture of minority, inner-city, rural and tribal communities. Contact Director, Expansion Arts Program, (202) 682-5443.

**FOLK ARTS PROGRAM:** Grants under this program support the traditional arts of groups that share the same ethnic heritage, language, occupation, religion, or geographic area. Contact Director, Folk Arts Program, (202) 682-5449.

**INTER-ARTS PROGRAM:** The Inter-Arts program supports projects that cross the lines of traditional arts disciplines. Contact Renee Levine, Director, Inter-Arts Program, (202) 682-5444.

**LITERATURE PROGRAM:** This program offers scholarships to individual writers and literary translators and provides grants to literary journals, small presses and other organizations that promote books by contemporary writers. Contact Director, Literature Program (202) 682-5451.

**MEDIA ARTS PROGRAM:** This program provides support to individual artists working in film, radio, and television and other media arts. Contact Brian O'Doherty, Director, Media Arts, (202) 682-5452.

**MUSEUMS PROGRAM:** This program funds projects of artistic significance in the museum field. Contact Andrew Oliver, Director, Museums Program, (202) 682-5442.

**MUSIC PROGRAM:** This program provides support for the performance and creation of music. Contact Director, Music Program, (202) 682-5445.

**OPERA-MUSICAL THEATER:** The Opera-Musical Theater program assists all forms of music theater involving voice, from experimental musical theater to operetta, and from grand opera to developing opera forms. Contact Director, Opera-Musical Theater, (202) 682-5447.

**THEATER PROGRAM:** This program supports a wide spectrum of nonprofit professional theaters. Contact Edward Martenson, Director, Theater Program (202) 682-5425.

VISUAL ARTS PROGRAM: The Visual Arts program awards fellowships to visual artists working in a wide range of styles and media. Contact Director, Visual Arts Program, (202) 682-5448.

STATE PROGRAMS: Grants go to assist state agencies and regional groups in carrying out endowment-approved plans for support of the arts. Contact Anthony Turney, Director, State Programs, (202) 682-5429.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

## FEDERAL

THE ORA CONTACT NUMBERS FOR FEDERAL DEADLINE/PROGRAM INFORMATION ARE AS FOLLOWS:

DEPARTMENT OF HEALTH AND HUMAN SERVICES	373-5925
DEPARTMENT OF EDUCATION	373-5925
OTHER FEDERAL AGENCIES	373-2771

## NATIONAL INSTITUTES OF HEALTH

Fogarty International Center, Eastern European Scientist Exchange Program	Open
Fogarty International Center, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open
Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open
Fogarty, Biomedical Research Fellowship Opportunities Abroad:	
Alexander von Humboldt Awards (West Germany)	Open
French NIH and Medical Research Postdoctoral Fellowships (France)	October 1
NIH-French National Center for Scientific Research Exchange (France/U.S.)	October 1
Irish Medical Research Council Postdoctoral Fellowships (Ireland)	October 1
Swedish Medical Research Council Fellowships (Sweden)	October 1
Swiss National Foundation Postdoctoral Fellowships (Switzerland)	October 1
Fogarty International Center, Academy of Finland Postdoctoral Research Fellowships	October 1
Fogarty International Center, Norwegian Research Council for Science and the Humanities Postdoctoral Fellowships	October 1
Fogarty International Center, Israel: Ministry of Health Postdoctoral Research Fellowships	October 1
Fogarty, Senior International Fellowship Program	June 1 1985

NCI, RFA: 84-CA-12, Dietary Markers for Epidemiologic Studies of Cancer	September	15
NCI, Cancer Education Program	October	1
NCI, The NCI Clinical Investigator Award	October	1
NCI, RFA: 84-CA-09, Metabolism and Physiology of Retinoids and Carotenoids in Humans (Letter of intent by 8/10)	October	5
NCI, RFA: 84-CA-14, Involuntary Exposure to Tobacco Smoke and Cancer Risk	October	15
NCI, Biochemistry and Pharmacology Program	November	1
NCI, Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	November	1
NCI, RFA: 84-CA-16, Basic Research in Factors Influencing Nuclear Magnetic Resonance (NMR) Relaxation Times in Biological Tissues	November	15
NCI, Cancer Control Research Unit (Letter of intent by 7/2)	December	3
NEI, Retinal and Choroidal Diseases Research:		
Individual Postdoctoral Fellowships	October	1
Institutional Research Training	October	1
Research Grants	November	1
NEI, Strabismus, Amblyopia and Visual Processing:		
Individual Postdoctoral Fellowships	October	1
Institutional Research Training	October	1
Research Grants	November	1
NEI, Vergence Eye Movement	November	1
NEI, Molecular Research: Strabismus, Amblyopia and Visual Processing	November	1
NEI, Research on Basic Mechanisms of Retinal Phototoxicity	November	1
NEI/NIAID, Immunological Aspects of Ocular Disease	November	1
NHLBI, RFA: NHLBI-84HL-14P, Minority Summer Program in Pulmonary Research	August	15
NHLBI, Clinical Investigator Award	October	1
NHLBI, Transfusion Medicine Academic Award	October	15
NHLBI, Research Training and Development Areas:		
Institutional Research Training Grant	October	1
Individual Postdoctoral Fellowship	October	1
Senior Research Fellowship	October	1
Research Career Development	October	1
Clinical Investigator Award	October	1
Physician Scientist Award	October	1
New Investigator Research Award	November	1
NHLBI/NICHD, Hypertension in Pregnancy	November	1
NHLBI, Surfactants for Perflurochemicals	November	1
NHLBI, Protection of the Immature Myocardium During and Following Cardiac Surgery	November	1
NHLBI, Mechanisms of Biobehaviorally Induced Ventricular Arrhythmias and Sudden Cardiac Death	November	1
NHLBI, Biobehavioral Sequellae of Antihypertensive Therapies	November	1
NHLBI, Research in Sickle Cell Disease: Pain Management in Sickle Cell Disease	November	1
NHLBI, RFA: 84-HL-15-B, Specialized Centers of Research in Thrombosis/National Research and Demonstration Center in Thrombosis	February	15
NIA/NIAID/NIADDK/NICHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	October	1

NIA, Special Emphasis Research Career Award for Social and Behavioral Scientists in Behavioral Geriatrics Research	October	1
NIA/NIAID/NIADDK/NCI/NICHD/NIEHS/NHLBI, Clinical Investigator Award	October	1
NIA, Small Grant Awards for Pilot Projects	October	1
NIA, Health Behaviors and Aging: Behavioral Geriatrics Research	October	1
NIA, Social Environments Influencing Health and Effective Functioning in the Middle and Later Years:		
Individual Postdoctoral Fellowships	October	1
Program Project Grants	October	1
New Investigator Awards	November	1
Research Grants	November	1
NIA, Aging and Visual Perception:		
Program Project Grants	October	1
Individual Postdoctoral Fellowships	October	1
Institutional Research Training	October	1
Research Grants	November	1
New Investigator Awards	November	1
NIADDK/NIA, Research on Anorectal Diseases and Disorders:		
Research Career Development Awards	October	1
Institutional Training Projects	October	1
New Investigator Awards	November	1
Research Projects	November	1
NIADDK/NIAID/NCI/NICHD/NIGMS, Liver Transplantation Research	November	1
NIADDK/NCI/NHLBI/NICHD/NIA/NINCDS, Research on Obesity	November	1
NIAID, RFA: 84-AI-02, Asthma and Allergic Disease Centers and Asthma and Allergic Disease Centers for Immunodermatologic Studies (Letter of intent by 7/15/84)	October	15
NIAID, RFA: AI-84-08, Sexually Transmitted Diseases Research Unit	October	15
NIAID/NINCDS/NIA, Persistent Viral Infections-Alzheimer's Disease	November	1
NICHD, RFA-NIH-NICHD-84-04, Child Care, Fertility, and Female Labor Force Participation	August	15
NICHD, RFA: 84-HD-05, Intrauterine Growth Retardation-Perinatal Emphasis Research Center	October	15
NICHD, RFA: 84-HD-06, Acceptability and Utilization of the Contraceptive Sponge	November	15
NIDR, Small Grant Program	October	1
NIDR, Dentist Scientist Award	October	1
NIDR, Small Grants Program	October	1
NIEHS, New Investigator Research Award Program	November	1
NIGMS, Medical Scientist Training (MST) Program	October	1
NIH, Research Grants, Renewals	October	1
NIH, Research Career Development Awards	October	1
NIH, Individual Postdoctoral Fellowships	October	1
NIH, Institutional Training Programs	October	1
NIH, Support of Meetings (Scientific, U.S.A. or International)	October	1
NIH, DRR, NMR Resources, Biotechnology Resources Program	October	1
NIH, DRR, Intermediate Voltage Electron Microscopy and Image Analysis Resources (Biotechnology Resources Program)	October	1
NIH, Research Grants, New	November	1

NIH, New Investigator Awards	November	1
NINCDS, RFA: 84-NS-01, Multidisciplinary Research Centers for the Study of the Neurological Basis of Disorders of Language, Behavior, and Learning During Infancy and Early Childhood	October	1
NINCDS, Individual Postdoctoral Fellowships: Speech and/or Language Disorders	October	1
NINCDS, Research Grants Related to Basic Mechanisms in Phakomatoses	November	1
NINCDS, Cerebrovascular Disease Related to Stroke	November	1
NINCDS, The Biology of Neurodegenerative Disorders	November	1
NINCDS, Osteosclerosis and Elderly Progressive Deafness	November	1
NINCDS/NIMH, Autism and Related Behavioral Disorders	November	1
NLM, Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	November	1

#### NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award for each: School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
NHLBI, Research Training and Development Areas: Short-Term Research Training: Students in Health Professional Schools	February	1
Special Emphasis Research Career: Diabetes Mellitus	June	1
NHLBI, Preventive Cardiology Academic Award	April	1
NHLBI/NIAMDD, SERCA: Diabetes Mellitus-Cardiovascular, Metabolic and Endocrinologic Aspects	June	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NICHHD/NIAMDD, SERCA: Diabetes-Mellitus-Obstetrical, Perinatal, and Pediatric Aspects	June	1
NIGMS, NIGMS Shared Instrumentation Grants	February	15
NIH, NRSA for Short-Term Training of Students in Health Professional Schools (Limited to one application per health professional school for a given receipt date)	February	1

#### CENTERS FOR DISEASE CONTROL

NIOSH, Occupational Safety and Health, Small Research Grants	October	1
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#### ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, Renewals	October	1
ADAMHA, Individual Postdoctoral Fellowships	October	1
ADAMHA, Institutional Training Grants, NRSA	October	1
ADAMHA, Research Scientist Development/Research Scientist Award	October	1
ADAMHA, Research Grants, New	November	1
ADAMHA, New Investigator Research Award in Prevention	November	1

NIAAA/NIDA/NIMH, Institutional NRSA Training	October	1
NIAAA, Alcohol Research Grants	November	1
NIAAA, New Investigator Research Award	November	1
NIDA, Heroin and Narcotics	November	1
NIDA, Marijuana and Cannabinoids	November	1
NIDA, Cocaine and Stimulants	November	1
NIDA, Sedatives and Tranquilizers	November	1
NIDA, Hallucinogens	November	1
NIDA, Epidemiology Research	November	1
NIDA, Drug Abuse Prevention Research	November	1
NIMH, Rape Centers	October	1
NIMH, Support for Child and Adolescent Mental Health Research and Research Training:		
Individual Postdoctoral Training	October	1
Institutional Research Training	October	1
Research Grants	November	1
NIMH, Geriatric Mental Health Award	November	1
NIMH, Clinical Investigator Award	November	1
NIMH, Research Grants Program	November	1
NIMH, Physician Scientist Award	November	1
NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders	November	1
NIMH/NIDA, Research on Obesity	November	1
NIMH, Prevention Intervention Research Centers	November	1
NIMH/NINCDS, Autism and Related Behavioral Disorders	November	1
NIHM, Clinical Research Centers on Psychopathology of the Elderly	November	1

## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
Grants for Health Services Dissertation Research	November	1

## FOOD AND DRUG ADMINISTRATION

Cooperative Agreements: Studies of Marketed Drugs (Letter of intent by 8/17/84)	October	1
RFA: Clinical Studies of the Effect of Lithium and Phenyton	October	1
Research Grants, Renewals	October	1
Research Grants, New	November	1

## HEALTH CARE FINANCING ADMINISTRATION

Health Financing Research and Demonstration Grants	November	5
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## DEPARTMENT OF EDUCATION

Supplemental Funds Program for Cooperative Education	August	15
NIHR, Spinal Cord Injury Project	August	17
Library Career Training Program	September	18
Graduate and Professional Opportunity Fellowships Program	October	19
Strengthening Research Library Resources Program	November	1

## HEALTH RESOURCES AND SERVICES ADMINISTRATION

1985 WHO Fellowships for Travel/Study Abroad	September 30
Bureau of Health Professions, Grants for Utilization of Research in Nursing Practice, Nursing Services	October 1
Bureau of Health Professions, New Investigator Nursing Research Awards	November 1
Advanced Nurse Training Grants	November 1
Nurse Practitioner Training Grants	November 1
Nurse Special Project Grants	November 1

## DHHS, OFFICE OF CHILD SUPPORT ENFORCEMENT

Child Support Enforcement Research and Demonstration Grants	August 27
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## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

U.S.-Pakistan International Travel Support (NSF 80-49). Scientists of both U.S. and Pakistan are eligible. Contact Dr. Jean Johnson, or Dr. Osman Shinaishin (202) 357-9402	September 1
U.S.-India International Travel Support (NSF 82-86). Scientists of both U.S. and India are eligible. Contact Dr. Jean Johnson or Dr. Osman Shinaishin (202) 357-9402	September 1
U.S.-Scandinavia and The Netherlands Cooperative Science. Joint research, seminars and long-term research visits. Contact Mr. Henryk Uznanski (202) 357-7554	September 1
U.S.-India Exchange of Scientists (NSF 78-66 and 82-86). U.S. senior scientists only submit to NSF; India scientists, to the Indian Council of Scientific Industrial Research. Contact Mr. Eugene Pronko (202) 357-9550 or Dr. Osman Shinaishin (202) 357-9402	September 15
U.S.-New Zealand Cooperative Science (NSF 81-50). All proposals for projects with requested effective dates falling between July 1 and December 31, 1985. Contact Mr. Alan Milsap (202) 357-9537	October 1
U.S.-Australia Cooperative Science (NSF 81-49 Rev. 1/82). Seminar, cooperative research exchange, and no-cost proposals with requested effective dates falling between July 1 and December 31, 1985. Contact Mr. Alan Milsap (202) 357-9537	October 1
U.S.-Israel Binational Science Foundation (BSF). Proposals should not be submitted to NSF; send to BSF in Jerusalem. Contact Dr. R. R. Ronkin (202) 357-7613	November 15



Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Sensory Physiology and Perception. Contact Dr. James Larimer (202) 357-7428	September 1
Economics. Contact Dr. Daniel Newlon, Dr. Lynn Pollnow or Mr. James Slauch, Jr. (202) 357-9675	September 1
Geography and Regional Science. Contact Dr. George Demko (202) 357-7441	September 1
Measurement Methods and Data Resources. Contact Dr. Murray Aborn or Dr. Sara Nerlove (202) 357-7913	September 1
Sociology. Contact Dr. Joanne Miller or Ms. Dorothy Greene (202) 357-7802	September 1
History and Philosophy of Science. Contact Dr. Ronald Overmann or Ms. Bonney Sheahan (202) 357-9677	September 1
Political Science. Contact Dr. Frank Scioli, Jr. or Dr. William Mishler (202) 357-9406	September 1
Law and Social Science. Contact Dr. Felice Levine or Ms. Dorothy Greene (202) 357-9567	September 1
Decision and Management Science. Contact Dr. Trudi Miller (202) 357-7569	September 1
Regulation and Policy Analysis. Contact Dr. Laurence Rosenberg (202) 357-7417	September 1
Science in Developing Countries (NSF 83-58). Contact Sub-Saharan Africa: Mr. Robert Bell (202) 357-9550; South and West Asia: Dr. Osman Shinaishin (202) 357-9402; East Asia: Dr. Gordon Hiebert (202) 357-9537; Latin America and Caribbean: Ms. Christine French (202) 357-9563	September 1
U.S.-East Asia Cooperative Science. Indonesia, Malaysia, Singapore, Thailand (NSF 81-30). Contact Dr. Gordon Hiebert (202) 357-9537	September 1
Ocean Sciences Instrumentation Development. Request the brochure, <i>Proposals for Ocean Sciences Instrumentation Development</i> , from Mr. H. Lawrence Clark (202) 357-7837	September 1
Arctic Research (NSF 82-33). Contact Mr. Guy Guthridge (202) 357-7817	September 1
Biological Instrumentation. Multi-user instrument or instrument development (NSF 83-19). Contact Dr. Arthur Kowalsky (202) 357-7652	September 30
Ecology. Contact Dr. Nancy Stanton (202) 357-9734	October 1
Systematic Biology. Contact Dr. Lloyd Knutson (202) 357-9588	October 1
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka (202) 357-9728	October 1
Doctoral Dissertation Research. Contact Dr. James Edwards (202) 357-9588	October 15

\*NSF Proposals may be submitted for the following programs at any time of the year. It takes approximately six to nine months to process a proposal. Brochures indicated in parentheses may be ordered.

Biological Research Resources. Contact Dr. James Tyler (202) 357-7475

\*

Ecosystem Studies. Contact Dr. Robert Woodmansee  
(202) 357-9596 \*

U.S.-India Cooperative Science (NSF 82-86). Contact  
Dr. Osman Shinaishin, Dr. Jean Johnson (202) 357-9402  
or Mr. Eugene Pronko (202) 357-9550 \*

U.S.-Pakistan Cooperative Science (NSF 80-49). Contact  
Dr. Osman Shinaishin, Dr. Jean Johnson (202) 357-9402  
or Mr. Eugene Pronko (202) 357-9550 \*

U.S.-Sub-Saharan Africa Cooperative Science (NSF 83-58).  
Contact Mr. Robert Bell (202) 357-9550 \*

U.S.-New Zealand Cooperative Science. Letter-proposals  
for short-term visits (limited to airfare and three  
week per diem) to develop cooperative research in  
physical oceanography, air/sea interaction, marine  
geology, geophysics or biology (marine productivity).  
Contact Mr. Alan Milsap (202) 357-9558 \*

Honors Workshops for Precollege Teachers in Science and  
Mathematics (NSF 83-44). Contact Dr. Robert Watson  
(202) 357-7539 or Program Directors: Dr. Alexander  
Barton, Ms. Dorothy Deringer, Dr. Andrew Molnar,  
Dr. Theodore Reid (202) 357-7539 \*

Materials Development for Precollege Science and  
Mathematics (NSF 83-6). Contact Dr. Robert Watson  
(202) 357-7539 or Program Directors: Dr. Alexander  
Barton, Ms. Dorothy Deringer, Dr. Andrew Molnar,  
Dr. Theodore Reid (202) 357-7539 \*

Atomic, Molecular, and Plasma Physics. Contact Dr. Rolf  
Sinclair (202) 357-7997 \*

Elementary Particle Physics. Contact Dr. David Berley  
(202) 357-9575 \*

Gravitational Physics. Contact Dr. Richard Isaacson  
(202) 357-7979 \*

Intermediate Energy Nuclear Physics. Contact Dr. Hall  
Crannell (202) 357-7992 \*

Nuclear Physics. Contact Dr. William Rodney  
(202) 357-7992 \*

Theoretical Physics. Contact Dr. Boris Kayser  
(202) 357-7979 \*

Alternative Biological Resources. Contact Dr. H. Huang  
(202) 357-9782 \*

Industry/University Cooperative Research Projects (NSF  
82-56). Contact Dr. Frederick Betz (202) 357-7785 or  
Mr. Alex Schwarzkopf (202) 357-7527 \*

Industry/University Cooperative Research Centers. Contact  
Mr. Robert Colton or Mr. Alex Schwarzkopf (202) 357-7527 \*

Minority Research Initiation (NSF 80-42). Contact  
Dr. Roosevelt Calbert (202) 357-7350 \*

Research in Information Science and Technology (NSF 81-34).  
Contact the Division of Information Science and  
Technology (202) 357-9572 \*

## NATIONAL ENDOWMENT FOR THE HUMANITIES

The following deadline dates are subject to change and potential applicants are encouraged to contact the appropriate program office. Earliest project date (where applicable) and telephone contact information follow each entry.

Division of Fellowships and Seminars		
Summer Stipends-Summer 1985 (202) 786-0466	October	1
Division of Research Programs		
Reference Works, Tools-July 1985 (202) 786-0210	October	1
Reference Works, Editions-July 1985 (202) 786-0215	October	1
Constitutional Programs (202) 786-0204	November	1
Division of General Programs		
Younger Scholars Program-June 1985 (202) 786-0271	September	15
Humanities Projects in Museums-July 1985 (202) 786-0278	October	31

## NATIONAL ENDOWMENT FOR THE ARTS

Literature (202) 682-5451		
Literary Magazines	August	10
Assistance to Small Presses	September	13

## NATIONAL INSTITUTE OF JUSTICE

Visiting Fellowships Program	November	15
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## NONFEDERAL

THE ORA CONTACT NUMBER FOR NONFEDERAL DEADLINE/PROGRAM INFORMATION IS 373-1970.

American Cancer Society		
Research and Clinical Investigation Grants	November	1
Postdoctoral Fellowships	October	1
Junior Faculty Research Awards	October	1
Faculty Research Awards	October	1
Scholars in Cancer Research	October	1
American Chemical Society - Petroleum Research Fund		
Grants-in-Aid	No Deadline	
American Council of Learned Societies		
Fellowships	October	1
Research Fellowships for Recent Ph.D's	October	1
Fellowships for Studies in Modern Society	October	1
ACLS Ford Fellowships	October	1
Grants for Research in Chinese Studies	November	15
East European Studies	November	15
Grants-in-Aid	December	17
American Heart Association		
Grants-in-Aid	October	1
American Heart Association-Minnesota Affiliate		
Research Fellowships	November	15
Grants-in-Aid	December	15

American Lung Association	
Research Training Fellowships	October 1
Research Grants	November 1
Edward Livingston Trudeau Scholar	October 1
Career Investigator Awards	November 1
American Nurses' Foundation	
Competitive Extramural Grants Program	October 1
American Philosophical Society	
Grants-in-Aid	Various--Contact ORA
Andrew W. Mellon Foundation	No Deadline
Center for Field Research (Earthwatch)	
Latin America Field Research Grants	No Deadline
Corporation for Public Broadcasting	
Program Fund/Open Solicitation	August 17 December 14
Cystic Fibrosis Foundation	
Research Scholar Awards	September 1
New Investigator Research Grants	September 1
Research Grants	September 1
Research Fellowships	September 1
Clinical Fellowships	October 1
Student Traineeships	October 1
Damon Runyon Walter Winchell Cancer Fund	
Fellowship Grants	December 15
Human Cancer-Directed Fellowship Grants	December 15
Dermatology Foundation	
Research Training Fellowships	October 1
Postdoctoral Fellowships	October 1
Grants	October 1
Edna McConnell Clark Foundation	No Deadline
Engineering Foundation	
Pre-proposals	No Deadline
Epilepsy Foundation of America	
Clinical Research Fellowships	September 1
Research Grant Application	September 1
Ford Foundation	No Deadline
Gas Research Foundation	
Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
German Marshall Fund	
Research Fellowships	November 30
Short-Term Travel Awards	No Deadline
Japan/United States Educational Commission	
Japan Fulbright Program	
Recent Graduates	October 31
Senior Scholars and Professionals	September 15
Kellogg Foundation	
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
Leukemia Society of America	
Scholar Program	September 1
Special Fellow Program	September 1
Fellow Program	September 1

March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Social and Behavioral Sciences (Abstract by May 1)	September 1
Basic	October 1
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
General Grants	
Draft Application	October 19
Final Application (for October 19 draft)	November 9
Small Grants	No Deadline
Media Grants	
Final Application	November 9
Minnesota Medical Foundation	September 30
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Association	
Grants-in-Aid	
Request for Application	November 30
Final Application	December 31
National Fund for Medical Education	
Innovative Programs in Medical Education	October 1
Dissemination Mini-Grants	October 1
Fellowships in Medical Education	November 1
National Geographic Society	
Grants-in-Aid	No Deadline
National Kidney Foundation	October 1
Orthopaedic Research and Education Foundation	
Research Grants	September 15
Career Development	September 15
Department Progress Grants	September 15
Traveling Fellowships	September 15
Resident Research Fellowships	February 15
Pharmaceutical Manufacturers Association Foundation	
Faculty Development in Toxicology Pathology	September 1
Faculty Development/Clinical Pharmacology	October 1
Fellowship/Advanced Predoctoral Training in Pharmacology Toxicology	September 15
Puritan Bennett Foundation (formerly Parker B. Frances Foundation)	
Fellowships in Pulmonary Research	September 15
Research Corporation	
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline
Rockefeller Brothers Fund, Inc.	No Deadline
Southeastern Poultry and Egg Association	No Deadline
Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial Instrumentation	
Pre-proposals	No Deadline
University Genetics Company (UGEN)	No Deadline
Villers Foundation	No Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

Office of Research Administration  
Administrative Services Center, 5th Floor  
1919 University Avenue  
University of Minnesota  
St. Paul, Minnesota 55104

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# ORA RDC Newsletter

Published Jointly by the Office of Research Administration and the Research Development Center

SEPTEMBER 1984

VOLUME XIV/NO. 3

## CONFERENCE ON FUNDING OPPORTUNITIES AT NSF

Dr. Margrete Klein, Program Director, Visiting Professorships for Women, and Dr. Joe Danek, Program Director, Research in Undergraduate Institutions, will discuss NSF funding opportunities at a conference to be held Friday, September 28, 1984, from 9:30-12:30 a.m. The conference will be held at the Earl Brown Center, Room 135BD. The program will be of particular interest to young investigators, women in the sciences, graduate students and first time applicants to NSF. The discussion of NSF programs will include a one hour proposal development workshop. Attendance will be limited to 200. Please contact ORA at 376-7682 if you would like to attend.

## COMPUTER PURCHASES THROUGH UNIVERSITY OF MINNESOTA BOOKSTORE

To assure proper processing of costs for computer purchases on sponsored projects made through the University bookstores, the following procedure must be followed. After initial contact with the bookstore to determine item description and cost, a type 06 (requisition) must be prepared and processed through normal University channels. The 06 must include the statement "Internal Use Only - Do Not Issue Purchase Order" and should reflect the appropriate bookstore facility as intended supplier.

Upon receipt of the departmental numbered copy, a type 11 journal voucher, charging the same account and referencing the requisition number, should be prepared in accordance with established bookstore procedures. A photocopy of the numbered requisition should accompany the type 11 to the bookstore.

This procedure will assure that sponsored agency requirements have been fulfilled thus preventing future audit disallowances. It also obligates the funds on the University ledger should the item not be available immediately. Questions concerning computer related purchases on sponsored projects should be directed to the appropriate grant administrator in the Office of Research Administration.

## REMINDER FOR BUDGETING PATIENT CARE COSTS ON DHHS PROJECTS

As a reminder to investigators anticipating patient care costs in their projects, we are publishing the steps to follow to assure proper budgeting in proposals. Investigators who want to review the complete policy for patient care costs should reference *NIH Guide for Grants and Contracts*, Volume 8, No. 9,

July 6, 1979, and *Grants Administration Manual*, Chapter PHS: 6-50. Copies may be obtained from ORA, 373-5925, if necessary.

The correct amount to be budgeted must be determined for both routine and ancillary services performed at University Hospitals. Since the chargeable amount to federal projects is subject to a DHHS negotiation agreement, the rate schedule is outlined below for your use in preparing proposal budgets. This schedule reflects the latest negotiated rates which are for the period ending June 30, 1982 and should be used as provisional rates for future periods, subject to adjustment. The rates for the period ending June 30, 1983 are not yet finalized, however, rate revisions will be published in the ORA Newsletter as they become available.

#### Routine Services

1. Obtain the current amount from the schedule below.
2. Inflate this amount by 10% for each year after 1982.

Routine Services: \$231.93 per day

Special Care Units:	Station 22	\$312.81 per day
	Station 40	\$816.96 per day
	Station 41	\$615.35 per day
	Station 33	\$691.91 per day
	Station 44	\$780.24 per day
	Station 45	\$472.26 per day
	Station 53	\$504.32 per day
	CCU	\$707.05 per day

#### Ancillary Services & Outpatient Services

1. Obtain the correct fee for each service from University Hospitals.
2. If budgeting for a future year, inflate this amount by 10% for each budget period.
3. Adjust this amount according to the percentages listed in the following schedules.

<u>Ancillary Services</u>	<u>Percentage of Standard Fee Schedule Charges</u>
Operating Room	.7802
Delivery & Labor Rooms	1.5408
Anesthesiology	1.0190
Radiology	.8567
Laboratory	.7858
Blood Bank	.8636
Respiratory Therapy	.6647
Rehabilitation	1.9182
Central Sterile	.6206
Pharmacy	.7968
Renal Dialysis	.8660
Others	.7520



## Outpatient Services

Clinic	2.000
Emergency Service	1.7193

It is recommended that the calculation sheet be transmitted to ORA with the proposal for review and verification. The sheet is for internal use only and will not be transmitted to the agency.

Questions concerning the budgetary process should be directed to the appropriate grant administrator, Mary Lou Weiss, Todd Morrison, or Susan Stensland. Questions concerning the rate schedule and/or fees for service should be directed to Joann Kramer or Meredith Wiste at University Hospitals, 376-2180.

### **NSF SEEKS NOMINATIONS FOR TENTH ALAN T. WATERMAN AWARD**

The Alan T. Waterman Award is intended to give recognition to an outstanding young researcher in any field of science, mathematics or engineering and to encourage further high quality research. In addition to a medal, the recipient receives up to \$50,000 per year for up to three years of research or advanced study in the mathematical, physical, medical, biological, engineering, social or other sciences. Candidates must be U.S. citizens and must be 35 years of age or younger, or not more than five years beyond receipt of the Ph.D. degree by December 31 of the year in which nominated. Six copies of each nomination must be received by the Alan T. Waterman Award Committee, National Science Foundation, Washington, DC 20550, by December 31, 1984. Additional information may be obtained by calling the Executive Secretary for the Committee, Mrs. Louis J. Hamaty, at the National Science Foundation, (202) 357-7512.

### **NSF SUPPLEMENTS TO EXISTING GRANTS AND CONTRACTS FOR USE OF SUPERCOMPUTERS**

Supplements for the use of supercomputers (class VI computers) are to be used only for extending and improving research efforts in the general line of work contemplated when the proposal was originally reviewed and approved, although it is expected that modifications of research plans will be necessary to make use of supercomputers. Supplements which are exempted from peer review at the discretion of the cognizant program director may include, as appropriate, funds primarily for travel, local facilities, and communications in a total amount up to \$20,000 or 15% of the total award amount, whichever is greater (amounts larger than this will require peer review). In addition to this dollar amount, an allocation of up to 10 CPU hours will be provided on supercomputer facilities to users, such facilities receiving funding under separate awards. No more than one such supercomputer supplement will normally be made to any award.

### **NASA - THEMATIC MAPPER RESEARCH IN THE EARTH SCIENCES**

The National Aeronautics and Space Administration (NASA) has published an Announcement of Opportunity for Thematic Mapper Research in the Earth Sciences, employing the unique observational capabilities of the Landsat Thematic Mapper (TM). This program will be initiated in 1985 and continued through 1987. Approximately \$5 million is available to support 20 to 30 projects. The purpose of this research program is to develop an improved understanding of surface conditions and processes on the Earth through the analysis and interpretation of TM data. Proposals submitted should identify topical problems in various

aspects of Earth sciences that can be addressed in new and innovative ways through the analysis of orbital TM imagery. Proposals are specifically sought for investigations in the fields of botany, ecology, geology, hydrology, and related Earth science disciplines. Announcement of Opportunity No. AO-OSSA-3-84 may be obtained by calling Dr. Mark Settle, NASA, (202) 453-1720.

### **U.S. DEPARTMENT OF AGRICULTURE FY 1985 COMPETITIVE RESEARCH GRANTS PROGRAM**

The U.S. Department of Agriculture has announced its FY 1985 Competitive Research Grants Program. A copy of the application kit and program announcement may be obtained from ORA by calling 373-2771. Proposals for the various research areas must be submitted (original + 20 copies) through ORA to meet the postmark deadlines shown under the USDA's deadline section of the Newsletter.

### **ROBERT BOSCH FOUNDATION FELLOWSHIPS**

The Robert Bosch Foundation, in cooperation with a West German foundation, has established a fellowship program that offers American professionals in the fields of business administration, economics, journalism, law, public affairs, and political science an opportunity to spend seven months working with government agencies, research institutes, or private businesses in West Germany. In 1985, ten to fifteen fellows will be chosen. Call 373-1970 for further information.

### **CARNEGIE CORPORATION NEW GRANT PROGRAMS**

The Carnegie Corporation has developed four new grant programs to address the problems posed by rapid technological change. These include the avoidance of nuclear war; the education of all Americans in science, technology and the economy; the prevention of damage to children; and the strengthening of human resources in developing countries. In fiscal 1984, Carnegie will fund more than 100 grants under the new programs, one-third of which will go to schools, colleges and universities. The first step in applying is to submit a letter of inquiry that outlines the project proposal, its duration, significance, key people involved, and the cost. For further information, call 373-1970.

### **INSTITUTIONAL RESEARCH GRANT AWARD FROM AMERICAN CANCER SOCIETY**

The University of Minnesota has been awarded a renewal of its Institutional Research Grant from the American Cancer Society (ACS) for 1984-1985. This fund is intended to serve as "seed" money permitting the initiation of promising new projects or novel ideas, especially by junior investigators, in cancer-related research. Encouragement of cancer research may also be facilitated by support of seminars on cancer-related topics, and by graduate student research. The fund is administered by a Dean's Committee of the Medical School with representation from other biologically-oriented colleges. The Committee is now accepting applications for individual grants not to exceed \$7,500 from this fund with a deadline date of November 1, 1984. Instructions and application forms may be obtained from the Dean's Committee for the ACS Institutional Research Grant, Room 421 Masonic Cancer Center, 373-4318.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

### FEDERAL

THE ORA CONTACT NUMBERS FOR FEDERAL DEADLINE/PROGRAM INFORMATION ARE AS FOLLOWS:

DEPARTMENT OF HEALTH AND HUMAN SERVICES	373-5925
DEPARTMENT OF EDUCATION	373-5925
OTHER FEDERAL AGENCIES	373-2771

### NATIONAL INSTITUTES OF HEALTH

Fogarty International Center, Eastern European Scientist Exchange Program	Open
Fogarty International Center, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open
Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open
Fogarty, Biomedical Research Fellowship Opportunities Abroad:	
Alexander von Humboldt Awards (West Germany)	Open
French NIH and Medical Research Postdoctoral Fellowships (France)	October 1
NIH-French National Center for Scientific Research Exchange (France/U.S.)	October 1
Irish Medical Research Council Postdoctoral Fellowships (Ireland)	October 1
Swedish Medical Research Council Fellowships (Sweden)	October 1
Swiss National Foundation Postdoctoral Fellowships (Switzerland)	October 1
Fogarty International Center, Academy of Finland Post-doctoral Research Fellowships	October 1
Fogarty International Center, Norwegian Research Council for Science and the Humanities Postdoctoral Fellowships	October 1
Fogarty International Center, Israel: Ministry of Health Postdoctoral Research Fellowships	October 1
Fogarty, Senior International Fellowship Program	June 1 1985
NCI, RFA: 84-CA-12, Dietary Markers for Epidemiologic Studies of Cancer	September 15
NCI, Cancer Education Program	October 1
NCI, The NCI Clinical Investigator Award	October 1
NCI, RFA: 84-CA-09, Metabolism and Physiology of Retinoids and Carotenoids in Humans (Letter of intent by 8/10)	October 5
NCI, RFA: 84-CA-14, Involuntary Exposure to Tobacco Smoke and Cancer Risk	October 15

NCI/NIADDK/NIA, RFA: 84-CNUR-01: Core Grants for Clinical Nutrition Research Units	October	15
NCI/NIAID/NIADDK/NICHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases:		
Research Career Development	October	1
Research Grants	November	1
NCI, Biochemistry and Pharmacology Program	November	1
NCI, Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	November	1
NCI, RFA: 84-CA-16, Basic Research in Factors Influencing Nuclear Magnetic Resonance (NMR) Relaxation Times in Biological Tissues	November	15
NCI, RFA: 84-CA-13: Reduction in Avoidable Mortality from Cancers (Letter of intent requested by 9/15)	November	15
NCI, RFA: 84-CA-10: The Modification of Eating Behavior and Cancer Prevention (Letter of intent requested by 10/15)	November	15
NCI, RFA: 84-CA-21: Application of Recombinant DNA Technology to Diagnosis of Cancer	November	30
NCI, Cancer Control Research Unit (Letter of intent by 7/2)	December	3
NCI, RFA: 84-CA-22: Cooperative Agreements for National Cooperative Drug Discovery Groups	December	14
NCI, Predoctoral Research Fellowships for Oncology Nurses (Letter of intent by 1/1)	February	1
NEI, Retinal and Choroidal Diseases Research:		
Individual Postdoctoral Fellowships	October	1
Institutional Research Training	October	1
Research Grants	November	1
NEI, Strabismus, Amblyopia and Visual Processing:		
Individual Postdoctoral Fellowships	October	1
Institutional Research Training	October	1
Research Grants	November	1
NEI, Vergence Eye Movement	November	1
NEI, Molecular Research: Strabismus, Amblyopia and Visual Processing	November	1
NEI, Research on Basic Mechanisms of Retinal Phototoxicity	November	1
NEI/NIAID, Immunological Aspects of Ocular Disease	November	1
NHLBI, Clinical Investigator Award	October	1
NHLBI, Transfusion Medicine Academic Award	October	15
NHLBI, Research Training and Development Areas:		
Institutional Research Training Grant	October	1
Individual Postdoctoral Fellowship	October	1
Senior Research Fellowship	October	1
Research Career Development	October	1
Clinical Investigator Award	October	1
Physician Scientist Award	October	1
New Investigator Research Award	November	1
NHLBI/NICHD, Hypertension in Pregnancy	November	1
NHLBI, Surfactants for Perfluorochemicals	November	1
NHLBI, Protection of the Immature Myocardium During and Following Cardiac Surgery	November	1
NHLBI, Mechanisms of Biobehaviorally Induced Ventricular Arrhythmias and Sudden Cardiac Death	November	1
NHLBI, Biobehavioral Sequellae of Antihypertensive Therapies	November	1

NHLBI, Research in Sickle Cell Disease: Pain Management in Sickle Cell Disease	November	1
NHLBI, RFA: 84-HL-15-B, Specialized Centers of Research in Thrombosis/National Research and Demonstration Center in Thrombosis	February	15
NIA/NIAID/NIADDK/NICHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	October	1
NIA, Special Emphasis Research Career Award for Social and Behavioral Scientists in Behavioral Geriatrics Research	October	1
NIA/NIAID/NIADDK/NCI/NICHD/NIEHS/NHLBI, Clinical Investigator Award	October	1
NIA, Small Grant Awards for Pilot Projects	October	1
NIA, Health Behaviors and Aging: Behavioral Geriatrics Research	October	1
NIA, Social Environments Influencing Health and Effective Functioning in the Middle and Later Years:		
Individual Postdoctoral Fellowships	October	1
Program Project Grants	October	1
New Investigator Awards	November	1
Research Grants	November	1
NIA, Aging and Visual Perception:		
Program Project Grants	October	1
Individual Postdoctoral Fellowships	October	1
Institutional Research Training	October	1
Research Grants	November	1
New Investigator Awards	November	1
NIA, RFA-84-AG-03: Alzheimer Disease Research Centers (Letter of intent requested by 10/1)	November	9
NIADDK/NIA, Research on Anorectal Diseases and Disorders:		
Research Career Development Awards	October	1
Institutional Training Projects	October	1
New Investigator Awards	November	1
Research Projects	November	1
NIADDK/NIAID/NCI/NICHD/NIGMS, Liver Transplantation Research	November	1
NIADDK/NCI/NHLBI/NICHD/NIA/NINCDS, Research on Obesity	November	1
NIADDK, RFA: 84-AM-04: Digestive Disease Core Centers	November	16
NIAID, RFA: 84-AI-02, Asthma and Allergic Disease Centers and Asthma and Allergic Disease Centers for Immunodermatologic Studies (Letter of intent by 7/15/84)	October	15
NIAID, RFA: AI-84-08, Sexually Transmitted Diseases Research Unit	October	15
NIAID/NINCDS/NIA, Persistent Viral Infections-Alzheimer's Disease	November	1
NICHD, Physical Activity in Pregnancy	November	1
NICHD, RFA: 84-HD-06, Acceptability and Utilization of the Contraceptive Sponge	November	15
NICHD, RFA-84-HD-07: Normal and Abnormal Limb Development Studies	November	15
NICHD, RFA: 84-HD-05, Intrauterine Growth Retardation-Perinatal Emphasis Research Center "Revised Deadline"	December	1
NIDR, Small Grant Program	October	1
NIDR, Dentist Scientist Award	October	1
NIEHS, New Investigator Research Award Program	November	1
NIGMS, Medical Scientist Training (MST) Program	October	1
NIH, Research Grants, Renewals	October	1

NIH, Research Career Development Awards	October	1
NIH, Individual Postdoctoral Fellowships	October	1
NIH, Institutional Training Programs	October	1
NIH, Support of Meetings (Scientific, U.S.A. or International)	October	1
NIH, DRR, NMR Resources, Biotechnology Resources Program	October	1
NIH, DRR, Intermediate Voltage Electron Microscopy and Image Analysis Resources (Biotechnology Resources Program)	October	1
NIH, Research Grants, New	November	1
NIH, New Investigator Awards	November	1
NINCDS, RFA: 84-NS-01, Multidisciplinary Research Centers for the Study of the Neurological Basis of Disorders of Language, Behavior, and Learning During Infancy and Early Childhood	October	1
NINCDS, Individual Postdoctoral Fellowships: Speech and/or Language Disorders	October	1
NINCDS, Clinical Investigator Development Award	October	1
NINCDS, Research Grants Related to Basic Mechanisms in Phakomatoses	November	1
NINCDS, Cerebrovascular Disease Related to Stroke	November	1
NINCDS, The Biology of Neurodegenerative Disorders	November	1
NINCDS, Osteosclerosis and Elderly Progressive Deafness	November	1
NINCDS/NIMH, Autism and Related Behavioral Disorders	November	1
NINCDS, Research Grants on Status Epilepticus	November	1
NLM, Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	November	1

#### NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award <u>for each</u> : School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
NHLBI, Research Training and Development Areas: Short-Term Research Training: Students in Health Professional Schools	February	1
Special Emphasis Research Career: Diabetes Mellitus	June	1
NHLBI, Preventive Cardiology Academic Award	April	1
NHLBI/NIAMDD, SERCA: Diabetes Mellitus-Cardiovascular, Metabolic and Endocrinologic Aspects	June	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NICHHD/NIAMDD, SERCA: Diabetes-Mellitus-Obstetrical, Perinatal, and Pediatric Aspects	June	1
NIGMS, NIGMS Shared Instrumentation Grants	February	15
NIH, NRSA for Short-Term Training of Students in Health Professional Schools (Limited to one application per health professional school for a given receipt date)	February	1

## CENTERS FOR DISEASE CONTROL

NIOSH, Occupational Safety and Health, Small Research Grants October 1

## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program Open  
ADAMHA, Research Grants, Renewals October 1  
ADAMHA, Individual Postdoctoral Fellowships October 1  
ADAMHA, Institutional Training Grants, NRSA October 1  
ADAMHA, Research Scientist Development/Research Scientist Award October 1  
ADAMHA/NIH/NCHSR, Research on Digestive Diseases:  
Research Career Development October 1  
Research Grants November 1  
ADAMHA, Research Grants, New November 1  
ADAMHA, New Investigator Research Award in Prevention November 1  
NIAAAA/NIDA/NIMH, Institutional NRSA Training October 1  
NIAAAA, Alcohol Research Grants November 1  
NIAAAA, New Investigator Research Award November 1  
NIDA, Heroin and Narcotics November 1  
NIDA, Marijuana and Cannabinoids November 1  
NIDA, Cocaine and Stimulants November 1  
NIDA, Sedatives and Tranquilizers November 1  
NIDA, Hallucinogens November 1  
NIDA, Epidemiology Research November 1  
NIDA, Drug Abuse Prevention Research November 1  
NIMH, Rape Centers October 1  
NIMH, Support for Child and Adolescent Mental Health  
Research and Research Training:  
Individual Postdoctoral Training October 1  
Institutional Research Training October 1  
Research Grants November 1  
NIMH, Child and Adolescent Mental Health Research and  
Research Training:  
Institutional Training Grants October 1  
Research Grants November 1  
NIMH, Geriatric Mental Health Award November 1  
NIMH, Clinical Investigator Award November 1  
NIMH, Research Grants Program November 1  
NIMH, Physician Scientist Award November 1  
NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders November 1  
NIMH/NIDA, Research on Obesity November 1  
NIMH, Prevention Intervention Research Centers November 1  
NIMH/NINCDS, Autism and Related Behavioral Disorders November 1  
NIMH, Clinical Research Centers on Psychopathology of the Elderly November 1

## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application) Open  
Grants for Health Services Dissertation Research November 1

## FOOD AND DRUG ADMINISTRATION

Cooperative Agreements: Studies of Marketed Drugs (Letter of intent by 8/17/84)	October	1
Research Grants, Renewals	October	1
Research Grants, New	November	1
Clinical Studies of the Effect of Lithium and Phenytoin in Violent Patients	November	1

## HEALTH CARE FINANCING ADMINISTRATION

Health Financing Research and Demonstration Grants (November 5 deadline canceled)	February	4
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## HEALTH RESOURCES AND SERVICES ADMINISTRATION

1985 WHO Fellowships for Travel/Study Abroad	September	30
Bureau of Health Professions, Grants for Utilization of Research in Nursing Practice, Nursing Services	October	1
Bureau of Health Professions, New Investigator Nursing Research Awards	November	1
Advanced Nurse Training Grants	November	1
Nurse Practitioner Training Grants	November	1
Nurse Special Project Grants	November	1

## NATIONAL INSTITUTE OF EDUCATION

Grants to Plan for Regional Educational Laboratories	September	26
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## DEPARTMENT OF EDUCATION

Endowment Grant Program	September	10
Library Career Training Program	September	18
Bilingual Education Act - Demonstration Projects	October	11
Fulbright Seminars Abroad Program	October	15
Graduate and Professional Opportunity Fellowships Program	October	19
Strengthening Research Library Resources Program	November	1

## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

U.S.-New Zealand Cooperative Science (NSF 81-50). All proposals for projects with requested effective dates falling between July 1 and December 31, 1985. Contact Mr. Alan Milsap (202) 357-9537	October	1
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U.S.-Australia Cooperative Science (NSF 81-49 Rev. 1/82). Seminar, cooperative research exchange, and no-cost proposals with requested effective dates falling between July 1 and December 31, 1985. Contact Mr. Alan Milsap (202) 357-9537	October	1
U.S.-Israel Binational Science Foundation (BSF). Proposals should not be submitted to NSF; send to BSF in Jerusalem. Contact Dr. R. R. Ronkin (202) 357-7613	November	15

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Ecology. Contact Dr. Nancy Stanton (202) 357-9734	October	1
Systematic Biology. Contact Dr. Lloyd Knutson (202) 357-9588	October	1
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka (202) 357-9728	October	1
Doctoral Dissertation Research. Contact Dr. James Edwards (202) 357-9588	October	15

## NATIONAL ENDOWMENT FOR THE HUMANITIES

The following deadline dates are subject to change and potential applicants are encouraged to contact the appropriate program office. Earliest project date (where applicable) and telephone contact information follow each entry.

Division of Fellowships and Seminars		
Summer Stipends-Summer 1985 (202) 786-0466	October	1
Division of Research Programs		
Reference Works, Tools-July 1985 (202) 786-0210	October	1
Reference Works, Editions-July 1985 (202) 786-0215	October	1
Constitutional Programs (202) 786-0204	November	1
Division of General Programs		
Younger Scholars Program-June 1985 (202) 786-0271	September	15
Humanities Projects in Museums-July 1985 (202) 786-0278	October	31

## NATIONAL ENDOWMENT FOR THE ARTS

Literature (202) 682-5451		
Assistance to Small Presses	September	13

## NATIONAL INSTITUTE OF JUSTICE

Visiting Fellowships Program	November	15
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## U.S. DEPARTMENT OF AGRICULTURE

Postmark deadlines for proposals submitted for USDA's FY 1985 Competitive Research Grants Program are as follows:

Genetic Mechanisms for Crop Improvement	November	1
Biological Stress on Plants - Plant Pathology and Weeds	November	1
Photosynthesis	November	15
Biological Stress on Plants - Entomology and Nematology	December	3
Biological Nitrogen Fixation	December	17
Human Requirements for Nutrients	December	17

## NONFEDERAL

THE ORA CONTACT NUMBER FOR NONFEDERAL DEADLINE/PROGRAM INFORMATION IS 373-1970.

American Cancer Society	
Research and Clinical Investigation Grants	November 1
Postdoctoral Fellowships	October 1
Junior Faculty Research Awards	October 1
Faculty Research Awards	October 1
Scholars in Cancer Research	October 1
American Chemical Society - Petroleum Research Fund	
Grants-in-Aid	No Deadline
American Council of Learned Societies	
Fellowships	October 1
Research Fellowships for Recent Ph.D's	October 1
Fellowships for Studies in Modern Society	October 1
ACLS Ford Fellowships	October 1
Grants for Research in Chinese Studies	November 15
East European Studies	November 15
Grants-in-Aid	December 17
American Heart Association	
Grants-in-Aid	October 1
American Heart Association-Minnesota Affiliate	
Research Fellowships	November 15
Grants-in-Aid	December 15
American Heart Association-San Francisco Chapter	
Supplemental Funds for Research Sabbatical Positions	November 30
American Lung Association	
Research Training Fellowships	October 1
Research Grants	November 1
Edward Livingston Trudeau Scholar	October 1
Career Investigator Awards	November 1
American Nurses' Foundation	
Competitive Extramural Grants Program	October 1
American Philosophical Society	
Grants-in-Aid	Various--Contact ORA
Andrew W. Mellon Foundation	No Deadline
Bosch Foundation Fellowship Program	No Deadline
Carnegie Corporation	No Deadline
Center for Field Research (Earthwatch)	
Latin America Field Research Grants	No Deadline
Corporation for Public Broadcasting	
Program Fund/Open Solicitation	December 14
Cystic Fibrosis Foundation	
Clinical Fellowships	October 1
Student Traineeships	October 1
Damon Runyon Walter Winchell Cancer Fund	
Fellowship Grants	December 15
Human Cancer-Directed Fellowship Grants	December 15
Dermatology Foundation	
Research Training Fellowships	October 1
Postdoctoral Fellowships	October 1
Grants	October 1
Distilled Spirits Council	November 1
Edna McConnell Clark Foundation	No Deadline
Engineering Foundation	
Pre-proposals	No Deadline
Ford Foundation	No Deadline

Gas Research Foundation	
Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
German Marshall Fund	
Research Fellowships	November 30
Short-Term Travel Awards	No Deadline
Japan/United States Educational Commission	
Japan Fulbright Program	
Recent Graduates	October 31
Senior Scholars and Professionals	September 15
Kellogg Foundation	
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Basic	October 1
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
General Grants	
Draft Application	October 19
Final Application (for October 19 draft)	November 9
Small Grants	No Deadline
Media Grants	
Final Application	November 9
Minnesota Medical Foundation	September 30
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Association	
Grants-in-Aid	
Request for Application	November 30
Final Application	December 31
National Fund for Medical Education	
Innovative Programs in Medical Education	October 1
Dissemination Mini-Grants	October 1
Fellowships in Medical Education	November 1
National Geographic Society	
Grants-in-Aid	No Deadline
National Kidney Foundation	
Research Fellowships	October 1
Orthopaedic Research and Education Foundation	
Research Grants	September 15
Career Development	September 15
Department Progress Grants	September 15
Traveling Fellowships	September 15
Resident Research Fellowships	February 15
Paralyzed Veterans of America	
Research Proposals	January 1
Design Development Proposals	January 1

Pharmaceutical Manufacturers Association Foundation		
Development Grants/Clinical Pharmacology Units	January	1
Faulty Development/Clinical Pharmacology Units	October	1
Fellowships/Advanced Predoctoral Training in Pharmacology Toxicology	September	15
Medical Student Research Fellowships/Pharmacology	January	15
Fellowship Awards in Pharmacology/Morphology	January	15
Puritan Bennett Foundation (formerly Parker B. Frances Foundation)		
Fellowships in Pulmonary Research	September	15
Research Corporation (Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No	Deadline
Rockefeller Brothers Fund, Inc.	No	Deadline
Scottish Rite Schizophrenia Research Program		
Dissertation Research Fellowship Awards		
Preapplication Letter	February	1
Final Application	March	1
Research Grant Awards		
Preapplication Letter	January	1
Final Application	March	1
Southeastern Poultry and Egg Association	No	Deadline
Technicon Instruments Corporation		
Grants for Research in Biomedical and Industrial Instrumentation		
Pre-proposals	No	Deadline
Tinker Foundation		
Field Research in Portugal, Spain or Latin America	No	Deadline
University Genetics Company (UGEN)	No	Deadline
Villers Foundation	No	Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

# ORA/RDC Newsletter

MKC  
5/1/84

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## NEW INDIRECT COST AGREEMENT RATES

The University has recently negotiated an indirect cost agreement for FY 1985 with our cognizant agency, the Department of Health and Human Services. The date of the agreement is September 11, 1984 and is effective July 1, 1984.

	On-campus	Off-campus
Campus Rates		
Research	41.0	22.7
Instruction (Training)	82.6	57.2
Other Sponsored Agreements	25.2	14.8
Hormel Institute	57.9	N/A
S.A.F.H.L.	96.6	N/A

These rates are to be applied to total direct costs (including fringe benefits) less capital equipment, stipends and tuition, patient care and subcontracts. A subcontract is defined as an agreement with an outside party to do work that is scientific or technical in nature where the work is substantive to the objective of the project. Examples of agreements that would not be considered subcontracts are: maintenance agreements, consulting agreements, and editorial or typing service agreements.

The off-campus rate will be used when a person is off campus for 90 consecutive days or longer. When a project is both on- and off-campus, the TDC rate to be applied will be determined by the proportion of direct salaries and wages of the on- and off-campus personnel. If 50% or more of the direct salaries and wages are paid to on-campus personnel, the on-campus rate will be applied to the entire project, otherwise the off-campus rate will be applied to the entire project.

Questions as to which rate is applicable to a particular grant or contract should be referred to the appropriate administrator in the Office of Research Administration.

## BA FORM 22 FILING REQUIREMENT CLARIFICATION

The June 1984 *ORA/RDC Newsletter* informed faculty of a change in processing BA Form 22, "Animal Usage Form," for all *new* projects. This is to clarify that

submission of BA Form 22 is also required for *renewal* proposals involving the use of warm blooded animals. In addition, any substantial change in the work scope of a project, which would affect the use of animals, requires the submission of a new BA Form 22. ORA will continue to monitor the receipt of BA Form 22 on all new and renewal proposals. Questions concerning the form, however, should be directed to Research Animal Resources.

## NATIONAL SCIENCE FOUNDATION (NSF) FELLOWSHIPS

NATO Postdoctoral Fellowships are available for advanced study in a country that is either a member of the North Atlantic Treaty Organization or a neighboring country that cooperates with NATO. Fellowships will be awarded for advanced study in the physical, social and behavioral sciences. Further information may be obtained from the Directorate for Science and Engineering Education, Office of Research Career Development, (202) 357-7536. Application deadline: November 2.

Minority Graduate Fellowships are available to students of minority groups underrepresented in the sciences and engineering who have been accepted to or who are enrolled in a program of advanced study in science or engineering. Application is limited to students with no more than 20 semester or 30 quarter hours of post-baccalaureate study in science or engineering at the time of application. For further information contact the Fellowship Office, National Research Council, 2101 Constitution Avenue N.W., Washington, DC 20418, (202) 334-2872. Application deadline: November 21.

Mathematical Sciences Fellowships are available for postdoctoral research in the mathematical sciences. These awards will be offered to U.S. citizens or nationals who have earned a doctoral degree in one of the mathematical sciences, who have no more than five years of postdoctoral experience and who have not previously received a NSF postdoctoral fellowship. Further information may be obtained from Dr. Alvin Thaler, Division of Mathematical Sciences, (202) 357-9764. Application deadline: November 15.

Graduate Fellowships are available for study leading to a master's or doctoral degree at any non-profit U.S. or foreign institution of higher education. These awards will be made to graduate students in the sciences and engineering. For further information, contact the Fellowship Office, National Research Council, 2101 Constitution Avenue N.W., Washington, DC 20418, (202) 334-2872. Application deadline: November 21.

## NSF - POSTDOCTORAL EXCHANGE AWARDS

The Division of International Programs has established an exchange award program for U.S. junior and senior scientists interested in conducting research at foreign institutions of excellence in industrialized countries. Tenure abroad may range from 6 to 15 months. For more information, contact Mr. Henryk Uznanski, Division of International Programs, (202) 357-7554. Deadline: November 1, 1984.

## NSF - RESEARCH OPPORTUNITIES FOR WOMEN (ROW)

Research Opportunities for Women (ROW) provides opportunities for women scientists and engineers to undertake independent research by supporting research grants for women who have not previously been principal investigators

or who are reentering research careers. Research proposals submitted for the 1985 ROW competition must be postmarked no later than January 15, 1985. Information on program objectives, eligibility requirements and proposal preparation is contained in a program announcement (NSF 84-42) which may be obtained from the Program Director, Research Opportunities for Women, Division of Research Initiation and Improvement, (202) 357-7734 or by calling ORA at 373-2771.

#### **NSF - RESEARCH AT THE INTERFACE OF CHEMISTRY AND BIOLOGY**

NSF is undertaking an initiative to stimulate collaborative research at the interface between chemistry and biology. This initiative will include both the application of new chemical approaches to problems in biology and the development of areas of chemistry emerging from the advances in modern biology. Four divisions of the NSF will cooperate in the support of interdisciplinary, collaborative research projects at the interface of chemistry and biology. Copies of the guidelines are available from the participating divisions: Dr. Mary Clutter, Division of Cellular Biosciences (202) 357-7905; Dr. James Brown, Division of Molecular Biosciences (202) 357-7900; Dr. Richard Louttit, Division of Behavioral and Neural Sciences (202) 357-7564; and Dr. Arthur Findeis, Division of Chemistry (202) 357-7947.

#### **THE MCKNIGHT FOUNDATION**

The McKnight Foundation announces the continuation of its support of a program to stimulate research in neuroscience, especially as it pertains to memory and, ultimately, to a clearer understanding of diseases affecting memory and its biological substrates. The number of available Scholars Awards has increased to five per year. Applicants should have an M.D. or Ph.D. and have completed not less than two nor more than five years of postdoctoral research, exclusive of clinical training. Call 373-1970 for further information.

#### **CENTER FOR ADVANCED STUDY IN THE VISUAL ARTS - FELLOWSHIPS**

The Center for Advanced Study in the Visual Arts, a part of the National Gallery of Art, has announced its Senior Fellowship Program for academic year 1985-1986. Applications will be considered for Senior Fellowships, Visiting Senior Fellowships and Associates from scholars for study in the history, theory, and criticism of the visual arts of any geographical area and of any period. Applications are also solicited from scholars in other disciplines whose work examines physical objects or has implication for the analysis and criticism of physical form. Fellowships are limited to those who have held the Ph.D. for five years or more or who possess a record of professional accomplishment at the time of application. For a descriptive brochure and application forms, contact the Center for Advanced Study in the Visual Arts, National Gallery of Art, Washington, DC 20565, (202) 842-6480. The application deadlines and award periods are as follows: Senior Fellowships and Associate Appointments (for academic year 1985-1986) deadline: October 15, 1984; Visiting Senior Fellowships and Associate Appointments (for award period September 16, 1985-February 28, 1986) deadline: March 21, 1985; (for award period March 1, 1986-August 31, 1986) deadline: September 21, 1985.

## **CONGRESSIONAL SCIENCE FELLOWSHIP PROGRAM**

The Society for Research in Child Development has announced a fellowship opportunity for scientists in fields related to child development. Congressional Science Fellows function as special legislative assistants on the staffs of individual Senators or Representatives or on the staffs of Congressional committees. Fellows prepare position papers, analyze background information, and assist Members in hearings, committee meetings and floor debate. Fellows draft legislation, meet with representatives of interest groups, write speeches, and correspond with constituents. The fellowship year begins September 1, 1985, and the appointment is for 12 months. Six Fellows are chosen each year by the Committee on Child Development and Social Policy of the Society for Research in Child Development. Applicants must be scientists or professionals at the postdoctoral level from the social, behavioral, or health sciences concerned with children. Stipends are determined in accordance with experience, and will range from \$23,500 to approximately \$29,000. For further information, contact Dr. Barbara A. Everett, Director, Washington Liaison Office, Society for Research in Child Development, 100 North Carolina Avenue S.E., Suite 1, Washington, DC 20003, (202) 543-9582. The deadline for receipt of application materials is November 1, 1984.

## **NATIONAL PROGRAM OF SCHOLARLY EXCHANGES WITH THE PEOPLE'S REPUBLIC OF CHINA**

This program offers support for visits to China by scholars and advanced graduate students in the sciences, engineering, social sciences, and humanities. The Graduate and Research Programs support American scholarly interests by providing opportunities for study and research at Chinese universities and research institutes. The Visiting Scholar Exchange Program, which supports both Chinese and American scholars, is designed to enhance intellectual dialogue and make significant contributions to academic exchanges in a given discipline. Application is open to U.S. citizens and permanent residents regardless of national origin, race, sex or religious affiliation. For further information, contact the Committee on Scholarly Communication with the People's Republic of China, National Academy of Sciences, 2101 Constitution Avenue N.W., Washington, DC 20418. Postmark/ mailing deadline for application to Graduate and Research Programs is October 6, 1984. Deadline for Visiting Scholar Exchange Program is October 29, 1984.

## **UNIVERSITY PROFESSORS POSTDOCTORAL FELLOWSHIP IN THE HUMANITIES**

The University Professors Program at Boston University has announced a University Professors Postdoctoral Fellowship in the Humanities for 1985-86. The purpose of the Fellowship is to broaden the scholar's competence in an interdisciplinary way or to give that scholar the opportunity to retrain for a nonacademic career which may require a strong background in the humanities. The appointment as Fellow, considered as equivalent to the rank of assistant professor, is for one year without the possibility of renewal. Under exceptional circumstances one-semester fellowships may be considered. The stipend for 1985-86 will be \$15,000 plus normal fringe benefits. Applicants for the fellowship must be American citizens who have received the Ph.D. prior to July 1, 1985, but not before 1982. Information about application procedures may be obtained by writing or calling the Director, University Professors Program, Boston University, 745 Commonwealth Avenue, Boston MA 02215, (617) 353-4020. Completed applications for 1985-86 must be in the office of the Director by March 1, 1985.



## INSTITUTIONAL RESEARCH GRANT AWARD FROM AMERICAN CANCER SOCIETY

The University of Minnesota has been awarded a renewal of its Institutional Research Grant from the American Cancer Society (ACS) for 1984-1985. This fund is intended to serve as "seed" money permitting the initiation of promising new projects or novel ideas, especially by junior investigators, in cancer-related research. Encouragement of cancer research may also be facilitated by support of seminars on cancer-related topics, and by graduate student research. The fund is administered by a Dean's Committee of the Medical School with representation from other biologically-oriented colleges. The Committee is now accepting applications for individual grants not to exceed \$7,500 from this fund with a deadline date of November 1, 1984. Instructions and application forms may be obtained from the Dean's Committee for the ACS Institutional Research Grant, Room 421 Masonic Cancer Center, 373-4318.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

## FEDERAL

THE ORA CONTACT NUMBERS FOR FEDERAL DEADLINE/PROGRAM INFORMATION ARE AS FOLLOWS:

DEPARTMENT OF HEALTH AND HUMAN SERVICES	373-5925
DEPARTMENT OF EDUCATION	373-5925
OTHER FEDERAL AGENCIES	373-2771

## NATIONAL INSTITUTES OF HEALTH

Fogarty International Center, Eastern European Scientist Exchange Program	Open
Fogarty International Center, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open
Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open
Fogarty, Biomedical Research Fellowship Opportunities Abroad:	
Alexander von Humboldt Awards (West Germany)	Open
Fogarty, Senior International Fellowship Program	June 1 1985
NCI, RFA: 84-CA-14, Involuntary Exposure to Tobacco Smoke and Cancer Risk	October 15
NCI/NIADDK/NIA, RFA: 84-CNURU-01, Core Grants for Clinical Nutrition Research Units	October 15
NCI, Biochemistry and Pharmacology Program	November 1
NCI, Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	November 1

NCI, Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	November	1
NCI/NIAID/NIADDK/NICHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases:		
Research Grants	November	1
Research Career Development	February	1
NCI, RFA: 84-CA-16, Basic Research in Factors Influencing Nuclear Magnetic Resonance (NMR) Relaxation Times in Biological Tissues	November	15
NCI, RFA: 84-CA-13, Reduction in Avoidable Mortality from Cancers (Letter of intent requested by 9/15)	November	15
NCI, RFA: 84-CA-10, The Modification of Eating Behavior and Cancer Prevention (Letter of intent requested by 10/15)	November	15
NCI, RFA: 84-CA-19, Studies of Bovine Leukemia	November	15
NCI, RFA: 84-CA-27, Studies of Human T Cell Leukemia/Lymphoma Virus Types I & II (HTLV-I, HTLV-II)	November	15
NCI, RFA: 84-CA-21, Application of Recombinant DNA Technology to Diagnosis of Cancer	November	30
NCI, Cancer Control Research Unit (Letter of intent by 7/2)	December	3
NCI, RFA: 84-CA-18, Selected Cancer Prevention Clinical Trials	December	10
NCI, RFA: 84-CA-17, The Physiochemical Effects of Dietary Fiber in Humans (Letter of intent by 10/16/84)	December	11
NCI, RFA: 84-CA-22, Cooperative Agreements for National Cooperative Drug Discovery Groups	December	14
NCI, RFA: 84-CA-24, Use of Oncogene Related Products for Cancer Therapy	December	14
NCI, RFA: 84-CA-25, Innovative Approaches to Development of Cancer Chemopreventive Agents	December	15
NCI, RFA: 84-CA-26, Mutagens in Human Foods	December	15
NCI, Cancer Education Program	February	1
NCI, The NCI Clinical Investigator Award	February	1
NCI, Predoctoral Research Fellowships for Oncology Nurses (Letter of intent by 1/1)	February	1
NEI, Molecular Research: Strabismus, Amblyopia and Visual Processing	November	1
NEI, Research on Basic Mechanisms of Retinal Phototoxicity	November	1
NEI/NIAID, Immunological Aspects of Ocular Disease	November	1
NEI, Vergence Eye Movement	November	1
NEI, Retinal and Choroidal Diseases Research:		
Research Grants	November	1
Individual Postdoctoral Fellowships	February	1
Institutional Research Training	February	1
NEI, Strabismus, Amblyopia and Visual Processing:		
Research Grants	November	1
Individual Postdoctoral Fellowships	February	1
Institutional Research Training	February	1
NHLBI, Transfusion Medicine Academic Award	October	15
NHLBI/NICHD, Hypertension in Pregnancy	November	1
NHLBI, Surfactants for Perflurochemicals	November	1
NHLBI, Protection of the Immature Myocardium During and Following Cardiac Surgery	November	1
NHLBI, Mechanisms of Biobehaviorally Induced Ventricular Arrhythmias and Sudden Cardiac Death	November	1

NHLBI, Biobehavioral Sequellae of Antihypertensive Therapies	November	1
NHLBI, Research in Sickle Cell Disease: Pain Management in Sickle Cell Disease	November	1
NHLBI, Research Training and Development Areas:		
New Investigator Research Award	November	1
Institutional Research Training Grant	February	1
Individual Postdoctoral Fellowship	February	1
Senior Research Fellowship	February	1
Research Career Development	February	1
Clinical Investigator Award	February	1
Physician Scientist Award	February	1
NHLBI, Clinical Investigator Award	February	1
NHLBI, RFA: 84-HL-15-B, Specialized Centers of Research in Thrombosis/National Research and Demonstration Center in Thrombosis	February	15
NIA, Geriatric Leadership Academic Award	November	1
NIA, Social Environments Influencing Health and Effective Functioning in the Middle and Later Years:		
New Investigator Awards	November	1
Research Grants	November	1
NIA, Aging and Visual Perception:		
Research Grants	November	1
New Investigator Awards	November	1
Program Project Grants	February	1
Individual Postdoctoral Fellowships	February	1
Institutional Research Training	February	1
NIA, RFA: 84-AG-03, Alzheimer Disease Research Centers (Letter of intent requested by 10/1)	November	9
NIA/NIAID/NIADDK/NICHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	February	1
NIA/NIAID/NIADDK/NCI/NICHD/NIEHS/NHLBI, Clinical Investigator Award	February	1
NIA, Small Grant Awards for Pilot Projects	February	1
NIA, Health Behaviors and Aging: Behavioral Geriatrics Research	February	1
NIA, Complementary Training Awards for Research on Aging	February	1
NIADDK/NIAID/NCI/NICHD/NIGMS, Liver Transplantation Research	November	1
NIADDK/NCI/NHLBI/NICHD/NIA/NINCDS, Research on Obesity	November	1
NIADDK/NICHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	November	1
NIADDK/NIA, Research on Anorectal Diseases and Disorders:		
New Investigator Awards	November	1
Research Projects	November	1
Research Career Development Awards	February	1
Institutional Training Projects	February	1
NIADDK, RFA: 84-AM-04, Digestive Disease Core Centers	November	16
NIADDK/NIAID/NICHD, RFA: 84-AM-05, Auto-Immunity Related to Endocrine Diseases (Letter of intent by 11/15/84)	December	3
NIADDK/NIA/NIAID/NICHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	March	1
NIAID, RFA: 84-AI-02, Asthma and Allergic Disease Centers and Asthma and Allergic Disease Centers for Immunodermatologic Studies (Letter of intent by 7/15/84)	October	15
NIAID, RFA: AI-84-08, Sexually Transmitted Diseases Research Unit	October	15

NIAID/NINCDS/NIA, Persistent Viral Infections-Alzheimer's Disease	November	1
NIAID, Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginitis)		
New Grants	November	1
New Investigator	November	1
Career Development	February	1
Physician Scientist	February	1
Clinical Investigator	February	1
Postdoctoral Fellow	February	1
NICHD, Physical Activity in Pregnancy	November	1
NICHD, RFA: 84-HD-06, Acceptability and Utilization of the Contraceptive Sponge	November	15
NICHD, RFA: 84-HD-07, Normal and Abnormal Limb Development Studies	November	15
NICHD, RFA: 84-HD-05, Intrauterine Growth Retardation-Perinatal Emphasis Research Center "Revised Deadline"	December	1
NIDR, Small Grant Program	February	1
NIDR, Dentist Scientist Award	February	1
NIEHS, New Investigator Research Award Program	November	1
NIH, Research Grants, New	November	1
NIH, New Investigator Awards	November	1
NIH, Research Grants, Renewals	February	1
NIH, Research Career Development Awards	February	1
NIH, Individual Postdoctoral Fellowships	February	1
NIH, Institutional Training Programs	February	1
NIH, Support of Meetings (Scientific, U.S.A. or International)	February	1
NIH, DRR, NMR Resources, Biotechnology Resources Program	February	1
NINCDS, Research Grants Related to Basic Mechanisms in Phakomatoses	November	1
NINCDS, Cerebrovascular Disease Related to Stroke	November	1
NINCDS, The Biology of Neurodegenerative Disorders	November	1
NINCDS, Osteosclerosis and Elderly Progressive Deafness	November	1
NINCDS/NIMH, Autism and Related Behavioral Disorders	November	1
NINCDS, Research Grants on Status Epilepticus	November	1
NINCDS, Individual Postdoctoral Fellowships: Speech and/or Language Disorders	February	1
NINCDS, Clinical Investigator Development Award	February	1
NLM, Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	November	1

#### NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award <u>for each</u> : School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
NHLBI, Research Training and Development Areas:		
Short-Term Research Training: Students in Health Professional Schools	February	1
Special Emphasis Research Career: Diabetes Mellitus	June	1
NHLBI, Preventive Cardiology Academic Award	April	1

NHLBI/NIAMDD, SERCA: Diabetes Mellitus-Cardiovascular, Metabolic and Endocrinologic Aspects	June	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NICHD/NIAMDD, SERCA: Diabetes-Mellitus-Obstetrical, Perinatal, and Pediatric Aspects	June	1
NIGMS, NIGMS Shared Instrumentation Grants	February	15
NIH, NRSA for Short-Term Training of Students in Health Professional Schools (Limited to one application per health professional school for a given receipt date)	February	1

## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, New	November	1
ADAMHA, New Investigator Research Award in Prevention	November	1
ADAMHA/NIH/NCHSR, Research on Digestive Diseases: Research Grants	November	1
Research Career Development	February	1
ADAMHA, Research Grants, Renewals	February	1
ADAMHA, Individual Postdoctoral Fellowships	February	1
ADAMHA, Institutional Training Grants, NRSA	February	1
ADAMHA, Research Scientist Development/Research Scientist Award	February	1
NIAAA, Alcohol Research Grants	November	1
NIAAA, New Investigator Research Award	November	1
NIAAA/NIDA/NIMH, Institutional NRSA Training	February	1
NIDA, Heroin and Narcotics	November	1
NIDA, Marijuana and Cannabinoids	November	1
NIDA, Cocaine and Stimulants	November	1
NIDA, Sedatives and Tranquilizers	November	1
NIDA, Hallucinogens	November	1
NIDA, Epidemiology Research	November	1
NIDA, Drug Abuse Prevention Research	November	1
NIMH, Geriatric Mental Health Award	November	1
NIMH, Clinical Investigator Award	November	1
NIMH, Research Grants Program	November	1
NIMH, Physician Scientist Award	November	1
NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders	November	1
NIMH/NIDA, Research on Obesity	November	1
NIMH, Prevention Intervention Research Centers	November	1
NIMH/NINCDS, Autism and Related Behavioral Disorders	November	1
NIMH, Clinical Research Centers on Psychopathology of the Elderly	November	1
NIMH, Support for Child and Adolescent Mental Health Research and Research Training:		
Research Grants	November	1
Individual Postdoctoral Training	February	1
Institutional Research Training	February	1
NIMH, Child and Adolescent Mental Health Research and Research Training:		
Research Grants	November	1
Institutional Training Grants	February	1
NIMH, Rape Centers	February	1

## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
Grants for Health Services Dissertation Research	November	1

## FOOD AND DRUG ADMINISTRATION

Research Grants, New	November	1
Clinical Studies of the Effect of Lithium and Phenytoin in Violent Patients	November	1
Research Grants, Renewals	February	1

## HEALTH CARE FINANCING ADMINISTRATION

Health Financing Research and Demonstration Grants (November 5 deadline canceled)	February	4
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## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Bureau of Health Professions, New Investigator Nursing Research Awards	November	1
Advanced Nurse Training Grants	November	1
Nurse Practitioner Training Grants	November	1
Nurse Special Project Grants	November	1
Health Careers Opportunity Program	November	2

## DEPARTMENT OF EDUCATION

Bilingual Education Act - Demonstration Projects	October	11
Fulbright Seminars Abroad Program	October	15
Graduate and Professional Opportunity Fellowships Program	October	19
Strengthening Research Library Resources Program	November	1
Training Personnel for the Education of the Handicapped	November	9

## OFFICE OF HUMAN DEVELOPMENT

OHD Services Discretionary Grants (PREAPPLICATIONS)		
Child Welfare Services Training	October	17
Gerontological Training	October	17
Demonstrations of National Relevance	October	17

## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

U.S.-Latin America and Caribbean Cooperative Science (NSF 80-52). Contact Ms. Christine French (202) 357-9563	November	1
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U.S.-Venezuela Cooperative Science (NSF 80-52). Contact Ms. Christine French (202) 357-9563	November	1
Postdoctoral Research Fellowships in Environmental Biology. Contact Dr. William Riemer (202) 357-7332	November	1
U.S.-Mexico Cooperative Science (NSF 80-52). Contact Ms. Christine French (202) 357-9563	November	1
U.S.-Brazil Cooperative Science (NSF 80-52). Contact Ms. Christine French (202) 357-9563	November	1
U.S.-Argentina Cooperative Science (NSF 80-52). Contact Ms. Christine French (202) 357-9563	November	1
Postdoctoral Exchange Awards for Scientific Research in Industrialized Countries. Awards for research in the sciences and engineering at institutions in industrialized countries outside the U.S., including all Western European countries, Australia, Japan and New Zealand. Contact Mr. Henryk Uznanski (202) 357-7554	November	1
NATO Postdoctoral Fellowships in Science (NSF 84-38). Contact Dr. Michael Frodyma (202) 357-7536	November	2
U.S.-Israel Binational Science Foundation (BSF). Proposals should not be submitted to NSF; send to BSF in Jerusalem. Contact Dr. R. R. Ronkin (202) 357-7613	November	15
Mathematical Sciences Postdoctoral Research Fellowships. For applications or information contact the Special Projects Program, Division of Mathematical Sciences (202) 357-9764	November	15
Mathematical Sciences Regional Conference Proposals. Contact the Special Projects Program, Division of Mathematical Sciences (202) 357-9764 or Dr. Marcia Sward, Mathematical Association of America, 1529 18th Street N.W., Washington, DC 20036 (202) 387-5200	November	15
NSF Visiting Professorships for Women (NSF 84-36). Contact Dr. Margrete Klein (202) 357-7350	November	15
Graduate Fellowships. Contact Dr. Douglas Chapin (202) 357-7536. For copies of the announcement and application materials, contact the Fellowship Office, National Research Council, 2101 Constitution Avenue N.W., Washington, DC 20418 (202) 334-2872	November	21
Minority Graduate Fellowships. Contact Dr. Douglas Chapin (202) 357-7536. For copies of the announcement and application materials, contact the Fellowship Office, National Research Council, 2101 Constitution Avenue N.W., Washington, DC 20418 (202) 334-2872	November	21
Archaeometry Competition (NSF 84-9). Contact Dr. John Yellen (202) 357-7804	November	30

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Biochemistry (NSF 83-96). Contact Dr. Arnold Revzin or Ms. Estella Engel (202) 357-7945	November	1
Biophysics (NSF 83-96). Contact Dr. Arthur Kowalsky or Ms. Brenda Flam (202) 357-7777	November	1
Cellular Physiology (NSF 83-96) Contact Dr. Maryanna Henkart or Dr. Barbara Zain (202) 357-7377	November	1
Cell Biology (NSF 8-96). Contact Dr. Gertrude Kasbekar (202) 357-7474	November	1

Developmental Biology (NSF 83-96). Contact Dr. Donald Fosket or Dr. Jane Peterson (202) 357-7989	November	1
Prokaryotic Genetics (NSF 83-96). Contact Dr. Philip Harriman or Dr. Rolf Benzinger (202) 357-9687	November	1
Regulatory Biology (NSF 83-96). Contact Dr. Elvira Doman (202) 357-7975	November	1
Eukaryotic Genetics (NSF 83-96). Contact Dr. DeLill Nasser (202) 357-9687	November	1
Computer Research (NSF 83-57). Contact Mr. Kent Curtis (202) 357-9747	November	1
U.S.-Eastern Europe Cooperative Science (NSF 81-27). Proposals for cooperative research seminars and workshops, and scientific visits for planning purposes. Contact Ms. Deborah Wince (202) 357-9516	November	1
Ethics and Values in Science and Technology (NSF 83-62). Preliminary proposals. Contact Dr. Rachelle Hollander (202) 357-7552	November	1
Theoretical Computer Science. Contact Dr. John Cherniavsky (202) 357-7349	November	1
Software Systems Science. Contact Dr. Thomas Keenan (202) 357-7375	November	1
Software Engineering. Contact Dr. Bruce Barnes (202) 357-7345	November	1
Intelligent Systems. Contact Dr. Su-Shing Chen (202) 357-7345	November	1
Computer Systems Design. Contact Dr. John Lehmann (202) 357-7349	November	1
Special Projects. Contact Mr. Lawrence Oliver (202) 357-7375	November	1
Ceramics and Electronic Materials. All new and renewal proposals. Contact Dr. Louis Toth (202) 357-9790	November	1
Metallurgy Program. All new and renewal proposals. Contact Dr. Robert Reynik (202) 357-9790	November	1
Polymers Program. All new and renewal proposals. Contact Dr. Paul Painter (202) 357-9790	November	1
Condensed Matter Theory. Contact Dr. Joseph Serene (202) 357-9737	November	1
Low Temperature Physics. Contact Dr. Donald Liebenberg (202) 357-9787	November	1
Solid State Chemistry. Contact Dr. Fred Stafford (202) 357-9787	November	1
Solid State Physics. Contact Dr. John Van Zytveld (202) 357-9737	November	1

\*NSF Proposals may be submitted for the following programs at any time of the year. It takes approximately six to nine months to process a proposal. Brochures indicated in parentheses may be ordered.

Biological Research Resources. Contact Dr. James Tyler (202) 357-7475	*
Ecosystem Studies. Contact Dr. Robert Woodmansee (202) 357-9596	*
U.S.-India Cooperative Science (NSF 82-86). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402	*
U.S.-Pakistan Cooperative Science (NSF 80-49). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402	*



U.S.-Sub-Saharan Africa Cooperative Science (NSF 83-58).  
Contact Mr. Robert Bell (202) 357-9550 \*

U.S.-New Zealand Cooperative Science. Letter-proposals  
for short-term visits (limited to airfare and three  
week per diem) to develop cooperative research in  
physical oceanography, air/sea interaction, marine  
geology, geophysics or biology (marine productivity).  
Contact Mr. Alan Milsap (202) 357-9558 \*

Honors Workshops for Precollege Teachers in Science and  
Mathematics (NSF 83-44). Contact Dr. Robert Watson  
(202) 357-7539 or Program Directors: Dr. Alexander  
Barton, Ms. Dorothy Deringer, Dr. Andrew Molnar,  
Dr. Theodore Reid (202) 357-7539 \*

Materials Development for Precollege Science and  
Mathematics (NSF 83-6). Contact Dr. Robert Watson  
(202) 357-7539 or Program Directors: Dr. Alexander  
Barton, Ms. Dorothy Deringer, Dr. Andrew Molnar,  
Dr. Theodore Reid (202) 357-7539 \*

Atomic, Molecular, and Plasma Physics. Contact Dr. Rolf  
Sinclair (202) 357-7997 \*

Elementary Particle Physics. Contact Dr. David Berley  
(202) 357-9575 \*

Gravitational Physics. Contact Dr. Richard Isaacson  
(202) 357-7979 \*

Intermediate Energy Nuclear Physics. Contact Dr. Peter  
Riley (202) 357-7992 \*

Nuclear Physics. Contact Dr. William Rodney  
(202) 357-7992 \*

Theoretical Physics. Contact Dr. Boris Kayser  
(202) 357-7979 \*

Alternative Biological Resources. Contact Dr. H. Huang  
(202) 357-9782 \*

Industry/University Cooperative Research Projects (NSF  
82-56). Contact Dr. Frederick Betz (202) 357-7785 or  
Mr. Alex Schwarzkopf (202) 357-7527 \*

Industry/University Cooperative Research Centers. Contact  
Mr. Robert Colton or Mr. Alex Schwarzkopf (202) 357-7527 \*

Minority Research Initiation (NSF 80-42). Contact  
Dr. Roosevelt Calbert (202) 357-7350 \*

Research in Information Science and Technology (NSF 81-34).  
Contact Dr. Charles Brownstein (202) 357-9572 \*

U.S.-China Cooperative Science (NSF 82-50). Contact  
Dr. Pierre Perrolle or Mr. Alexander DeAngelis  
(202) 357-7393 \*

Instrumentation for Material Research (NSF 82-79).  
Contact Dr. William Oosterhuis (202) 357-7570 \*

National Facilities. Contact Dr. Dean Mitchell  
(202) 357-9791 \*

Materials Research Laboratory Program. Contact  
Dr. Adriaan de Graaf (202) 357-9791 \*

Materials Research Group. Contact Dr. W. Lance Haworth  
(202) 357-9791 \*

Classical Analysis. Contact Dr. John Ryff (202) 357-9764 \*

Modern Analysis. Contact Dr. Frank Gilfeather  
(202) 357-9764 \*

Geometric Analysis. Contact Dr. Richard Millman  
(202) 357-9764 \*

Topology and Foundations. Contact Dr. Ralph Krause (202) 357-9764	*
Algebra and Number Theory. Contact Dr. Bernard McDonald (202) 357-9764	*
Applied Mathematics. Contact Dr. Mel Ciment (202) 357-9764	*
Statistics and Probability. Contact Dr. Peter Purdue (202) 357-9764	*
Special Projects. Contact Dr. Alvin Thaler (202) 357-9764	*
Anthropology. Doctoral Dissertation proposals. Contact Ms. Mary Greene (202) 357-7804	*
Precollege Education in Science and Mathematics (NSF 83-97). Contact Dr. Robert Watson (202) 357-7539	*
Research in Undergraduate Institutions (RUI) (NSF 83-79). Contact appropriate disciplinary program in NSF for more specific target dates and number of copies of proposals needed, or contact Dr. Joseph Danek (202) 357-7456	*

## NATIONAL ENDOWMENT FOR THE HUMANITIES

The following deadline dates are subject to change and potential applicants are encouraged to contact the appropriate program office. Earliest project date (where applicable) and telephone contact information follow each entry.

Division of Research Programs Constitutional Programs (202) 786-0204	November 1
Division of General Programs Humanities Projects in Museums-July 1985 (202) 786-0278	October 31

## NATIONAL INSTITUTE OF JUSTICE

Visiting Fellowships Program	November 15
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## U.S. DEPARTMENT OF AGRICULTURE

Postmark deadlines for proposals submitted for USDA's FY 1985 Competitive Research Grants Program are as follows:

Genetic Mechanisms for Crop Improvement	November 1
Biological Stress on Plants - Plant Pathology and Weeds	November 1
Photosynthesis	November 15
Biological Stress on Plants - Entomology and Nematology	December 3
Biological Nitrogen Fixation	December 17
Human Requirements for Nutrients	December 17

## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts Senior Fellowships and Associates (For academic year 1985-1986)	October 15
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Visiting Senior Fellowships and Associates

(For 9/16/85-2/28/86)

(For 3/1/86-8/31/86)

March 21

September 21

**NONFEDERAL**

THE ORA CONTACT NUMBER FOR NONFEDERAL DEADLINE/PROGRAM INFORMATION IS 373-1970.

American Cancer Society	
Research and Clinical Investigation Grants	November 1
American Chemical Society - Petroleum Research Fund	
Grants-in-Aid	No Deadline
American Council of Learned Societies	
Grants for Research in Chinese Studies	November 15
East European Studies	November 15
Grants-in-Aid	December 17
American Heart Association-Minnesota Affiliate	
Research Fellowships	November 15
Grants-in-Aid	December 15
American Heart Association-San Francisco Chapter	
Supplemental Funds for Research Sabbatical Positions	November 30
American Lung Association	
Research Grants	November 1
Career Investigator Awards	November 1
American Philosophical Society	
Grants-in-Aid	Various--Contact ORA
American-Scandinavian Foundation	
Grants and Fellowships	November 1
Andrew W. Mellon Foundation	No Deadline
Bosch Foundation Fellowship Program	No Deadline
Boston University	
University Professors Postdoctoral Fellowship	March 1
Carnegie Corporation	No Deadline
Center for Field Research (Earthwatch)	
Latin America Field Research Grants	No Deadline
Committee on Scholarly Communication with the People's	
Republic of China	
Graduate and Research Programs (Postmark Deadline)	October 6
Visiting Scholars Exchange Program	October 29
Corporation for Public Broadcasting	
Program Fund/Open Solicitation	December 14
Damon Runyon Walter Winchell Cancer Fund	
Fellowship Grants	December 15
Human Cancer-Directed Fellowship Grants	December 15
Distilled Spirits Council of the United States	
Grants-in-Aid for Research	November 1
Edna McConnell Clark Foundation	No Deadline
Engineering Foundation	
Research Initiation Grants	December 1
Pre-proposals	No Deadline
Ford Foundation	No Deadline
Gas Research Foundation	
Telephone contact or letter of inquiry prior to	
submission of formal proposal	No Deadline

German Marshall Fund	
Research Fellowships	November 30
Short-Term Travel Awards	No Deadline
International Society of Arboriculture	December 1
Japan/United States Educational Commission	
Japan Fulbright Program	
Recent Graduates	October 31
Senior Scholars and Professionals	September 15
Kellogg Foundation	
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Mathers Charitable Foundation	Continuous
McKnight Foundation	
Scholars Award	January 2
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
General Grants	
Draft Application	October 19
Final Application (for October 19 draft)	November 9
Small Grants	No Deadline
Media Grants	
Final Application	November 9
Minnesota Medical Foundation	December 30
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Association	
Grants-in-Aid	
Request for Application	November 30
Final Application	December 31
National Foundation for Ileitis and Colitis	February 1
National Fund for Medical Education	
Fellowships in Medical Education	November 1
National Geographic Society	
Grants-in-Aid	No Deadline
National Multiple Sclerosis Society	
Research Grants	February 1
Postdoctoral Fellowships	February 1
Junior Faculty Awards	February 1
National Pork Producers Council	December 15
Orthopaedic Research and Education Foundation	
Resident Research Fellowships	February 15
Paralyzed Veterans of America	
Research Proposals	January 1
Design Development Proposals	January 1
Pharmaceutical Manufacturers Association Foundation	
Development Grants/Clinical Pharmacology Units	January 1
Medical Student Research Fellowships/Pharmacology	January 15
Fellowship Awards in Pharmacology/Morphology	January 15
Research Corporation	
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline
Rockefeller Brothers Fund, Inc.	No Deadline

Scottish Rite Schizophrenia Research Program		
Dissertation Research Fellowship Awards		
Preapplication Letter	February	1
Final Application	March	1
Research Grant Awards		
Preapplication Letter	January	1
Final Application	March	1
Society for Research in Child Development		
Congressional Science Fellowship Program	November	1
Southeastern Poultry and Egg Association	No	Deadline
Technicon Instruments Corporation		
Grants for Research in Biomedical and Industrial		
Instrumentation		
Pre-proposals	No	Deadline
Tinker Foundation		
Field Research in Portugal, Spain or Latin America	No	Deadline
University Genetics Company (UGEN)	No	Deadline
Villers Foundation	No	Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

Office of Research Administration  
Administrative Services Center, 5th Floor  
919 University Avenue  
University of Minnesota  
St. Paul, Minnesota 55104

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# ORA RDC Newsletter

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VOLUME XIV/NO. 5

## REMINDER - PROJECT EXPENDITURES

Notification was provided in past years of concerns expressed by Federal agencies with respect to charges for books, periodicals, and subscriptions. While we are certain that expenditures of this nature are for the direct performance of the project objectives, we remind you that it is essential that expenditure documents contain a brief statement of benefit to the project being charged. Documents which lack complete justification cannot be accepted and will be delayed and/or returned to the originating department for additional justification to support the charge.

## REMINDER - DOCUMENTATION REQUIREMENTS FOR TRAVEL CHARGED TO NATIONAL INSTITUTES OF HEALTH (NIH) SPONSORED PROJECTS, INCLUDING TRAVEL BY NATIONAL RESEARCH SERVICE AWARDEES (NRSA'S)

The following information is provided to clarify the documentation requirements necessary to support travel expenditures charged against NIH sponsored projects, including travel on these projects by NRSA recipients. The NIH has provided the following definition with respect to the allowability of these expenditures. "Travel--allowable where such travel will provide direct benefit to the project being supported, including attendance at meetings by project staff." Accordingly, travel expenditures can be incurred only by individuals who have worked on the project, and the grantee's record must clearly document the benefit of the travel to the project charged, including documentation that the traveler was a member of the project staff. Therefore, it is necessary that travel authorizations and expenditure documents contain adequate justification which supports the travel as being beneficial to the performance of the project. In the event that the individual is not a regular employee, i.e. covered by the effort certification system, such as NRSA trainees, the travel document must also include a statement regarding the relationship of the traveler to the project. There must be documentation to support this fact either by a reference in the application that was funded by NIH, or in the event such information was not included in the application, a letter to the Office of Research Administration (ORA) explaining the relationship of the traveler to the project. Questions regarding this procedure should be referred to the appropriate administrator in ORA.

## REMINDER - SIGNATURE REQUIREMENTS FOR NIH GRANT APPLICATIONS

This notice is both a reminder and a restatement of the NIH policy published in the August 14, 1970 issue of the *NIH Guide for Grants and Contracts* concerning applicant signature requirements for all NIH grant applications. To be valid and acceptable for review, an application must have been properly executed by: (1) the proposed Principal Investigator and Program Director and (2) by an individual authorized to act for the applicant organization and to assume the obligations imposed by the requirements and conditions for any grant, including the applicable Federal Regulations. "Per" signatures are not acceptable.

## REVIEW PROCEDURES - NIH GRANT APPLICATIONS

### SENDING ADDITIONAL MATERIALS FOR NIH GRANT APPLICATION:

If additional materials or corrections must be sent before the application has been reviewed by a study section or an initial review group, the materials should be sent directly to the Executive Secretary of the group that will be reviewing the application. If the identity of the Executive Secretary or study section is unknown, the material should be sent to: Referral Section, Division of Research Grants, NIH, Westwood Building - Room 248, Bethesda, MD 20205.

### CONTACTING NIH STAFF AFTER THE APPLICATION HAS BEEN REVIEWED:

After the application has been reviewed by a study section or an initial review group, the appropriate program staff member of the funding Bureau, Institute, or Division should be contacted for any information about the application. That person--not the Executive Secretary of the study section--is the appropriate source of information after the first level of review has been completed.

## CELL LINE AVAILABLE FOR HYBRIDOMA RESEARCHERS

The University has been offered a license for the Taggart murine parental cell line (*Science*, 1984, 219:1228-1230). The particular advantages claimed for this cell line over others available are: (1) reduction of hybridization attempts required to produce the desired antibody; (2) reduction of screening, since significantly more hybridomas are produced per plate; and (3) reduction of spontaneous loss of antibody production. The Division of Patents and Licensing would like to determine how many laboratories are interested in using this line to construct hybridomas and whether the research is likely to result in commercially valuable antibodies. Please send your comments or suggests to Kathleen R. Terry, Patents and Licensing, 570 Administrative Services Center, 1919 University Avenue, St. Paul, MN 55104. For more information on the reference cited above, call 373-2609.

## NATIONAL SCIENCE FOUNDATION (NSF) MINORITY RESEARCH INITIATION PROGRAM

The objectives of the Minority Research Initiation Program are to encourage the establishment of independent research projects by minority scientists and engineers and to increase participation of minority researchers in all of the Foundation's programs. Proposals may be submitted by minority scientists and engineers who hold full-time faculty or research-related positions at U.S. colleges and universities and who have not previously received Federal research support as faculty members. The term "minority" as used in this program



announcement refers to those ethnic minority groups who are significantly underrepresented in the scientific career pool, i.e., Blacks, Native Americans, Mexican-Americans/Chicanos, Puerto Ricans and Alaskan Natives (Eskimo or Aleut). There is no limit on the amount that may be requested for these awards, which provide up to three years of support, but based on prior award history, individual awards have averaged less than \$25,000 per year. Inquiries should be addressed to Dr. Roosevelt Calbert, Program Director, Minority Research Initiation Program, NSF, Washington, DC 20550, (202) 357-7350. Copies of the program announcement are available from ORA, 373-2771.

#### **NSF - PRECOLLEGE SCIENCE AND MATHEMATICS EDUCATION PROGRAM**

This program is designed to initiate and support programs to strengthen science education at all levels. NSF plans to focus its support in the following areas: (1) research in teaching and learning and the development of instructional materials in science, mathematics and technology for students and teachers; (2) activities that provide incentives for teachers and develop their capabilities; and (3) special activities aimed at increasing informal (out-of-school) science, mathematics and technology education, providing information about successful approaches and monitoring the condition of precollege science, mathematics and technology education. There is no deadline for submission of these proposals. Copies of the program announcement are available from ORA, 373-2771.

#### **NSF - MULTI-USER CHEMICAL INSTRUMENTATION PROPOSALS**

The NSF, through its Division of Chemistry, provides funds to assist the scientific community in acquiring multi-user instrumentation essential for conducting research in chemistry. The funds requested should be for the *total* cost of the instrument with the understanding that an institutional contribution (typically around 50%) will be negotiated if the proposal receives favorable review. Instrumentation needed to support research either underway or planned by at least two major faculty users in the department qualifies for this program. This program is intended to support the purchase of instrumentation costing \$50,000 or more. The departmental chairperson is the principal investigator. For a copy of the program announcement, contact ORA, 373-2771.

#### **NSF - CONSULTANT PAYMENTS UNDER NSF AWARDS**

Effective January 8, 1984, the maximum allowable daily rate of pay for consultants under NSF awards has increased from \$245 to \$252. This is exclusive of indirect costs, travel per diem, clerical services, vacation, fringe benefits and supplies.

#### **NSF - EXCESS EQUIPMENT**

All University grantees of NSF are eligible to acquire Federal excess property (equipment no longer needed by a Federal agency). Investigators having a current NSF grant may request the authority to screen excess property from Ms. Olliphant, Division of Administrative Services, NSF, (202) 357-7414.

## **MINNESOTA SEA GRANT INSTITUTE CALL FOR PROPOSALS**

The University of Minnesota Sea Grant Institute is currently soliciting preproposals for the 1985-87 grant biennium. Preliminary, one-page proposals will be accepted until November 21, 1984. Preproposals will be accepted in the areas of Lake Superior fisheries, recreational use of Lake Superior, water safety, coastal and lake environmental problems, marine biochemicals, policy studies on water management, and marine education and training, including course development. Preproposals which pass the preliminary screening must be developed into full proposals by December 21, 1984. Final proposals are then selected based on outside reviews. More detailed information and preproposal forms are available from the Minnesota Sea Grant Office, 116 Classroom-Office Building, St. Paul Campus. If you have questions, please call Director Donald McNaught at 373-1708.

## **DELTA SOCIETY GRANT SUPPORT**

The Delta Society is a nonprofit, tax-exempt international educational, research and service resource on the relationships between people, animals and environment. The Society promotes research on human-animal interactions, sponsors conferences and workshops, and distributes educational materials on the use of animals in companionship and therapy programs. A number of grants of up to \$10,000 will be offered; a lesser number of grants of up to \$50,000 will be awarded. For further information, call 373-1970.

## **PEW MEMORIAL TRUST GRANT OPPORTUNITIES**

The Pew Memorial Trust awards grants through four major program areas: education, health, culture and human services. Nearly half of the grant-making budget is allocated to education grants. After listening to the concerns of representatives from the higher education community, staff at the Pew Memorial Trust have further identified critical areas of support and are expanding their grant making in those areas. They include graduate level humanities studies, purchase of scientific instrumentation, computer applications and training, improving campus libraries, access to higher education for students from economically disadvantaged backgrounds, teacher quality, and the connection between secondary schools and higher education institutions. For further information, call 373-1970.

## **FACULTY DEVELOPMENT POSITIONS ABROAD**

The American Institute for Foreign Study is currently accepting applications from qualified faculty to participate in 1985 Summer Programs in Europe and Asia. Faculty must accompany students whom they enroll (one free place--expense paid travel and lodging--is given with every six or seven students). Three to twelve week programs of study take place at a variety of universities in Europe, the Soviet Union and China. Courses are in all major disciplines. American faculty are not required to teach and thus have free time to pursue their own study or research. For further information, call 373-1970.

## **FELLOWSHIP IN CHINESE STUDIES**

The Wang Institute of Graduate Studies has announced its 1985-86 Fellowship in Chinese Studies. The Fellowship is designed to support full-time research, to

be conducted during the 1985-86 academic year, on any period or area of Chinese Studies. Applications are invited from scholars whose research in the humanistic or social sciences will contribute significantly to a deeper understanding of Chinese society, history or culture. Additional requirements include a doctoral degree in any relevant academic discipline at the time of application; knowledge of China through academic study; and proficiency in Chinese language and/or in a relevant foreign language. A limited number of Fellowships of up to \$25,000 will be awarded. For further information, call 373-1970.

#### COMPUTER GRANTS AVAILABLE FROM APPLE COMPUTER INC. EDUCATION FOUNDATION

Apple Computer Inc.'s Education Foundation is asking educators to submit proposals for grants of Macintosh and Apple II computers under its "Wheels for the Mind" donation campaign. The company will choose the 15 best proposals and deliver equipment to schools by the start of the next school year. In the past, Apple has given computers to help improve the writing skills of students, for example, and to create a local historical database. The projects should not be for computer literacy, but for using computers as tools in accomplishing other educational goals. For further information, call 373-1970.

#### OFFICE OF INTERNATIONAL PROGRAMS DEADLINE INFORMATION

The Office of International Programs (OIP) has information, including deadline dates, on major faculty/student fellowship and grant programs which support international activities. For further information, please contact the OIP, 373-3793.

#### SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

#### FEDERAL

THE ORA CONTACT NUMBERS FOR FEDERAL DEADLINE/PROGRAM INFORMATION ARE AS FOLLOWS:

DEPARTMENT OF HEALTH AND HUMAN SERVICES	373-5925
DEPARTMENT OF EDUCATION	373-5925
OTHER FEDERAL AGENCIES	373-2771

#### NATIONAL INSTITUTES OF HEALTH

Fogarty International Center, Eastern European Scientist Exchange Program	Open
Fogarty International Center, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open

Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
Fogarty, Biomedical Research Fellowship Opportunities Abroad:		
Alexander von Humboldt Awards (West Germany)	Open	
Fogarty, Senior International Fellowship Program	June	1
NCI, Biochemistry and Pharmacology Program	March	1
NCI, Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	March	1
NCI, Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	March	1
NCI, RFA: 84-CA-16, Basic Research in Factors Influencing Nuclear Magnetic Resonance (NMR) Relaxation Times in Biological Tissues	November	15
NCI, RFA: 84-CA-13, Reduction in Avoidable Mortality from Cancers (Letter of intent requested by 9/15)	November	15
NCI, RFA: 84-CA-10, The Modification of Eating Behavior and Cancer Prevention (Letter of intent requested by 10/15)	November	15
NCI, RFA: 84-CA-19, Studies of Bovine Leukemia	November	15
NCI, RFA: 84-CA-27, Studies of Human T Cell Leukemia/ Lymphona Virus Types I & II (HTLV-I, HTLV-II)	November	15
NCI, RFA: 84-CA-21, Application of Recombinant DNA Technology to Diagnosis of Cancer	November	30
NCI, Cancer Control Research Unit (Letter of intent by 7/2)	December	3
NCI, RFA: 84-CA-18, Selected Cancer Prevention Clinical Trials	December	10
NCI, RFA: 84-CA-17, The Physiochemical Effects of Dietary Fiber in Humans (Letter of intent by 10/16/84)	December	11
NCI, RFA: 84-CA-22, Cooperative Agreements for National Cooperative Drug Discovery Groups	December	14
NCI, RFA: 84-CA-24, Use of Oncogene Related Products for Cancer Therapy	December	14
NCI, RFA: 84-CA-25, Innovative Approaches to Development of Cancer Chemopreventive Agents	December	15
NCI, RFA: 84-CA-26, Mutagens in Human Foods	December	15
NCI, Cancer Education Program	February	1
NCI, The NCI Clinical Investigator Award	February	1
NCI, Predoctoral Research Fellowships for Oncology Nurses (Letter of intent by 1/1)	February	1
NCI/NIAID/NIADDK/NICHHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases:		
Research Career Development	February	1
Research Grants	March	1
NEI, Small Grants Program for Pilot Projects	February	1
NEI, Retinal and Choroidal Diseases Research:		
Individual Postdoctoral Fellowships	February	1
Institutional Research Training	February	1
Research Grants	March	1
NEI, Strabismus, Amblyopia and Visual Processing:		
Individual Postdoctoral Fellowships	February	1
Institutional Research Training	February	1
Research Grants	March	1

NEI, Research on Basic Mechanisms of Retinal Phototoxicity	March	1
NEI/NIAID, Immunological Aspects of Ocular Disease	March	1
NHLBI, Clinical Investigator Award	February	1
NHLBI, Research Training and Development Areas:		
Institutional Research Training Grant	February	1
Individual Postdoctoral Fellowship	February	1
Senior Research Fellowship	February	1
Research Career Development	February	1
Clinical Investigator Award	February	1
Physician Scientist Award	February	1
New Investigator Research Award	March	1
NHLBI, RFA: 84-HL-15-B, Specialized Centers of Research in Thrombosis/National Research and Demonstration Center in Thrombosis	February	15
NHLBI, Mechanisms of Platelet Refractoriness (Letter of intent by 12/1)	February	15
NHLBI, Surfactants for Perflurochemicals	March	1
NIA, RFA: 84-AG-03, Alzheimer Disease Research Centers (Letter of intent requested by 10/1)	November	9
NIA/NIAID/NIADDK/NICHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	February	1
NIA/NIAID/NIADDK/NCI/NICHD/NIEHS/NHLBI, Clinical Investigator Award	February	1
NIA, Small Grant Awards for Pilot Projects	February	1
NIA, Health Behaviors and Aging: Behavioral Geriatrics Research	February	1
NIA, Complementary Training Awards for Research on Aging	February	1
NIA, Aging and Visual Perception:		
Program Project Grants	February	1
Individual Postdoctoral Fellowships	February	1
Institutional Research Training	February	1
Research Grants	March	1
New Investigator Awards	March	1
NIA, Geriatric Leadership Academic Award	March	1
NIADDK, RFA: 84-AM-04, Digestive Disease Core Centers	November	16
NIADDK/NIAID/NICHD, RFA: 84-AM-05, Auto-Immunity Related to Endocrine Diseases (Letter of intent by 11/15/84)	December	3
NIADDK/NIA, Research on Anorectal Diseases and Disorders:		
Research Career Development Awards	February	1
Institutional Training Projects	February	1
New Investigator Awards	March	1
Research Projects	March	1
NIADDK/NCI/NHLBI/NICHD/NIA/NINCDS, Research on Obesity	March	1
NIADDK/NICHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	March	1
NIADDK/NIA/NIAID/NICHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	March	1
NIAID, Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
Career Development	February	1
Physician Scientist	February	1
Clinical Investigator	February	1
Postdoctoral Fellow	February	1
New Grants	March	1
New Investigator	March	1
NICHD, RFA: 84-HD-06, Acceptability and Utilization of the Contraceptive Sponge	November	15

NICHD, RFA: 84-HD-07, Normal and Abnormal Limb Development Studies	November	15
NICHD, RFA: 84-HD-05, Intrauterine Growth Retardation-Perinatal Emphasis Research Center "Revised Deadline"	December	1
NICHD, Physical Activity in Pregnancy	March	1
NIDR, Small Grant Program	February	1
NIDR, Dentist Scientist Award	February	1
NIH, Biomedical Research Support Grants (Formula Grants)	January	1
NIH, Research Grants, Renewals	February	1
NIH, Research Career Development Awards	February	1
NIH, Individual Postdoctoral Fellowships	February	1
NIH, Institutional Training Programs	February	1
NIH, Support of Meetings (Scientific, U.S.A. or International)	February	1
NIH, DRR, NMR Resources, Biotechnology Resources Program	February	1
NIH, Research Grants, New	March	1
NIH, New Investigator Awards	March	1
NINCDS, Individual Postdoctoral Fellowships: Speech and/or Language Disorders	February	1
NINCDS, Clinical Investigator Development Award	February	1
NINCDS/NIMH, Autism and Related Behavioral Disorders	March	1
NINCDS, Research Grants on Status Epilepticus	March	1
NLM, Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	March	1

#### NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award <u>for each</u> : School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
NHLBI, Research Training and Development Areas: Short-Term Research Training: Students in Health Professional Schools	February	1
Special Emphasis Research Career: Diabetes Mellitus	June	1
NHLBI, Preventive Cardiology Academic Award	April	1
NHLBI/NIAMDD, SERCA: Diabetes Mellitus-Cardiovascular, Metabolic and Endocrinologic Aspects	June	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NICHD/NIAMDD, SERCA: Diabetes-Mellitus-Obstetrical, Perinatal, and Pediatric Aspects	June	1
NIGMS, NIGMS Shared Instrumentation Grants	February	15
NIH, NRSA for Short-Term Training of Students in Health Professional Schools (Limited to one application per health professional school for a given receipt date)	February	1

#### ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, New	November	1
ADAMHA, Research Grants, Renewals	February	1
ADAMHA, Individual Postdoctoral Fellowships	February	1

ADAMHA, Institutional Training Grants, NRSA	February	1
ADAMHA, Research Scientist Development/Research Scientist Award	February	1
ADAMHA/NIH/NCHSR, Research on Digestive Diseases: Research Career Development	February	1
Research Grants	March	1
NIAAAA/NIDA/NIMH, Institutional NRSA Training	February	1
NIDA, Drug Abuse Prevention Research	March	1
NIMH, Rape Centers	February	1
NIMH, Support for Child and Adolescent Mental Health Research and Research Training:		
Individual Postdoctoral Training	February	1
Institutional Research Training	February	1
Research Grants	March	1
NIMH, Child and Adolescent Mental Health Research and Research Training:		
Institutional Training Grants	February	1
Research Grants	March	1
NIMH, Geriatric Mental Health Award	March	1
NIMH, Clinical Investigator Award	March	1
NIMH, Research Grants Program	March	1
NIMH, Physician Scientist Award	March	1
NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders	March	1
NIMH/NIDA, Research on Obesity	March	1
NIMH/NINCDS, Autism and Related Behavioral Disorders	March	1
NIMH, Clinical Research Centers on Psychopathology of the Elderly	March	1

### NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
Grants for Health Services Dissertation Research	March	15

### FOOD AND DRUG ADMINISTRATION

Research Grants, Renewals	February	1
Research Grants, New	March	1

### HEALTH CARE FINANCING ADMINISTRATION

Health Financing Research and Demonstration Grants (November 5 deadline canceled)	February	4
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### HEALTH RESOURCES AND SERVICES ADMINISTRATION

Grants for Establishment of Departments of Family Medicine	November	15
Physician Assistant Training Programs	November	23
Advanced Nurse Training Grants	March	1
Nurse Practitioner Training Grants	March	1
Nurse Special Project Grants	March	1

### DEPARTMENT OF EDUCATION

Training Personnel for the Education of the Handicapped	November	9
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Undergraduate International Studies and Foreign Language Program	November 16
Fulbright-Hays Training Grant Program, FY 1985:	
Faculty Research Abroad	November 16
Foreign Curriculum Consultants	November 16
Group Projects Abroad	November 16
Doctoral Dissertation Abroad	November 16
The Fund for the Improvement of Postsecondary Education (FIPSE), Comprehensive Program	November 29
Bilingual Education Programs:	
Bilingual Vocational Training	November 28
Vocational Instructor Training	November 28
Basic Bilingual Grants (requires collaboration with school district for University to be eligible)	December 7
Training Projects	December 28
Secondary Education and Transitional Services for Handicapped Youth	December 7

## NATIONAL INSTITUTE OF JUSTICE

Visiting Fellowships Program	November 15
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## U.S. DEPARTMENT OF AGRICULTURE

Postmark deadlines for proposals submitted for USDA's FY 1985 Competitive Research Grants Program are as follows:

Photosynthesis	November 15
Biological Stress on Plants - Entomology and Nematology	December 3
Biological Nitrogen Fixation	December 17
Human Requirements for Nutrients	December 17

## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts	
Visiting Senior Fellowships and Associates	
(For 9/16/85-2/28/86)	March 21
(For 3/1/86-8/31/86)	September 21

## NONFEDERAL

THE ORA CONTACT NUMBER FOR NONFEDERAL DEADLINE/PROGRAM INFORMATION IS 373-1970.

American Chemical Society - Petroleum Research Fund	
Grants-in-Aid	No Deadline
American Council of Learned Societies	
Grants for Research in Chinese Studies	November 15
East European Studies	November 15
Grants-in-Aid	December 17
American Diabetes Association	
Lions Clubs International Research Program	December 21



American Heart Association-Minnesota Affiliate	
Research Fellowships	November 15
Grants-in-Aid	December 15
American Heart Association-San Francisco Chapter	
Supplemental Funds for Research Sabbatical Positions	November 30
American Institute for Foreign Study	
Faculty Development Positions Abroad (suggested deadline)	March 15
American Philosophical Society	
Grants-in-Aid	Various--Contact ORA
Andrew W. Mellon Foundation	No Deadline
Andrus Foundation (AARP)	December 3
Apple Education Foundation	
Wheels for the Mind Donation Campaign	December 14
Arthritis Foundation-Minnesota Affiliate	February 15
Bosch Foundation Fellowship Program	No Deadline
Boston University	
University Professors Postdoctoral Fellowship	March 1
Burroughs Wellcome Fund	
Toxicology	December 1
Molecular Parasitology	January 15
Pharmacoepidemiology	February 15
Carnegie Corporation	No Deadline
Center for Field Research (Earthwatch)	
Latin America Field Research Grants	No Deadline
Corporation for Public Broadcasting	
Program Fund/Open Solicitation	December 14
Cystic Fibrosis	
Student Traineeships	February 1
Damon Runyon Walter Winchell Cancer Fund	
Fellowship Grants	December 15
Human Cancer-Directed Fellowship Grants	December 15
Delta Society	January 15
Distilled Spirits Council of the United States	
Grants-in-Aid for Research	February 1
Edna McConnell Clark Foundation	No Deadline
Ford Foundation	No Deadline
Gas Research Foundation	
Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
German Marshall Fund	
Research Fellowships	November 30
Short-Term Travel Awards	No Deadline
International Research and Exchanges Board (IREX)	
Developmental Fellowships	March 15
USSR Exchange of Language Teachers for Summer 1985	January 15
Slavonic Studies Seminar for Summer 1985	December 1
Travel Grants for Senior Scholars	January 31
	April 30
International Society of Arboriculture	December 1
Juvenile Diabetes	
Research Grant Applications	March 1
Kellogg Foundation	
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
Ladies Auxiliary/Veterans of Foreign Wars	February 15

March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Education	January 1
Medical Services	January 1
Mathers Charitable Foundation	Continuous
McKnight Foundation	
Scholars Award	January 2
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
General Grants	
Final Application (for October 19 draft)	November 9
Small Grants	No Deadline
Media Grants	
Final Application	November 9
Minnesota Medical Foundation	December 30
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Association	
Grants-in-Aid	
Request for Application	November 30
Final Application	December 31
National Foundation for Ileitis and Colitis	February 1
National Geographic Society	
Grants-in-Aid	No Deadline
National Multiple Sclerosis Society	
Research Grants	February 1
Postdoctoral Fellowships	February 1
Junior Faculty Awards	February 1
National Pork Producers Council	December 15
National Society of Animal Breeders	February 1
Orthopaedic Research and Education Foundation	
Resident Research Fellowships	February 15
Paralyzed Veterans of America	
Research Proposals	January 1
Design Development Proposals	January 1
Pew Memorial Trust	Continuous
Pharmaceutical Manufacturers Association Foundation	
Development Grants/Clinical Pharmacology Units	January 1
Medical Student Research Fellowships/Pharmacology	January 15
Fellowship Awards in Pharmacology/Morphology	January 15
Research Corporation	
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline
Rockefeller Brothers Fund, Inc.	No Deadline
Scottish Rite Schizophrenia Research Program	
Dissertation Research Fellowship Awards	
Preapplication Letter	February 1
Final Application	March 1
Research Grant Awards	
Preapplication Letter	January 1
Final Application	March 1
Southeastern Poultry and Egg Association	No Deadline
Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial Instrumentation	
Pre-proposals	No Deadline
Tinker Foundation	
Field Research in Portugal, Spain or Latin America	No Deadline
University Genetics Company (UGEN)	No Deadline

Villers Foundation  
Wang Institute of Graduate Studies  
Fellowship in Chinese Studies (Postmark)

No Deadline

December 1

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

# ORR RDC Newsletter

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## NEW FRINGE BENEFIT RATES

The fringe benefit rates shown below are in effect for billing purposes July 1, 1984 through December 31, 1984. The estimated rates are to be used for budgeting beyond December 1984.

	ACADEMIC %	CIVIL SERVICE %
Health Plan	5.6063	6.9948
Unemployment Compensation	.0588	.3451
Workers Compensation	.0000	.9006
Group Life	.5260	.2009
Retirement	13.2025	3.7000
F.I.C.A.	<u>6.2188</u>	<u>7.0469</u>
	25.6124	19.1883
Estimated rates to be used for budgeting beyond 12/84:	26.0000	23.0000

## FISCAL YEAR 1984 SPONSORED PROGRAM EXPENDITURES

Expenditures for sponsored research, training and public service programs administered by the Office of Research and Technology Transfer Administration totaled \$117.6 million in fiscal year (FY) 1984. This is an increase of 3 percent over the FY 1983 level of \$114.1 million. Research expenditures accounted for 84 percent of the total, or \$98.5 million, an increase of 3.5 percent or \$3.3 million over the FY 1983 level of \$95.2 million. The remaining 16 percent or \$19.1 million was expended on training and public service programs, an increase of less than \$200 thousand over the FY 1983 level.

Analysis of these expenditures by source indicates that the federal government provided 75 percent or \$87.7 million; private sources, such as industry, foundations, voluntary health agencies, and others provided 22 percent or \$25.8 million; and state and local agencies accounted for 3 percent or \$4.0 million. Federal support continued to decline in FY 1984, dropping by 2 percent, while expenditure of funds from private sources increased 22 percent.

Detailed statistical tables by college, department and sources of support are currently in preparation. Our report for FY 1984, entitled *Levels and Trends in*

*Sponsored Programs at the University of Minnesota*, should be available for distribution by mid-February 1985. If information is needed prior to distribution, please contact the Office of Research and Technology Transfer Administration at 376-7358.

## FEDERAL EXCESS PROPERTY REUTILIZATION PROGRAM

The University of Minnesota is an active participant in the Federal Excess Property Reutilization Program. The Property Accounting department has been authorized to develop and implement this program, which involves the acquisition of equipment and supply items no longer needed by various government contractors or agencies. Eligible recipients include researchers with Department of Defense (DOD), Agriculture (USDA) and National Science Foundation (NSF) grants. Generally, the only expense to the department is the shipping charge, and in the case of NSF, ownership is transferred to the University. Departments are therefore encouraged to economize or supplement their research using this source of supply.

Implementation: The Property Accounting department investigates sources of supply and obtains listings of available property, which are screened and circulated to University departments. Property is available on a "first come, first served" basis to competing agencies and individuals. When a researcher is interested in acquiring an item on one of these lists, Property Accounting will "freeze" the item with the custodial agency and will prepare and submit a transfer document which must be signed by the principal investigator. A brief explanation of intended use (justification statement) should also be provided by the investigator. It is suggested that departments appoint a central individual such as a machine or electronic shop foreman to screen listings, in order to save researchers' time as well as duplicating and mailing expense. Processing time between order and receipt of property is typically eight weeks.

Eligibility: National Science Foundation grantees may obtain scientific and computer equipment which can be used on the grant. Title passes to the University, so at the conclusion of the project, the equipment may be kept, traded or disposed of according to normal University procedures. Property acquired for Defense contracts or USDA activities belongs to the federal government and is considered capital equipment if it has an original value of \$500.00 or more. Thus, at the conclusion of the project it must be declared excess or transferred to another University project. Any category of equipment may be acquired if it relates to the research.

Location of Property: Listings are received from several geographical regions of the United States including the east and west coasts. Local government agencies and contractors (e.g., Honeywell) may be visited in person to inspect excess property.

Responsibilities: Items with an original value of \$500.00 or more are added to permanent inventory records and monitored by Property Accounting. All other materials are accounted for according to individual departmental procedures. The sponsoring federal agencies may include these items in their periodic audits.

For further information, call Kathy Paschke, University of Minnesota Excess Property, 373-4983.

## SHARED INSTRUMENTATION GRANTS, BIOMEDICAL RESEARCH SUPPORT (NIH) FEBRUARY 15, 1985 DEADLINE

The Division of Research Resources (DRR) is continuing its competitive Biomedical Research Support (BRS) Shared Instrumentation Grant Program initiated in Fiscal Year 1982. This program is designed to meet the special problem of acquisition and updating of expensive shared-use instruments which are not generally available through other NIH mechanisms, such as the regular research, program project and center grant programs, or the Biomedical Research Support (BRS) Grant Program. Proposals for the development of new instrumentation will not be considered. BRS Shared Instrumentation Grants provide support for expensive state-of-the-art instruments utilized in both basic and clinical research. Applications are limited to instruments that cost at least \$100,000 per instrument or system. Awards will be made for the direct costs of acquisition of new, or the updating of existing, research instruments. The institution must meet those costs (not covered in the normal purchase price) required to place the instrumentation in operational order as well as the maintenance, support personnel and service costs associated with maximum utilization of the instrument. There is no upper limit on the cost of the instrument, but the maximum award is \$300,000. A major user group of three or more investigators should be identified. Each major user must have NIH peer-reviewed research support at the time of the award. The application must show a clear need for the instrumentation by projects supported by multiple NIH research awards and demonstrate that these projects will require at least 75% of the total usage of the instrument. Major users can be individual researchers, or a group of investigators within the same department or from several departments at the applicant institution. NIH extramural awardees from other institutions may also be included. A complete copy of the announcement, application kit and applicable instructions may be obtained from ORA, 373-5925.

## NATIONAL INSTITUTE OF ARTHRITIS, DIABETES, AND DIGESTIVE AND KIDNEY DISEASES (NIH) ISSUES POLICY CHANGES RELEVANT TO PROGRAM PROJECT APPLICATIONS

NIADDK has reviewed the current use of program project grants for their most effective utilization by NIADDK grantees. As a result, two changes in program guidelines have been made as follows:

### I. Maximum Requested Budgets

- A. New program applications submitted *on or after 2/1/85* and assigned to NIADDK will be subject to a budgetary restriction of \$1 million per year direct costs when averaged over the requested project period. In cases where exceptional circumstances make this limitation inappropriate, applicants should consult with NIADDK staff well in advance of the anticipated submission date to permit careful fiscal and programmatic review.
- B. Competing continuation applications (renewals) will be subject to the following provisions:
  1. Competing applications submitted to renew projects scheduled to terminate before July 1, 1987 will not be subject to the \$1 million restriction.
  2. Competing applications submitted to renew projects scheduled to terminate on or after July 1, 1987 will be subject to the \$1 million restriction.

- C. Program projects currently funded by NIADDK with recommended budgets of less than \$1 million per year will be subject to the new maximum for competitive renewal applications submitted on or after February 1, 1985.

## II. Change in Review Procedures

Currently, program project applications assigned to NIADDK undergo an initial review but separate numerical priority scores are not given to each component project. Initial Review Groups (IRG) may assign priority scores to projects recommended for approval and to applications recommended for approval. Priority scores for projects will be reported as advisory information in Summary Statements together with the review groups' perception of the relationship of each component project to the overall program objectives. Core components will not receive priority scores. It is expected that this change of review procedure will be helpful to the Institute in making decisions regarding the levels of funding to be awarded to program project applications.

## NSF - FACILITATION AWARDS FOR HANDICAPPED SCIENTISTS AND ENGINEERS

Facilitation Awards support special equipment or assistance necessary to enable a physically disabled individual to conduct or participate in a specific NSF-supported project in science and engineering research or education, including fellowships. The purposes of Facilitation Awards are: (1) to reduce or remove barriers to participation in research and training by physically disabled individuals by providing special equipment and assistance under awards made by NSF, and (2) to encourage disabled individuals to pursue careers in science and engineering by stimulating the development and demonstration of special equipment that facilitates work performance. Categories of personnel eligible for support include principal investigators, other senior personnel, postdoctoral associates, other professionals, and graduate and undergraduate students. Copies of the announcement are available from Mary Bergaas, ORA, 373-2784.

## NSF - DIVISION OF MATERIALS RESEARCH - MATERIALS RESEARCH GROUPS PROGRAM

The Materials Research Groups (MRG) Program provides support for collaborative, multi-investigator research within the purview of the Division of Materials Research. Such research is expected to address major problems in materials research which require the combined expertise of several investigators and requisite instrumentation. Proposals may be submitted at any time. A copy of the guidelines may be obtained by calling Mary Bergaas, ORA, 373-2784.

## NSF - NCAR RESEARCH AVIATION FACILITY

The advisory panel for the Research Aviation Facility (RAF) of the National Center for Atmospheric Research (NCAR) will consider requests for flight support for programs in the atmospheric sciences within the context of NSF grants. Requests must be submitted no later than February 8, 1985 to the Manager, Research Aviation Facility, NCAR, P.O. Box 3000, Boulder, CO 80307. Additional information is available from the Research Aviation Facility (303) 497-1036.

## **NSF - COOPERATIVE RESEARCH WITH EASTERN EUROPE**

NSF's Eastern Europe Cooperative Science program seeks to foster and support scientific and technological cooperation between the U.S. and Bulgaria, Hungary, and Romania. The program offers financial support for three types of activities: cooperative research projects, seminars and workshops, and scientific visits for planning purposes. The next target date for research proposals is May 1, 1985. For further information contact Ms. Deborah Wince, Division of International Programs (202) 357-9516.

## **NASA - GRADUATE STUDENT RESEARCHERS PROGRAM 1985**

The NASA Graduate Student Researchers Program is designed to significantly increase the number of highly trained scientists and engineers in aeronautics, space science, space applications, and space technology to meet the continuing needs of the national aerospace effort. Each year NASA will provide an opportunity for about 80 graduate students in aerospace science and technology to conduct their thesis research on a NASA-related program. Selections will be made on the basis of a proposal by the student's faculty advisor in a research area identified by NASA. Additional information may be obtained from ORA by calling Mary Bergaas at 373-2784. Deadline: February 1, 1985.

## **ENVIRONMENTAL PROTECTION AGENCY (EPA) RESEARCH OPPORTUNITIES**

*Solicitation for Research Grant Proposals*, published by EPA's Office of Research and Development (ORD), lists areas of research that are of interest to ORD's Office of Exploratory Research. These areas are: environmental ecology, biology and microbiology; environmental health; environmental engineering; and environmental chemistry, physics and measurements. Copies of this document may be obtained from ORA by calling Mary Bergaas at 373-2784.

## **NATIONAL INSTITUTE OF JUSTICE (NIJ) - COMPETITIVE GRADUATE RESEARCH FELLOWSHIPS**

The NIJ has announced a competitive Graduate Research Fellowship Program which will provide a limited number of Fellowships to doctoral candidates engaged in the preparation of a dissertation in policy relevant areas of criminal justice. Applicants must have completed all degree requirements except for research, writing and defense of the dissertation. The maximum award for each grant is \$11,000, which provides a stipend for the student, allowance for dependents, major project costs and certain university fees. Submissions postmarked on or before March 1, 1985 will be considered for the next funding cycle. Additional information may be obtained by sending a self-addressed mailing label to: Solicitation, Graduate Research Fellowship Program, National Criminal Justice Reference Service, Box 6000, Rockville, MD 20850.

## **NATIONAL INSTITUTE OF JUSTICE (NIJ) - COMPETITIVE UNSOLICITED RESEARCH PROGRAM**

The NIJ has announced a competitive research grant program, the Unsolicited Research Program, emphasizing innovative and policy relevant research. Significant issues pertaining to adult crime and criminal justice must be addressed in a competently designed research format. All papers postmarked on or before June 1, 1985 will be considered during the next funding cycle. Copies



of this solicitation may be obtained by sending a mailing label to: Announcement Requests, Unsolicited Research Program, National Institute of Justice, National Criminal Justice Reference Service, Box 6000, Rockville, MD 20850.

#### **NATIONAL INSTITUTE OF JUSTICE (NIJ) - SOLICITATION OF PROPOSALS FOR STUDYING THE IMMEDIATE AND LONG-TERM PSYCHOLOGICAL EFFECTS OF CRIMINAL VICTIMIZATION**

The NIJ has announced a competitive research grant program on studying the immediate and long-term psychological effects of criminal victimization. The purpose of this research is to develop understanding about the psychological wounds sustained by victims of crime and the best means of treating such injuries. Special attention should be given to the use of research designs that will provide results and findings that will influence policy and practice. To be eligible for consideration, proposals must be received by January 15, 1985 at the National Institute of Justice. A copy of the solicitation may be obtained by sending a self-addressed mailing label to: Announcement Request, "Studying the Immediate and Long-Term Psychological Effects of Criminal Victimization", National Criminal Justice Reference Service, Box 6000, Rockville, MD 20850.

#### **UNITED STATES INFORMATION AGENCY (USIA) - UNIVERSITY AFFILIATION PROGRAM**

The Bureau of Educational and Cultural Affairs of the USIA has announced a program of support for institutional partnerships between U.S. and non-U.S. colleges and universities. The goal of the program is to facilitate bilateral institutional relationships which promote mutual understanding through faculty and staff exchanges. The four eligible fields for University Affiliation proposals will be the humanities, social sciences, education and communications. Proposals must be postmarked by February 1, 1985. For questions concerning programming and budget, contact the United States Information Agency, 301 4th Street S.W., Washington DC 20547.

#### **USIA - PRESIDENT'S INTERNATIONAL YOUTH EXCHANGE INITIATIVE**

The United States Information Agency (USIA) has announced a program to expand the President's International Youth Exchange Initiative to the countries listed below: Algeria, Austria, Bahrain, Bolivia, Botswana, Colombia, Costa Rica, Cyprus, Dominican Republic, Egypt, India, Indonesia, Israel, Ivory Coast, Jamaica, Jordan, Kenya, Malaysia, South Korea, Spain, Thailand, Togo, Turkey, and Uruguay. Proposals for exchanges with other countries will not be accepted at this time. There are three major program categories that are the subject of this competition: General, Bilateral (jointly funded by the U.S. and a partner government), and Special Projects for several countries. Proposals should be received by the USIA no later than December 31, 1984. For further information on this program contact the International Youth Exchange Staff, Bureau of Educational and Cultural Affairs (E/YX), U.S. Information Agency, Washington, DC 20547, or call (202) 485-7299.

#### **OFFICE OF NAVAL RESEARCH (ONR) CONTRACT PROGRAMS**

The following are descriptions of health-related ONR contract programs for which unsolicited proposals may be submitted. Opportunities also exist for joint research ventures with ONR's own research facilities.

OCEAN SCIENCES DIVISION: Research in this division is supported in the five major areas of physical oceanography, chemical oceanography, ocean biology, coastal sciences and the atmospheric sciences. Contact: Dr. Alan I. Weinstein, Division Head, (202) 696-4532.

BIOLOGICAL SCIENCES DIVISION: The biological sciences division funds research in the disciplines of microbiology, environmental biology, biochemistry, biophysics, physiology and bioelectromagnetics. Contact: Dr. Robert Newburgh, Division Head, (202) 696-4986.

PSYCHOLOGICAL SCIENCES DIVISION: The psychological sciences division supports basic and applied research in manpower personnel, training and human factors engineering. The program consists of three research programs: engineering psychology, organizational effectiveness, personnel and training. Contact: Dr. Martin Tolcott, Division Head, (202) 696-4505.

#### **USDA RFP: FOOD DISTRIBUTION**

The U.S. Department of Agriculture has issued a Request for Proposals to train and assist state and local school officials to understand and utilize the basic principles of effective food distribution. For further information, contact the U.S. Department of Agriculture, Food and Nutrition Service, Contract Management Branch, 3101 Park Center Drive, Alexandria, VA 22302.

#### **USAID RFP: VILLAGE RESTORATION**

The U.S. Agency for International Development has issued a Request for Proposals to provide short-term technical services to a village restoration program in the Mopti region of Mali. For further information, contact Paul Holmes, Contract Specialist, U.S. Agency for International Development, AFR/PD/SWAP, Room 2733A, Washington, DC 20523, (202) 632-8242.

#### **U.S. ARMY RFP: ECONOMIC STUDIES**

The U.S. Army has issued a Request for Proposals to develop, update and present two courses on economic studies: one on military construction applications (energy and non-energy); the second on principles and practices of corps of engineers applications. For further information on this solicitation (# DACW87-84-R-0199), contact the U.S. Army Engineer Division, Huntsville, P.O. Box 1600, Huntsville, AL 35807-4301, Attn: HNDPD-C/Murray, (205) 895-5100.

#### **FOUNDATION SUPPORT**

Foundations are a small but growing source of support for educational institutions. The following are brief profiles describing the scope of five national foundations. Further information may be obtained by contacting ORA at 3-1970 or the individual foundation directly.

MACARTHUR FOUNDATION: The MacArthur Foundation, established in 1970 in Illinois, currently awards grants under four major initiatives: its fellows program, for highly talented individuals in any field of endeavor; its health program, primarily for research in mental health and the psychological and behavioral aspects of health and rehabilitation; its general grants program, for education, governance, public affairs, civil and criminal justice and mass

communications; and its special grants program, for support of cultural and community activities in the Chicago metropolitan area. Initial approach is by proposal letter. Contact: John D. and Catherine T. MacArthur Foundation, 140 S. Dearborn St., Chicago, IL 60603, (312) 726-8000.

BROWN FOUNDATION: The Brown Foundation, incorporated in 1951 in Houston, Texas, awards grants in the areas of higher education, the handicapped, hospitals, museums, the performing arts and conservation. Applications may be submitted in the form of a letter of inquiry. Contact: The Brown Foundation, 2118 Welch Avenue, P.O. Box 13646, Houston, TX 77219, (713) 523-6867.

ALFRED P. SLOAN FOUNDATION: In its 50 year history, the Alfred P. Sloan Foundation has awarded grants totaling more than \$367 million. The foundation's grant programs support research in the natural sciences, mathematics, economics and technology. In addition, Sloan supports research fellowships both at the postdoctoral and predoctoral levels. In 1982, Sloan launched its new liberal arts program with the purpose of incorporating applied mathematics and technology into a wide range of college courses. The program is slated for expansion in 1985 to include university-based projects. Contact: Alfred P. Sloan Foundation, 630 Fifth Avenue, New York, NY 10111, (212) 582-0450.

KAISER FAMILY FOUNDATION: The Henry J. Kaiser Family Foundation's resources are allocated exclusively to projects in the medical field. Areas of emphasis include health care delivery, particularly the encouragement of health maintenance organizations; medical and paramedical education; and problems in medicine, which call for joint efforts of professionals from a variety of disciplines. These areas are currently being revised and applicants are encouraged to contact the foundation for up-to-date information on new program areas. Contact: The Henry J. Kaiser Family Foundation, 525 Middlefield Road, Suite 200, Menlo Park, CA 94025, (415) 329-1000.

LILLY ENDOWMENT: The Lilly Endowment's grant programs emphasize projects that seek to produce positive changes in human society, promote human development, strengthen independent institutions and encourage responsive government at the local and national levels. Grants are not made in the area of health or medicine. A letter of two pages or less is the first step in the application process. Contact: Lilly Endowment Inc., 2801 N. Meridian St., P.O. Box 88068, Indianapolis, IN 46208, (317) 924-5471.

#### **VISITING FELLOWSHIPS IN CANADIAN GOVERNMENT LABORATORIES**

The Natural Science and Engineering Research Council administers the Visiting Fellowship program on behalf of Canadian government departments and agencies. Candidates should normally have received a doctorate degree or equivalent experience within the last five years. There are no restrictions limiting the nationality of applicants, however, successful candidates who are not Canadian citizens or permanent residents of Canada must satisfy all of the Canadian immigration requirements before commencing tenure of the fellowship. The fellowships have an annual value of \$26,760 and are subject to Canadian income tax. The travel allowance is also considered a taxable benefit. Appointments are made for one year; renewals for a second year are possible. Applications for fellowships in all Canadian Government departments must be made on special forms, which are available from the Natural Sciences and Engineering Research Council of Canada, Ottawa, Ontario, Canada, K1A 1H5. Applications and supporting documents must be received in Ottawa not later than January 15, 1985.

## AMERICAN CANCER SOCIETY (ACS) INSTITUTIONAL RESEARCH GRANT AWARD

The University of Minnesota has been awarded a renewal of its Institutional Research grant from the ACS for 1984-1985. This fund is intended to serve as "seed" money permitting the initiation of promising new projects or novel ideas, especially by junior investigators, in cancer-related research. Encouragement of cancer research may also be facilitated by support of seminars on cancer-related topics, and by graduate student research. The fund is administered by a Dean's Committee of the Medical School with representation from other biologically-oriented colleges. The Committee is now accepting applications for individual grants not to exceed \$7,500 from this fund with a deadline date of February 15, 1985. Instructions and application forms may be obtained from the Dean's Committee for the ACS Institutional Research grant, Room 421 Masonic Cancer Center, 373-4318.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

## FEDERAL

THE ORA CONTACT NUMBERS FOR FEDERAL DEADLINE/PROGRAM INFORMATION ARE AS FOLLOWS:

DEPARTMENT OF HEALTH AND HUMAN SERVICES	373-5925
DEPARTMENT OF EDUCATION	373-5925
OTHER FEDERAL AGENCIES	373-2771

## NATIONAL INSTITUTES OF HEALTH

DRR, Shared Instrumentation Grant (Biomedical Research Support)	February 15
Fogarty International Center, Eastern European Scientist Exchange Program	Open
Fogarty International Center, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open
Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open
Fogarty, Biomedical Research Fellowship Opportunities Abroad:	
Alexander von Humboldt Awards (West Germany)	Open
Fogarty, Senior International Fellowship Program	January 15
NCI, RFA: 84-CA-18, Selected Cancer Prevention Clinical Trials	December 10
NCI, RFA: 84-CA-17, The Physiochemical Effects of Dietary Fiber in Humans (Letter of intent by 10/16/84)	December 11
NCI, RFA: 84-CA-22, Cooperative Agreements for National Cooperative Drug Discovery Groups	December 14

NCI, RFA: 84-CA-24, Use of Oncogene Related Products for Cancer Therapy	December	14
NCI, RFA: 84-CA-25, Innovative Approaches to Development of Cancer Chemopreventive Agents	December	15
NCI, RFA: 84-CA-26, Mutagens in Human Foods	December	15
NCI, Cooperative Agreement 85-CA-04, Continuing Care Research-Identifying and Reducing Obstacles for Cancer Patients (Letter of intent by 11/4/84)	January	8
NCI, Cooperative Agreement 85-CA-02, Inter-Institutional Network for Automated Flow Cytometry Research in the Diagnosis and Treatment of Urinary Bladder Cancer (Letter of intent encouraged by 11/16/84)	January	11
NCI, Cooperative Agreement 85-CA-01, Cooperative Group for Studies on Mutagens in Human Foods	January	15
NCI, Cancer Education Program	February	1
NCI, The NCI Clinical Investigator Award	February	1
NCI, Predoctoral Research Fellowships for Oncology Nurses (Letter of intent by 1/1)	February	1
NCI/NIAID/NIADDK/NICHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases:		
Research Career Development	February	1
Research Grants	March	1
NCI, Cancer Control Small Grants Research Program	February	12
NCI, Biochemistry and Pharmacology Program	March	1
NCI, Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	March	1
NCI, Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	March	1
NCI, Prediction of Tumor Response to Radiation Therapy	March	1
NCI, Medical Imaging for Diagnosis and Treatment of Cancer	March	1
NCI, Research on Biological Response Modifiers	March	1
NCI, RFA-85-CA-03, Cytogenetics and Predisposition to Cancer	March	15
NEI, Small Grants Program for Pilot Projects	February	1
NEI, Retinal and Choroidal Diseases Research:		
Individual Postdoctoral Fellowships	February	1
Institutional Research Training	February	1
Research Grants	March	1
NEI, Strabismus, Amblyopia and Visual Processing:		
Individual Postdoctoral Fellowships	February	1
Institutional Research Training	February	1
Research Grants	March	1
NEI, Research on Basic Mechanisms of Retinal Phototoxicity	March	1
NEI/NIAID, Immunological Aspects of Ocular Disease	March	1
NHLBI, RFA-85-HL-24-H, Minimally Invasive Techniques for Characterization of Atherosclerotic Plaque	January	15
NHLBI, RFA-85-HL-14-H, Myocardial Proteins in Cardiac Diseases	January	15
NHLBI, RFA-85-HL-11-H, Studies on the Sex Differences in Coronary Arteriosclerosis and the Possible Roles of Sex Steroids	January	15
NHLBI, Clinical Investigator Award	February	1
NHLBI, Research Career Development Award: Basic Science Related to the Respiratory System	February	1

NHLBI, Career Development Programs for Physicians in Cardiac and Vascular Research in Cerebrovascular Disease:		
Physician Scientist Award	February	1
Clinical Investigator Award	February	1
NHLBI, Research Training and Development Areas:		
Institutional Research Training Grant	February	1
Individual Postdoctoral Fellowship	February	1
Senior Research Fellowship	February	1
Research Career Development	February	1
Clinical Investigator Award	February	1
Physician Scientist Award	February	1
New Investigator Research Award	March	1
NHLBI, RFA 85-HL-03-B, Inhibitor Formation in Hemophilia	February	15
NHLBI, RFA 84-HL-15-B, Specialized Centers of Research in Thrombosis/National Research and Demonstration Center in Thrombosis	February	15
NHLBI, Mechanisms of Platelet Refractoriness (Letter of intent by 12/1)	February	15
NHLBI, RFA 85-HL-25-P, Research in Nutrition and Cardiovascular Diseases	February	15
NHLBI, RFA-85-HL-23-P, Workplace Demonstration and Education Research in Cardiovascular Diseases	February	15
NHLBI, RFA-85-HL-22-P, Behavioral Stress, Neuroactive Peptides, and Cardiovascular Disease	February	15
NHLBI, RFA-85-HL-21-P, Smoking Cessation in Patients with Cardiovascular Disease	February	15
NHLBI, RFA-85-HL-20-P, Exercise, Stress and Atherosclerosis	February	15
NHLBI, Childhood Nutrition, Physical Activity, and CV Health	February	15
NHLBI, Fundamental Studies of Normal and Abnormal Cardiac Rhythm	February	15
NHLBI, Surfactants for Perflurochemicals	March	1
NHLBI, Demonstration and Education Research Related to Pulmonary Disease	March	1
NHLBI, Arrhythmia Detection and Discrimination from Electrograms	March	1
NHLBI, Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young	March	1
NHLBI, Minimally Invasive Measurement of Blood Pressure in the Heart and Central Arteries	March	1
NHLBI, Development of Genetic Hypertensive Animal Models	March	1
NHLBI, Blood Transfusion and Cytomegalovirus Infection	March	1
NHLBI, RFA-85-HL-17-H, Molecular Mechanisms Controlling Myocardial Growth and Hypertrophy	March	15
NHLBI, Protection of the Immature Myocardium	March	15
NHLBI, RFA-85-HL-07-H, Cell Biology of the Vasculature in the Pathogenesis of Hypertension	April	1
NHLBI, RFA-85-HL-06-H, Blood Vessels of the Brain and Neck	April	1
NHLBI, RFA-85-HL-05-H, Juvenile Hypertension and the Prehypertensive State	April	1
NHLBI, RFA-85-HL-04-H, Endothelial and Smooth Muscle Cell Interactions in Lung	April	1
NHLBI, RFA-85-HL-08-H, Molecular Genetics and Hypertension	April	1

NHLBI, RFA-85-HL-09-H, Cellular and Molecular Biology of the Atherosclerotic Lesion	April	2
NHLBI, RFA-85-HL-12-L, Airway Smooth Muscle: Biology and Pharmacology	April	15
NHLBI, Minority Summer Program in Pulmonary Research	August	1
NHLBI, RFA-85-HL-01-1-L, Specialized Centers of Research Concerned with Respiratory Disorders of Neonates and Children/National Research and Demonstration Centers for Respiratory Disorders of Neonates and Children	September	2
NHLBI, RFA-85-HL-10-H, Specialized Centers of Research in Arteriosclerosis (SCOR-A) and National Research and Demonstration Centers in Arteriosclerosis (NRDC-A)	September	16
NHLBI, RFA-85-HL-02-L, Specialized Centers of Research and National Research and Demonstration Centers: Chronic Diseases of the Airways/Occupational and Immunological Lung Diseases/Pulmonary Vascular Diseases	Dec. 2	1985
NIA/NIAID/NIADDK/NICHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	February	1
NIA/NIAID/NIADDK/NCI/NICHD/NIEHS/NHLBI, Clinical Investigator Award	February	1
NIA, Small Grant Awards for Pilot Projects	February	1
NIA, Health Behaviors and Aging: Behavioral Geriatrics Research	February	1
NIA, Complementary Training Awards for Research on Aging	February	1
NIA, Aging and Visual Perception:		
Program Project Grants	February	1
Individual Postdoctoral Fellowships	February	1
Institutional Research Training	February	1
Research Grants	March	1
New Investigator Awards	March	1
NIA, The Oldest Old:		
Program Project Grants	February	1
Individual Postdoctoral Fellowships	February	1
Research Grants	March	1
New Investigator Awards	March	1
NIA, Geriatric Leadership Academic Award	March	1
NIADDK/NIA, Research on Anorectal Diseases and Disorders:		
Research Career Development Awards	February	1
Institutional Training Projects	February	1
New Investigator Awards	March	1
Research Projects	March	1
NIADDK/NCI/NHLBI/NICHD/NIA/NINCDS, Research on Obesity	March	1
NIADDK/NICHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	March	1
NIADDK/NIA/NIAID/NICHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	March	1
NIAID, Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
Career Development	February	1
Physician Scientist	February	1
Clinical Investigator	February	1
Postdoctoral Fellow	February	1
New Grants	March	1
New Investigator	March	1
NIAID, RFA-85-AI-01, Program Projects on Mechanisms of Immunologic Diseases	June	15

NICHD, The Physiology of Lactation and the Biology of Human Milk (Letter of intent by 1/15/85)	January	15
NICHD, Physical Activity in Pregnancy	March	1
NICHD, Consequences of Infertility and Fertility-Related Problems	March	15
NIDR, Small Grant Program	February	1
NIDR, Dentist Scientist Award	February	1
NIEHS/NIADDK, Effect of Environmental Agents on the Endocrine System	March	1
NIH, Biomedical Research Support Grants (Formula Grants)	January	1
NIH, Research Grants, Renewals	February	1
NIH, Research Career Development Awards	February	1
NIH, Individual Postdoctoral Fellowships	February	1
NIH, Institutional Training Programs	February	1
NIH, Support of Meetings (Scientific, U.S.A. or International)	February	1
NIH, DRR, NMR Resources, Biotechnology Resources Program	February	1
NIH, Research Grants, New	March	1
NIH, New Investigator Awards	March	1
NINCDS, RFA-85-NS-01, Senator Jacob Javits Centers of Excellence in Neuroscience (Letter of intent encouraged by 12/1/84)	January	15
NINCDS, Individual Postdoctoral Fellowships: Speech and/or Language Disorders	February	1
NINCDS, Clinical Investigator Development Award	February	1
NINCDS, Brain Imaging Research Centers (Letter of intent by 12/15/84)	February	15
NINCDS/NIMH, Autism and Related Behavioral Disorders	March	1
NINCDS, Research Grants on Status Epilepticus	March	1
NINCDS, Research Grants on Basic Mechanisms of the Epilepsies	March	1
NLM, Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	March	1

#### NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award <u>for each</u> : School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
NHLBI, Research Training and Development Areas: Short-Term Research Training: Students in Health Professional Schools	February	1
Special Emphasis Research Career: Diabetes Mellitus	June	1
NHLBI, Preventive Cardiology Academic Award	April	1
NHLBI/NIAMDD, SERCA: Diabetes Mellitus-Cardiovascular, Metabolic and Endocrinologic Aspects	June	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NICHD/NIAMDD, SERCA: Diabetes-Mellitus-Obstetrical, Perinatal, and Pediatric Aspects	June	1
NIGMS, NIGMS Shared Instrumentation Grants	February	15



NIH, NRSA for Short-Term Training of Students in Health Professional Schools (Limited to one application per health professional school for a given receipt date)	February	1
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### ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, Renewals	February	1
ADAMHA, Individual Postdoctoral Fellowships	February	1
ADAMHA, Institutional Training Grants, NRSA	February	1
ADAMHA, Research Scientist Development/Research Scientist Award	February	1
ADAMHA/NIH/NCHSR, Research on Digestive Diseases:		
Research Career Development	February	1
Research Grants	March	1
ADAMHA, Research Grants, New	March	1
ADAMHA, Grants, Research on Mental Illness in Nursing Homes	March	1
NIAAAA/NIDA/NIMH, Institutional NRSA Training	February	1
NIDA/NIAAAA, Community Prevention Research in Alcohol and Drug Abuse	January	2
NIDA, Drug Abuse Prevention Research	March	1
NIMH, Rape Centers	February	1
NIMH, Support for Child and Adolescent Mental Health Research and Research Training:		
Individual Postdoctoral Training	February	1
Institutional Research Training	February	1
Research Grants	March	1
NIMH, Child and Adolescent Mental Health Research and Research Training:		
Institutional Training Grants	February	1
Research Grants	March	1
NIMH, Geriatric Mental Health Award	March	1
NIMH, Clinical Investigator Award	March	1
NIMH, Research Grants Program	March	1
NIMH, Physician Scientist Award	March	1
NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders	March	1
NIMH/NIDA, Research on Obesity	March	1
NIMH/NINCDS, Autism and Related Behavioral Disorders	March	1
NIMH, Clinical Research Centers on Psychopathology of the Elderly	March	1

### NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
Research on Digestive Diseases	March	1
Grants for Health Services Dissertation Research	March	15

### OFFICE OF ADOLESCENT PREGNANCY PROGRAMS

Grants for Adolescent Family Life Demonstration Projects	January	31
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## FOOD AND DRUG ADMINISTRATION

Research Grants, Renewals	February	1
Research Grants, New	March	1

## HEALTH CARE FINANCING ADMINISTRATION

Health Financing Research and Demonstration Grants	February	4
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## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Area Health Education Centers, Cooperative Agreements	December	14
Advanced Nurse Training Grants	March	1
Nurse Practitioner Training Grants	March	1
Nurse Special Project Grants	March	1

## DEPARTMENT OF EDUCATION

College Assistance Migrant Program (CAMP)	December	14
High School Equivalency Program (Migrant/Seasonal Farmworkers)-HEP	December	14
Handicapped Children's Early Education Program (NONCOMPETING CONTINUATIONS ONLY)	December	17
National Resource Centers Program and Foreign Language and Area Studies Fellowship Program	December	19
Bilingual Education Programs: Training Projects	December	28
Strengthening Program (NONCOMPETING CONTINUATIONS ONLY)	January	4
Special Needs Program (NONCOMPETING CONTINUATIONS ONLY)	January	4
Challenge Grant Program (NONCOMPETING CONTINUATIONS ONLY)	January	4
Public Service Education Fellowships Program	January	9
Handicapped Children's Early Education Program (NEW APPLICATIONS)	January	10
National Diffusion Network Program (NONCOMPETING CONTINUATIONS ONLY)	January	15
Training Personnel for the Education of the Handicapped (NONCOMPETING CONTINUATIONS ONLY)	February	1

## NATIONAL INSTITUTE OF EDUCATION

Planning Grants and Institutional Grants for Educational Research and Development Centers: Planning Grants	January	4
Institutional Grants	June	6

## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

U.S.-Korea Cooperative Science (NSF 83-50). Proposals for long-term visits and cooperative research. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	January	1
Marine Biological Laboratories. Contact Dr. James Tyler, Division of Biotic Systems and Resources (202) 357-7475	January	2
Postdoctoral Research Fellowships in Plant Biology. Contact Dr. H. T. Huang, Division of Molecular Biosciences (202) 357-9782	January	10
College Science Instrumentation Program (CSIP). Contact Dr. Robert Watson, Directorate for Science and Engineering Education (202) 357-9644	January	11
Research at the Interface of Chemistry and Biology. Contact Dr. Mary Clutter, Division of Cellular Biosciences (202) 357-7905; Dr. James Brown, Division of Molecular Biosciences (202) 357-9400; Dr. Richard Louttit, Division of Behavioral and Neural Sciences (202) 357-7564; or Dr. Arthur Findeis, Division of Chemistry (202) 357-7947	January	15
U.S.-Japan Program of Cooperation in Photoconversion and Photosynthesis (NSF 83-11). Proposals for long- and short-term visits for research; project development 2-week visit letter-proposals are accepted throughout the year. Contact the Division of International Programs (202) 357-9558	January	15
Research Opportunities for Women (NSF 84-42). Contact Dr. Margrete Klein, Division of Research Initiation and Improvement (202) 357-7734	January	15
Ethics and Values in Science and Technology (NSF 83-62). Formal proposals. Contact Dr. Rachelle Hollander, Division of Research Initiation and Improvement (202) 357-7552	February	1
Special Research Initiation Awards for New Investigators in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572	February	6
U.S.-Austria Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	March	1
U.S.-Federal Republic of Germany Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	March	1
Cooperative Science Activities with Denmark, the Netherlands, and Norway (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	March	1
U.S.-Finland Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	March	1

U.S.-Sweden Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	March	1
VLSI (Very Large Scale Integration) Fast Turnaround Fabrication Service for Universities (NSF 83-43). Contact Dr. Andrew Molnar, Directorate for Science and Engineering Education (202) 357-7539	March	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	March	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	March	1
U.S.-India Exchange of Scientists (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	March	15
U.S.-Spain Cooperative Program in Basic Sciences (NSF 84-10). Proposals for cooperative research projects commencing in 1986; joint seminars, exchange of scientists, and short-term visits. Contact the Division of International Programs (202) 357-7554	March	31
U.S.-United Kingdom Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	April	1
U.S.-Australia Cooperative Science (NSF 81-49 as revised Jan. 1982). All proposals for individual visits from one to 12 months by U.S. scientists to Australia for research beginning any time in 1986; other proposals (e.g., seminars, cooperative research exchanges, no cost visits by Australians to the U.S.) with requested effective dates falling between January 1 and June 30, 1986. Contact the Division of International Programs (202) 357-9558	April	1
U.S.-New Zealand Cooperative Science. All proposals for projects with requested effective date falling between January 1 and June 30, 1986. Contact the Division of International Programs (202) 357-9558	April	1
U.S.-France Cooperative Science (NSF 83-73). Proposals for cooperative research projects and joint workshops/seminars with requested effective dates in calendar year 1986. Contact the Division of International Programs (202) 357-7554	May	1
U.S.-Argentina Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Brazil Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1

U.S.-Mexico Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Venezuela Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Latin America and Caribbean Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Japan Cooperative Science (NSF 81-58). Proposals for cooperative research and joint seminar activities are accepted in May each year; proposals for long-term visits (6-12 months) are accepted throughout the year. Contact the Division of International Programs (202) 357-9558	June	1
U.S.-Italy Cooperative Science (NSF 83-73). Proposals for cooperative research projects, joint seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	June	1
U.S.-Switzerland Cooperative Science (NSF 83-73). Proposals for joint research, seminars and long-term research visits. Contact the Division of International Programs (202) 357-7554	June	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	June	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	June	1

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Ocean Drilling Program, U.S. Science. Contact Ms. Sandra Toye, Division of Ocean Sciences (202) 357-9849	January	1
Sub-Saharan Africa Cooperative Science (NSF 84-26). Contact Mr. Robert Bell, Division of International Programs (202) 357-9550	January	1
Anthropology (NSF 84-9). Contact Dr. John Yellen, Division of Behavioral and Neural Sciences (202) 357-7804	January	1
Molecular and Cellular Neurobiology (NSF 84-9). Contact Dr. Joel Colton, Division of Behavioral and Neural Sciences (202) 357-7471	January	1
Psychobiology (NSF 84-9). Contact Dr. Fred Stollnitz, Division of Behavioral and Neural Sciences (202) 357-7949	January	1
Social and Developmental Psychology (NSF 84-9). Contact Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (202) 357-9485	January	1

Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	January	15
Analysis of Science Resources: Personnel Funding, Impacts and Outputs (NSF 80-19, reprint). Contact Personnel: Mr. Morris Cobern (202) 634-4655; Funding: Mr. Norman Friedman (202) 634-4625; Impacts and Outputs: Dr. Robert Wright (202) 634-4682; International Science and Technology: Ms. Jennifer Bond (202) 634-4640, Division of Science Resources Studies	January	18
Ocean Sciences Instrumentation Development. Contact Mr. H. Lawrence Clark, Division of Ocean Sciences (202) 357-7837	February	1
Economics. Contact Dr. James Blackman, Dr. Daniel Newlon, Dr. Lynn Pollnow, or Mr. James Slauch, Jr., Division of Social and Economic Science (202) 357-9675	February	1
Geography and Regional Science. Contact Dr. Ronald Abler, Division of Social and Economic Science (202) 357-7441	February	1
History and Philosophy of Science. Contact Dr. Ronald Overmann or Ms. Bonney Sheahan, Division of Social and Economic Science (202) 357-9677	February	1
Law and Social Sciences. Contact Dr. Felice Levine or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-7569	February	1
Decision and Management Science. Contact Dr. Trudi Miller, Division of Social and Economic Science (202) 357-7569	February	1
Measurement Methods and Data Improvement. Contact Dr. Murray Aborn or Dr. Sara Nerlove, Division of Social and Economic Science (202) 357-7913	February	1
Political Science. Contact Dr. Frank Scioli, Jr., Division of Social and Economic Science (202) 357-7564	February	1
Regulation and Policy Analysis. Contact Dr. Laurence Rosenberg, Division of Social and Economic Science (202) 357-7417	February	1
Sociology. Contact Dr. Joanne Miller, Dr. Thomas Guterbock, or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-7802	February	1
Cell Biology (NSF 83-96). Contact Dr. Gertrude Kasbekar, Division of Cellular Biosciences (202) 357-7474	February	1
Cellular Physiology (NSF 83-96). Contact Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (202) 357-7377	February	1
Developmental Biology (NSF 83-96). Contact Dr. Donald Fosket or Dr. Jane Peterson, Division of Cellular Biosciences (202) 357-7989	February	1
Eukaryotic Genetics (NSF 83-96). Contact Dr. DeLill Nasser, Division of Cellular Biosciences (202) 357-0112	February	1
Regulatory Biology (NSF 83-96). Contact Dr. Elvira Doman, Division of Cellular Biosciences (202) 357-7975	February	1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	February	1
Biochemistry (NSF 83-96). Contact Dr. Arnold Revzin or Ms. Estella Engel, Division of Molecular Biosciences (202) 357-7945	February	1
Biophysics (NSF 83-96). Contact Dr. Arthur Kowalsky or Ms. Brenda Flam, Division of Molecular Biosciences (202) 357-7777	February	1

Developmental Neurosciences (NSF 84-9). Contact Dr. Jean Lauder, Division of Behavioral and Neural Sciences (202) 357-7040	February	1
Linguistics (NSF 84-9). Contact Dr. Paul Chapin, Division of Behavioral and Neural Sciences (202) 357-7696	February	1
Memory and Cognitive Processes (NSF 84-9). Contact Dr. Joseph Young, Division of Behavioral and Neural Sciences (202) 357-9898	February	1
Prokaryotic Genetics (NSF 83-96). Contact Dr. Philip Harriman or Dr. Rolf Benzinger, Division of Molecular Biosciences (202) 357-9687	February	1
Sensory Physiology and Perception (NSF 84-9). Contact Dr. James Larimer, Division of Behavioral and Neural Sciences (202) 357-7428	February	1
Science in Developing Countries. Contact North Africa and Turkey: Mr. Francis Field (202) 357-9402; Sub-Saharan Africa: Mr. Robert Bell (202) 357-9550; South and West Asia: Dr. Osman Shinaishin (202) 357-9402; East Asia: Dr. Gordon Hiebert (202) 357-9537; and Latin America and Caribbean: Ms. Christine French, Division of International Programs (202) 357-9563	March	1
Policy Research and Analysis. Letters of interest and formal proposals may be submitted at any time during the year, but those submitted prior to March 15, 1985, will have the greatest likelihood of being funded during the fiscal year, which ends September 30, 1985. Contact Dr. Roger Shull, Division of Policy Research and Analysis (202) 357-9689	March	15
Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	April	30
Ethics and Values in Sciences and Technology (NSF 83-62). Preliminary Proposals. Contact Dr. Rachele Hollander, Division of Research Initiation and Improvement (202) 357-7552	May	1
U.S.-Eastern European Cooperative Science (NSF 81-27). Bulgaria, Hungary, and Romania: Contact Ms. Deborah Wince (202) 357-9516. Czechoslovakia and German Democratic Republic: Contact Dr. Gerson Sher, Division of International Programs (202) 357-7494	May	1
Doctoral Dissertation Research in Biotic Systems and Resources (NSF 83-71). Contact Dr. James Edwards. Division of Biotic Systems and Resources (202) 357-9588	May	1
Climate Dynamics. Contact Dr. Thomas Crowley, Division of Atmospheric Sciences (202) 357-9892	May	1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	June	1
Ocean Drilling Program, U.S. Science. Contact Ms. Sandra Toye, Division of Ocean Sciences (202) 357-9849	June	1
U.S. Antarctic Research (NSF 82-34). Funding to support field work in Antarctica during the 1986/87 austral summer and 1987 winter). Contact Mr. Guy Guthridge, Division of Polar Programs (202) 357-7766	June	1
Metabolic Biology (NSF 83-96). Contact Dr. William van B. Robertson or Ms. Carter Kimsey, Division of Molecular Biosciences (202) 357-7987	June	3
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	June	14

Ecosystem Studies. Contact Dr. James Gosz, Division of Biotic Systems and Resources (202) 357-9596	June	14
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	June	14
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	June	14

\*NSF Proposals may be submitted for the following programs at any time of the year. It takes approximately six to nine months to process a proposal. Brochures indicated in parentheses may be ordered.

U.S.-Korea Cooperative Science (NSF 83-50). Short-term visits only. Contact Dr. Gerald Edwards (202) 357-9537	*
U.S.-East Asia Cooperative Science (NSF 83-50). Short-term visits only to the Philippines and Korea. Contact Dr. Gerald Edwards (202) 357-9537	*
U.S.-East Asia Cooperative Science (NSF 83-50). Excluding Philippines and Korea. Contact Dr. Gordon Hiebert (202) 357-9537	*
U.S.-India Cooperative Science (NSF 82-86). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402	*
U.S.-Pakistan Cooperative Science (NSF 80-49). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402	*
U.S.-China Cooperative Science (NSF 82-50). For information regarding field limitations contact Dr. Pierre Perrolle or Mr. Alexander DeAngelis (202) 357-7393	*
U.S.-Belgium Cooperative Science (NSF 83-73). Cooperative research projects, joint seminars (202) 357-7554	*
U.S.-Japan Cooperative Science (NSF 81-58). Proposals from U.S. investigators for long-term visits to spend from 6 to 12 months conducting research in Japan (202) 357-9558	*
U.S.-Japan Program for Cooperation in Photoconversion and Photosynthesis (NSF 83-11). Letter-proposals for visits up to two weeks in Japan to plan formal research in cooperation with Japanese investigators in the areas of photoconversion and photosynthesis (202) 357-9558	*
NSF-NATO Exchange for International Academic-Industrial Exchanges of U.S. Scientists (Double Jump). Postdoctoral program for the exchange of scientists from the academic and industrial communities of the U.S. and NATO member countries (202) 357-7554	*
U.S.-New Zealand Cooperative Science (NSF 81-50). Letter- proposals for short-term visits (limited to air fare and up to three weeks' per diem) to develop cooperative research in physical oceanography, air/sea interaction, marine geology, geophysics or biology (marine productivity) (202) 357-9558	*
Research in Undergraduate Institutions (NSF 83-79). Contact appropriate disciplinary program in NSF for more specific target dates and number of copies of proposals needed or contact Dr. Joseph Danek, Director of Special Projects, Division of Research Initiation and Improvement (202) 357-7456	*
Minority Research Initiation (NSF 80-42). Contact Dr. Roosevelt Calbert (202) 357-7350	*



Synthetic Inorganic and Organometallic Chemistry  
 (NSF 83-57). Contact Dr. Oren Williams (202) 357-7499 \*

Synthetic Organic and Natural Products Chemistry (NSF 83-57).  
 Contact Dr. John Showell (202) 357-7499 \*

Chemical Analysis (NSF 83-57). Contact Dr. Henry Blount, III  
 (202) 357-7503 \*

Chemical Instrumentation (NSF 83-57). Contact Dr. John  
 Hunt (202) 357-7960 \*

Structural Chemistry and Thermodynamics (NSF 83-57).  
 Contact Dr. William Harris (202) 357-9826 \*

Chemical Physics (NSF 83-57). Contact Dr. William Cramer  
 (202) 357-7951 \*

Chemical Dynamics (NSF 83-57). Contact Dr. Richard  
 Holder (202) 357-7956 \*

Instrumentation for Materials Research (NSF 82-79).  
 Contact Dr. William Oosterhuis (202) 357-7570 \*

National Facilities. Contact Dr. Dean Mitchell  
 (202) 357-9791 \*

Materials Research Laboratory. Contact Dr. Adriaan  
 de Graaf (202) 357-9791 \*

Materials Research Group. Contact Dr. W. Lance Haworth  
 (202) 357-9791 \*

Atomic, Molecular, and Plasma Physics. Contact  
 Dr. Rolf Sinclair (202) 357-7997 \*

Elementary Particle Physics. Contact Dr. David Berley  
 (202) 357-9575 \*

Gravitational Physics. Contact Dr. Richard Isaacson  
 (202) 357-7979 \*

Intermediate Energy Nuclear Physics. Contact Dr. Peter  
 Riley (202) 357-7992 \*

Nuclear Physics. Contact Dr. William Rodney (202) 357-7992 \*

Theoretical Physics. Contact Dr. Boris Kayser (202) 357-7979 \*

Aeronomy. Contact Dr. Andrew Christensen (202) 357-7619 \*

Atmospheric Chemistry. Contact Dr. Jarvis Moyers  
 (202) 357-9657 \*

Experimental Meteorology. Contact Dr. Richard Greenfield  
 (202) 357-9887 \*

Global Atmospheric Research. Contact Dr. Jay Fein  
 (202) 357-9887 \*

Meteorology. Contact Dr. Ronald Taylor (202) 357-7624 \*

Solar Terrestrial. Contact Dr. Dennis Peacock (202) 357-7618 \*

Upper Atmospheric Facilities. Contact Dr. Richard Behnke  
 (202) 357-7390 \*

Astronomical Instrumentation and Development. Contact  
 Dr. G. W. Van Citters, Jr. (202) 357-9793 \*

Extragalactic Astronomy. Contact Dr. James Wright  
 (202) 357-7639 \*

Galactic Astronomy. Contact Dr. Kurt Weiler (202) 357-7620 \*

Solar System Astronomy. Contact Dr. Kurt Weiler  
 (202) 357-7620 \*

Stars and Stellar Evolution. Contact Dr. Peter Pesch  
 (202) 357-7622 \*

Electromagnetic Spectrum. Contact Dr. Vernon Pankonin  
 (202) 357-9696 \*

Anthropology. Docotral Dissertation Proposals. Contact  
 Ms. Mary Greene, Division of Behavioral and Neural  
 Sciences (202) 357-7804 \*

Biological Research Resources. Contact Dr. James Tyler,  
 Division of Biotic Systems and Resources (202) 357-7475 \*

Industry/University Cooperative Research Projects (NSF  
 82-56). Contact Dr. Frederick Betz (202) 357-7785 or  
 Mr. Alex Schwarzkopf (202) 357-7527, Division of  
 Industrial Science and Technology Innovation. \*

Industry/University Cooperative Research Centers. Contact  
 Mr. Robert Colton or Mr. Alex Schwarzkopf, Division of  
 Industrial Science and Technological Innovation  
 (202) 357-7527 \*

Research in Information Science and Technology (NSF 81-34  
 and 81-69). Contact Dr. Charles Brownstein, Division of  
 Information Science and Technology (202) 357-9572 \*

Alternative Biological Resources (NSF 83-96). Contact  
 Dr. H. Huang, Division of Molecular Biosciences  
 (202) 357-9782 \*

Mathematical Sciences. Programs for disciplinary research  
 include Classical Analysis, Modern Analysis, Geometric  
 Analysis, Topology and Foundations, Algebra and Number  
 Theory, Applied Mathematics, and Statistics and  
 Probability. Contact the appropriate disciplinary program  
 for guidelines for the submission of proposals. Division  
 of Mathematical Sciences (202) 357-9764 \*

## NATIONAL INSTITUTE OF JUSTICE

Psychological Effects of Criminal Victimization	January	15
Graduate Research Fellowships	March	1
Unsolicited Research Program	June	1

## U.S. DEPARTMENT OF AGRICULTURE

Postmark deadlines for proposals submitted for USDA's FY 1985 Competitive  
 Research Grants Program are as follows:

Biological Nitrogen Fixation	December	17
Human Requirements for Nutrients	December	17

## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Graduate Student Researchers Program	February	1
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## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts Visiting Senior Fellowships and Associates (For 9/16/85-2/28/86)	March	21
(For 3/1/86-8/31/86)	September	21

## U.S. INFORMATION AGENCY

President's International Youth Exchange	December	31
University Affiliation Program	February	1

## NONFEDERAL

THE ORA CONTACT NUMBER FOR NONFEDERAL DEADLINE/PROGRAM INFORMATION IS 373-1970.

American Chemical Society - Petroleum Research Fund Grants-in-Aid	No Deadline
American Council of Learned Societies Grants-in-Aid	December 17
American Diabetes Association Lions Clubs International Research Program	December 21
American Heart Association-Minnesota Affiliate Grants-in-Aid	December 15
American Institute for Foreign Study Faculty Development Positions Abroad (suggested deadline)	March 15
American Numismatic Society	March 1
American Philosophical Society Grants-in-Aid	Various--Contact ORA
Andrew W. Mellon Foundation	No Deadline
Apple Education Foundation Wheels for the Mind Donation Campaign	December 14
Arthritis Foundation-Minnesota Affiliate	February 15
Bosch Foundation Fellowship Program	No Deadline
Boston University University Professors Postdoctoral Fellowship	March 1
Brown Foundation	No Deadline
Burroughs Wellcome Fund Molecular Parasitology	January 15
Pharmacoepidemiology	February 15
Carnegie Corporation	No Deadline
Center for Field Research (Earthwatch) Latin America Field Research Grants	No Deadline
Cystic Fibrosis Student Traineeships	February 1
Damon Runyon Walter Winchell Cancer Fund Fellowship Grants	December 15
Human Cancer-Directed Fellowship Grants	December 15
Dana Foundation	No Deadline
Delta Society	January 15
Distilled Spirits Council of the United States Grants-in-Aid for Research	February 1
Edna McConnell Clark Foundation	No Deadline
Exxon Education Foundation	No Deadline
Ford Foundation	No Deadline
Gas Research Foundation Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
General Motors Foundation	No Deadline
German Marshall Fund Short-Term Travel Awards	No Deadline
Hewlett Foundation	No Deadline
International Research and Exchanges Board (IREX) Developmental Fellowships	March 15
USSR Exchange of Language Teachers for Summer 1985	January 15
Travel Grants for Senior Scholars	January 31
	April 30
Juvenile Diabetes Research Grant Applications	March 1
Kaiser Family Foundation	No Deadline

Kellogg Foundation	
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
Ladies Auxiliary/Veterans of Foreign Wars	February 15
Lilly Endowment	No Deadline
MacArthur Foundation	No Deadline
March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Education	January 1
Medical Services	January 1
Mathers Charitable Foundation	Continuous
McKnight Foundation	
Scholars Award	January 2
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
Small Grants	No Deadline
Minnesota Medical Foundation	December 30
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Association	
Grants-in-Aid	
Request for Application	November 30
Final Application	December 31
National Association of Animal Breeders	February 1
National Foundation for Ileitis and Colitis	February 1
National Foundation for Infectious Diseases	
Fellowship in Infectious Diseases/Lilly	February 1
Fellowship in Infectious Diseases/Upjohn	February 1
Postdoctoral Fellowship in Medical Mycology/Janssen	March 1
Postdoctoral Fellowship in Nosocomial Infection/Roerig	March 15
Postdoctoral Fellowship in Nosocomial Infection/Beecham	March 15
National Geographic Society	
Grants-in-Aid	No Deadline
National Multiple Sclerosis Society	
Research Grants	February 1
Postdoctoral Fellowships	February 1
Junior Faculty Awards	February 1
National Pork Producers Council	December 15
Orthopaedic Research and Education Foundation	
Resident Research Fellowships	February 15
Paralyzed Veterans of America	
Research Proposals	January 1
Design Development Proposals	January 1
Pew Memorial Trust	Continuous
Pharmaceutical Manufacturers Association Foundation	
Development Grants/Clinical Pharmacology Units	January 1
Medical Student Research Fellowships/Pharmacology	January 15
Fellowship Awards in Pharmacology/Morphology	January 15
Research Corporation	
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline
Rockefeller Brothers Fund, Inc.	No Deadline

Scottish Rite Schizophrenia Research Program		
Dissertation Research Fellowship Awards		
Preapplication Letter	February	1
Final Application	March	1
Research Grant Awards		
Preapplication Letter	January	1
Final Application	March	1
Sloan Foundation	No	Deadline
Southeastern Poultry and Egg Association	No	Deadline
Technicon Instruments Corporation		
Grants for Research in Biomedical and Industrial		
Instrumentation		
Pre-proposals	No	Deadline
Tinker Foundation		
Field Research in Portugal, Spain or Latin America	No	Deadline
University Genetics Company (UGEN)	No	Deadline
Villers Foundation	No	Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

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# ORA/RDC Newsletter

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JANUARY 1985

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## REMINDER - THE BA FORM 23 PROCESS

Principal Investigators are reminded of the institutional policy requiring completion of the BA Form 23, "Application for External Research or Training Support," on all applications for new, renewal and continuation support. Preliminary proposals and revised budgets do not require the BA Form 23; however, collegiate or departmental offices may have additional policy requirements in this regard. In addition, if projects involve resources or staff from more than one department or college (whether budgeted or contributed), approval signatures must be obtained on the BA Form 23 from all involved department heads and deans.

## REVIEW PROCEDURES - NIH GRANT APPLICATIONS

As was announced in the November 1984 issue of the *ORA/RDC Newsletter*, the National Institutes of Health (NIH) indicated that if principal investigators need to submit additional application materials to initial review groups prior to review and do not know the identity of the Executive Secretary or the Study Section, the materials should be sent to the Referral Section of the Referral and Review Branch of the Division of Research Grants. This should be corrected to state that applicants who have not received notification of Study Section assignment within six weeks following the receipt date and who need to communicate with NIH staff or submit additional materials should call the Referral Section for information before mailing anything. The number to call is (301) 496-7324.

## FOOD AND DRUG ADMINISTRATION (FDA) RFP: CLINICAL TRIALS ON SAFETY AND EFFECTIVENESS OF ORPHAN PRODUCTS

The FDA has announced a FY 1985 commitment to award approximately 20-30 grants ranging from \$20,000-\$70,000 each in support of clinical trials on safety and effectiveness of orphan products. FDA will consider only clinical studies for determining whether the products are safe and effective for premarket approval under the Federal Food, Drug, and Cosmetic Act including the addition of new uses for marketed drugs for those products nominated which meet the definition of orphan products. Orphan products are drugs, biologics, medical devices (including in vitro diagnostics), food for medical purposes, and veterinary products that may be useful in an uncommon or common disease but lack committed commercial sponsorship. Complete information and application materials may be obtained from ORA at 373-5925. Deadline: February 5, 1985.

## NATIONAL INSTITUTE OF MENTAL HEALTH (NIMH) RFA: AMERICAN INDIAN MENTAL HEALTH AND DEVELOPMENT CENTER

The NIMH will award a grant to support an American Indian Mental Health Research and Development Center to develop and carry out innovative, multidisciplinary studies on the mental health problems and needs of American Indians. The Center should have a nucleus of experienced mental health researchers who will direct their energies toward the conceptualization, development, and conduct of research programs addressing the incidence, diagnosis, treatment, and prevention of mental illness among American Indian populations. Research activities that primarily focus on gaining insight into the nature of mental illness and its expression in American Indian populations through the development of methodologically sound studies should be a major objective of the Center. In addition, the Center should serve as a resource for the training of both new and established American Indian mental health researchers; disseminate information stemming from the Center's ongoing research programs via appropriate scientific and professional outlets; and provide an environment which will assure high-level research leadership in the area of American Indian mental health. The applicant organization must demonstrate experience and capability in conducting mental health research and have a strong relationship or base in a research-oriented facility, agency, or institution. In-depth experience with American Indian mental health issues and access to American Indian populations are vital. Eligible applicants include any U.S. nonprofit or for-profit organizations capable of meeting the stated criteria. Complete information and application materials may be obtained from ORA at 373-5925. Deadline: March 1, 1985.

## NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH) RFA: RESEARCH AND DEMONSTRATIONS RELATING TO OCCUPATIONAL SAFETY AND HEALTH

The Centers for Disease Control (CDC), NIOSH, has announced that competitive grant applications are being accepted for research and demonstrations relating to occupational safety and health. These include innovative methods, techniques, and approaches for dealing with occupational safety and health problems in general industry and in the mining industry. Following are examples of work-related programmatic interest to NIOSH which are to be viewed as selected samples, not comprehensive definitions of the category:

1. Occupational lung disease: asbestosis, byssinosis, silicosis, coal workers' pneumoconiosis, lung cancer, occupational asthma.
2. Musculoskeletal injuries: disorders of the back, trunk, upper extremity, neck, lower extremity; traumatically induced Raynaud's phenomenon.
3. Occupational cancers (other than lung): leukemia; mesothelioma; cancers of the bladder, nose and liver.
4. Amputations, fractures: eye loss, lacerations, and traumatic deaths.
5. Cardiovascular diseases: hypertension, coronary artery disease, acute myocardial infarction.
6. Disorders of reproduction: infertility, spontaneous abortion, teratogenesis.
7. Neurotoxic disorders: peripheral neuropathy, toxic encephalitis, psychoses, extreme personality changes (exposure-related).



8. Noise-induced loss of hearing.
9. Dermatologic conditions: dermatoses, burns (scalding), chemical burns, contusions (abrasions).
10. Psychologic disorders: neuroses, personality disorders, alcoholism, drug dependency.
11. Control technology research: application of scientific principles to control strategies; preconstruction review; technology forcing/new source performance concepts; technology transfer; substitution; unit operations approaches.
12. Respirator research: new and innovative respiratory protective devices; techniques to predict performance; effectiveness of respirator programs; physiologic and ergonomic factors; medical surveillance strategies; psychological and motivational aspects; effectiveness of sorbents and filters, including chemical and physical properties.

Further information and application materials may be obtained from ORA at 373-5925. Deadlines: February 1 (SERCA/Small Grants) and March 1, 1985.

#### **NIOSH ANNOUNCES RESEARCH AWARDS**

The National Institute for Occupational Safety and Health announces outstanding opportunities for research in bioengineering, biochemistry, immunology, mutagenesis, pathology, physiology and pharmacology. The National Research Council in cooperation with the National Institute for Occupational Safety and Health will offer competitive research awards in 1985 for independent scientific research. Recipients will be free to work on problems of their own choice as guest investigators at NIOSH. This program is open to experienced senior scientists as well as to recent Ph.D. and M.D. graduates. For further information and application materials please write to: Associateship Programs (JH608/NI-1), National Research Council, 2101 Constitution Avenue N.W., Washington, DC 20418. Deadlines: January 15, April 15 and August 15, 1985.

#### **NIAID ANNOUNCES MINORITY RESEARCH ENHANCEMENT PROGRAM**

The National Institute of Allergy and Infectious Diseases (NIAID) will provide support for under-represented minority researchers through the Minority Research Enhancement Program (MREP). A minority investigator is defined as a Black, Hispanic, Native American, Asian or Pacific Islander. Institutions with NIAID grants and interested in including under-represented minority investigators in such research endeavors may submit a supplemental grant application for this purpose. Meritorious applications will be funded as supplements to previously peer-reviewed active grants. These may include, but are not limited to, regular research project (R01) and program project (P01) grants. Complete information and application materials may be obtained from ORA at 373-5925. Deadline: Open (Review dependent on NIAID Council meeting schedule.).

## **NIADDK, DDEM D ANNOUNCES SCIENTIFIC INSTRUMENTATION GRANT AVAILABILITY**

The Division of Diabetes, Endocrinology and Metabolic Diseases (DDEM), National Institute of Arthritis, Diabetes, Digestive and Kidney Diseases (NIADDK), has announced the availability of funds for the purchase of moderately priced scientific instrumentation (\$5,000 to \$50,000). This program is being established to provide a mechanism for biomedical researchers to update and expand their capabilities to perform state-of-the-art research. This program is designed to fill the gap between large, expensive instrumentation grants provided by the Biomedical Research Support Grant Program (BRS) of the Division of Research Resources (DRR) (greater than \$100,000) and individual project grants (R01). The mechanism of support will be the grant-in-aid. Grants will be awarded as supplements to the principal investigator's active R01 grant. The principal investigator must hold an active R01 grant supported by DDEM related to the proposed use of the instrument. Co-investigators must have active research grant support (R01) from the NIH. Each investigator can only have his/her name listed on one application under this program announcement per year. Complete information and application materials may be obtained from ORA at 373-5925. Deadline: April 15, 1985.

## **NIEHS ANNOUNCES REQUEST FOR SPECIALIZED CENTERS OF RESEARCH (SCOR'S)**

A National Institute of Environmental Health Sciences (NIEHS) SCOR grant is an institutional award, made in the name of a principal investigator, for the support of a large interrelated research program developed in response to a request by the NIEHS for research focused on a specific problem. It is awarded competitively, initially for not less than three or more than five years, and may be renewed for periods up to five years. It provides support for both research projects and the core support services used by those projects. The activities included in the supported research comprise a multidisciplinary approach to environmental biomedical and/or behavioral problems.

Beyond meeting the standard eligibility criteria for institutions applying for NIH research grants, an applicant for a P50 Specialized Center of Research (SCOR) Grant must propose a program of three or more related and integrated research projects of high quality that provide a multidisciplinary, yet unified, approach to the problem(s) to be investigated. Scientific personnel and institutional resources capable of providing a strong research base in the field specified must be available. The institution and pertinent departments have to show a strong commitment to the center's support.

A NIEHS Specialized Center of Research (SCOR) is an identifiable unit within a sponsoring institution with a strong commitment to a specific activity in the field of environmental health. Each SCOR conducts its own research program based on local interest and talents. Each research program consists of a sustained series of individual, but closely related, research projects, each with high scientific merit and clear research objectives. A SCOR may address more than one issue; however, a central theme unifying the research projects is required. A SCOR may also include one or more core resources, which perform specialized service activities such as biochemical analysis, pathology, or data management. These activities are shared by several or all investigators. The core investigators, in addition to performing service functions, may also conduct research projects.

NIEHS has announced the following areas of availability for SCOR projects: (1) Genetic Toxicology; (2) Marine and Freshwater Biomedical Sciences; and (3) Central Nervous System Neurotoxicology. Complete information and application materials may be obtained from ORA at 373-5925. Deadline: March 1, 1985.

#### **NHLBI ANNOUNCES SHARED RESEARCH FACILITIES GRANT PROGRAM**

The National Heart, Lung, and Blood Institute (NHLBI) has announced a grant program to support the improvement, renovation, and establishment of modern research facilities relevant to contemporary biomedical sciences (e.g., molecular biology) in organizations with substantial, ongoing research activities in heart, lung, and blood diseases. The goal of this program is to expand and/or create physical resources for the application of modern, sophisticated technology to fundamental research in heart, lung, and blood diseases. Any domestic, nonprofit organization with existing, high quality research activities in heart, lung, and blood diseases (that receives at least \$5 million/year total costs, in peer-reviewed NIH support for such research) may apply. The Institute's appropriation for FY 1985 includes \$3.3 million for construction and renovation of research facilities. The use of these funds is limited to the repair, remodeling, improvement, or creation of facilities utilized by groups of investigators currently being supported by NHLBI. These grants, awarded on a competitive basis, will be limited to a maximum of \$500,000 total costs. Awards, after competitive review, will be issued on a matching basis--at least one-third to be provided from nonfederal sources. AN INSTITUTION MAY SUBMIT ONLY ONE APPLICATION UNDER THIS ANNOUNCEMENT. The application may, however, request funds for more than one shared research facility. Complete information and materials may be requested from ORA at 373-5925. Deadline: Letter of Intent by February 1, 1985; Proposal by March 1, 1985.

#### **NASA - SUMMER FACULTY FELLOWSHIPS**

National Aeronautics and Space Administration (NASA) summer faculty fellowships are available for U.S. citizens with teaching or research appointments in universities or colleges, preferably with a minimum of two years of experience. Research fellowships are awarded to engineering and science faculty members for summer research in a NASA-university cooperative program. Fellows will conduct projects of mutual interest to the fellow and NASA center. Stipends are \$650 per week for ten weeks and a travel allowance will be paid. For more information, contact Mary Bergaas, ORA, at 373-2784. Deadline: February 1, 1985.

#### **NATIONAL BUREAU OF STANDARDS - FIRE RESEARCH GRANTS**

The Center for Fire Research has renewed its competitive research program for FY 1985 and will accept proposals in eight research areas. It is expected that \$1.85 million in research grants and contracts will be awarded in 1985. Topics include exploratory fire research, fire toxicology, furnishings flammability, fire performance and validation, smoke hazard calculation, fire growth and extinction, compartment fire models and fire safety performance. For information, contact Dr. Robert Levine, Chief, Office of Fire Research Services, Center for Fire Research, National Bureau of Standards, Gaithersburg, MD 20899, (301) 921-3845. No due date has been set for proposals.

## **NSF PUBLICATIONS AVAILABLE**

Copies of the following publications may be requested from ORA by calling 373-2784: (1) *Access to Supercomputers*, an NSF program announcement; and (2) *Earth Sciences Research and NSF*, a publication describing opportunities for support of research in the earth sciences.

## **NSF REORGANIZATION**

The Division of Physiology, Cellular and Molecular Biology of the National Science Foundation (NSF) has been separated into two new divisions: Molecular Bioscience and Cellular Bioscience. The Genetic Biology program has also been subdivided into: Prokaryotic Genetics and Eukaryotic Genetics.

## **NATIONAL RESEARCH COUNCIL ASSOCIATESHIP PROGRAM**

The National Research Council in cooperation with selected Federal laboratories will offer approximately 250 awards in 1985 for independent scientific research in the fields of chemistry; earth and atmospheric sciences; engineering, mathematics and applied sciences; life and medical sciences; space and planetary sciences; and physics. Recipients will be free to work on problems of their own choice as guest investigators at the participating Federal laboratories. Many of the 22 programs are open to experienced senior scientists as well as to recent Ph.D.'s. For further information and application materials, please write to: Associateship Programs (JH608/S-4), National Research Council, 2101 Constitution Avenue N.W., Washington, DC 20418. Deadlines: January 15, April 15 and August 15, 1985.

## **AAAS CONGRESSIONAL SCIENCE AND ENGINEERING FELLOWSHIPS**

The American Association for the Advancement of Science (AAAS) invites applications for two, one-year Congressional Science and Engineering Fellowships it will offer for the period beginning September 1, 1985. The fellowship program provides an opportunity for accomplished and societally aware postdoctoral to mid-career scientists and engineers to participate in and contribute to the public policy-making processes within the Congress for approximately one year. Fellows work as special legislative assistants within the congressional staff system. In order to obtain detailed information on the program and specific application requirements write: Congressional Science and Engineering Fellow Program, American Association for the Advancement of Science, 1776 Massachusetts Avenue N.W., Washington, DC 20036. Deadline: February 1, 1985. The award will be announced around May 1, 1985.

## **ERNA AND VICTOR HASSELBLAD FOUNDATION RESEARCH GRANTS**

The Erna and Victor Hasselblad Foundation will award grants for the year 1985 in order to promote scientific research and education in the field of natural science and photography. Applications for grants should reach the Foundation in duplicate not later than March 31, 1985. Application forms may be obtained from the Erna and Victor Hasselblad Foundation, S-405 04, Gothenburg, Sweden.

## **NEW GRANTS PROGRAM OF J. PAUL GETTY TRUST**

The J. Paul Getty Trust in Los Angeles plans to give as much as \$15 million annually in grants to arts institutions to support art education, scholarship and other activities. Grants will be awarded for scholarship in the history of art and the humanities, for museum programs to interpret works of art in permanent collections, for education in the arts, and for the conservation of art works. The program has primarily been established to help create new possibilities for other institutions that lack resources of their own.

## **POSTDOCTORAL FELLOWSHIPS FOR MINORITIES**

The National Research Council plans to award approximately 35 Postdoctoral Fellowships for Minorities in a program sponsored by the Ford Foundation and designed to provide opportunities for continued education and experience in research for American Indians and Alaskan Natives (Eskimo or Aleut), Black Americans, Mexican Americans/Chicanos, and Puerto Ricans. Awards will be made in the behavioral and social sciences, humanities, engineering, mathematics, physical sciences, and biological sciences, or for interdisciplinary programs comprised of two or more eligible disciplines. Fellows will be selected from among scientists, engineers, and scholars in the humanities who show greatest promise of future achievement in academic research and scholarship in higher education. A copy of the complete program announcement may be obtained from ORA by calling 373-1970. Requests for application materials should be addressed to the Fellowship Office, National Research Council, 2101 Constitution Avenue, Washington, DC 20418. Deadline: January 16, 1985.

## **NEW BASIC EYE RESEARCH PROFESSORSHIPS FUNDED**

In an attempt to lure highly qualified basic scientists into the study of impaired vision, Research to Prevent Blindness will finance professorships at some 50 medical schools. The five-year awards will each be \$250,000. Recipients will carry out research in ophthalmology but will also hold an appointment in a basic specialty such as microbiology, biochemistry or virology. For now, awards will be made at a selected group of institutions with nationally known ophthalmology departments. For further information, contact Research to Prevent Blindness Inc., Jules and Doris Stein Professorship Program, 598 Madison Avenue, New York, NY 10022.

## **AMERICAN CANCER SOCIETY (ACS) INSTITUTIONAL RESEARCH GRANT AWARD**

The University of Minnesota has been awarded a renewal of its Institutional Research grant from the ACS for 1984-1985. This fund is intended to serve as "seed" money permitting the initiation of promising new projects or novel ideas, especially by junior investigators, in cancer-related research. Encouragement of cancer research may also be facilitated by support of seminars on cancer-related topics, and by graduate student research. The fund is administered by a Dean's Committee of the Medical School with representation from other biologically-oriented colleges. The Committee is now accepting applications for individual grants not to exceed \$7,500 from this fund with a deadline date of February 15, 1985. Instructions and application forms may be obtained from the Dean's Committee for the ACS Institutional Research grant, Room 421 Masonic Cancer Center, 373-4318.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

### FEDERAL

THE ORA CONTACT NUMBERS FOR FEDERAL DEADLINE/PROGRAM INFORMATION ARE AS FOLLOWS:

DEPARTMENT OF HEALTH AND HUMAN SERVICES	373-5925
DEPARTMENT OF EDUCATION	373-5925
OTHER FEDERAL AGENCIES	373-2771

### NATIONAL INSTITUTES OF HEALTH

DRR, Shared Instrumentation Grant (Biomedical Research Support)	February	15
DRR, Biomedical Research Support Shared Instrumentation Grants	February	15
DRR, RFA-85-RR-01, Developing and Improving Institutional Animal Resources	March	1
Fogarty International Center, Eastern European Scientist Exchange Program	Open	
Fogarty International Center, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
Fogarty, Biomedical Research Fellowship Opportunities Abroad:		
Alexander von Humboldt Awards (West Germany)	Open	
Fogarty, Senior International Fellowship Program	January	15
NCI, Cooperative Agreement 85-CA-01, Cooperative Group for Studies on Mutagens in Human Foods	January	15
NCI, Cancer Education Program	February	1
NCI, The NCI Clinical Investigator Award	February	1
NCI, Predoctoral Research Fellowships for Oncology Nurses (Letter of intent by 1/1)	February	1
NCI/NIAID/NIADDK/NICHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases:		
Research Career Development	February	1
Research Grants	March	1
NCI, Cancer Control Small Grants Research Program	February	12
NCI, Biochemistry and Pharmacology Program	March	1
NCI, Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	March	1
NCI, Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	March	1
NCI, Prediction of Tumor Response to Radiation Therapy	March	1
NCI, Medical Imaging for Diagnosis and Treatment of Cancer	March	1

NCI, Research on Biological Response Modifiers	March	1
NCI, RFA-85-CA-03, Cytogenetics and Predisposition to Cancer	March	15
NCI, RFA-85-CA-07, Smoking Prevention and Cessation Among Women (Letter of intent by 2/15)	March	15
NCI, RFA-85-CA-08, Prevention and Cessation of Use of Smokeless Tobacco (Letter of intent by 2/15)	March	15
NCI, RFA-84-CA-08, Cancer Control Research Units (REVISED DATES, Letter of intent by 2/4)	June	11
NEI, Small Grants Program for Pilot Projects	February	1
NEI, Retinal and Choroidal Diseases Research:		
Individual Postdoctoral Fellowships	February	1
Institutional Research Training	February	1
Research Grants	March	1
NEI, Strabismus, Amblyopia and Visual Processing:		
Individual Postdoctoral Fellowships	February	1
Institutional Research Training	February	1
Research Grants	March	1
NEI, Research on Basic Mechanisms of Retinal Phototoxicity	March	1
NEI/NIAID, Immunological Aspects of Ocular Disease	March	1
NHLBI, RFA-85-HL-24-H, Minimally Invasive Techniques for Characterization of Atherosclerotic Plaque	January	15
NHLBI, RFA-85-HL-14-H, Myocardial Proteins in Cardiac Diseases	January	15
NHLBI, RFA-85-HL-11-H, Studies on the Sex Differences in Coronary Arteriosclerosis and the Possible Roles of Sex Steroids	January	15
NHLBI, Clinical Investigator Award	February	1
NHLBI, Research Career Development Award: Basic Science Related to the Respiratory System	February	1
NHLBI, Career Development Programs for Physicians in Cardiac and Vascular Research in Cerebrovascular Disease:		
Physician Scientist Award	February	1
Clinical Investigator Award	February	1
NHLBI, Research Training and Development Areas:		
Institutional Research Training Grant	February	1
Individual Postdoctoral Fellowship	February	1
Senior Research Fellowship	February	1
Research Career Development	February	1
Clinical Investigator Award	February	1
Physician Scientist Award	February	1
New Investigator Research Award	March	1
NHLBI, RFA 85-HL-03-B, Inhibitor Formation in Hemophilia	February	15
NHLBI, RFA 84-HL-15-B, Specialized Centers of Research in Thrombosis/National Research and Demonstration Center in Thrombosis	February	15
NHLBI, Mechanisms of Platelet Refractoriness (Letter of intent by 12/1)	February	15
NHLBI, RFA 85-HL-25-P, Research in Nutrition and Cardiovascular Diseases	February	15
NHLBI, RFA-85-HL-23-P, Workplace Demonstration and Education Research in Cardiovascular Diseases	February	15
NHLBI, RFA-85-HL-22-P, Behavioral Stress, Neuroactive Peptides, and Cardiovascular Disease	February	15
NHLBI, RFA-85-HL-21-P, Smoking Cessation in Patients with Cardiovascular Disease	February	15

NHLBI, RFA-85-HL-20-P, Exercise, Stress and Atherosclerosis	February	15
NHLBI, Childhood Nutrition, Physical Activity, and CV Health	February	15
NHLBI, Fundamental Studies of Normal and Abnormal Cardiac Rhythm	February	15
NHLBI, Surfactants for Perflurochemicals	March	1
NHLBI, Demonstration and Education Research Related to Pulmonary Disease	March	1
NHLBI, Arrhythmia Detection and Discrimination from Electrograms	March	1
NHLBI, Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young	March	1
NHLBI, Minimally Invasive Measurement of Blood Pressure in the Heart and Central Arteries	March	1
NHLBI, Development of Genetic Hypertensive Animal Models	March	1
NHLBI, Blood Transfusion and Cytomegalovirus Infection	March	1
NHLBI, RFA-85-HL-26, Alterations and Renovations to Establish NHLBI Shared Research Facilities	March	1
NHLBI, RFA-85-HL-17-H, Molecular Mechanisms Controlling Myocardial Growth and Hypertrophy	March	15
NHLBI, Protection of the Immature Myocardium	March	15
NHLBI, RFA-85-HL-07-H, Cell Biology of the Vasculature in the Pathogenesis of Hypertension	April	1
NHLBI, RFA-85-HL-06-H, Blood Vessels of the Brain and Neck	April	1
NHLBI, RFA-85-HL-05-H, Juvenile Hypertension and the Prehypertensive State	April	1
NHLBI, RFA-85-HL-04-H, Endothelial and Smooth Muscle Cell Interactions in Lung	April	1
NHLBI, RFA-85-HL-08-H, Molecular Genetics and Hypertension	April	1
NHLBI, Minority Institutional Research Training Grant	April	1
NHLBI, Minority School Faculty Development Award	April	1
NHLBI, RFA-85-HL-09-H, Cellular and Molecular Biology of the Atherosclerotic Lesion	April	2
NHLBI, RFA-85-HL-12-L, Airway Smooth Muscle: Biology and Pharmacology	April	15
NHLBI, Minority Summer Program in Pulmonary Research	August	1
NHLBI, RFA-85-HL-01-1-L, Specialized Centers of Research Concerned with Respiratory Disorders of Neonates and Children/National Research and Demonstration Centers for Respiratory Disorders of Neonates and Children	September	2
NHLBI, RFA-85-HL-10-H, Specialized Centers of Research in Arteriosclerosis (SCOR-A) and National Research and Demonstration Centers in Arteriosclerosis (NRDC-A)	September	16
NHLBI, RFA-85-HL-02-L, Specialized Centers of Research and National Research and Demonstration Centers: Chronic Diseases of the Airways/Occupational and Immunological Lung Diseases/Pulmonary Vascular Diseases	Dec. 2	1985
NIA/NIAID/NIADDK/NICHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	February	1
NIA/NIAID/NIADDK/NCI/NICHD/NIEHS/NHLBI, Clinical Investigator Award	February	1
NIA, Small Grant Awards for Pilot Projects	February	1
NIA, Health Behaviors and Aging: Behavioral Geriatrics Research	February	1
NIA, Complementary Training Awards for Research on Aging	February	1



NIA, Aging and Visual Perception:		
Program Project Grants	February	1
Individual Postdoctoral Fellowships	February	1
Institutional Research Training	February	1
Research Grants	March	1
New Investigator Awards	March	1
NIA, The Oldest Old:		
Program Project Grants	February	1
Individual Postdoctoral Fellowships	February	1
Research Grants	March	1
New Investigator Awards	March	1
NIA, Geriatric Leadership Academic Award	March	1
NIADDK/NIA, Research on Anorectal Diseases and Disorders:		
Research Career Development Awards	February	1
Institutional Training Projects	February	1
New Investigator Awards	March	1
Research Projects	March	1
NIADDK/NCI/NHLBI/NICHD/NIA/NINCDS, Research on Obesity	March	1
NIADDK/NICHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	March	1
NIADDK/NIA/NIAID/NICHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	March	1
NIADDK, DDEMD, Scientific Instrumentation Grants	April	15
NIAID, Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
Career Development	February	1
Physician Scientist	February	1
Clinical Investigator	February	1
Postdoctoral Fellow	February	1
New Grants	March	1
New Investigator	March	1
NIAID, RFA-85-AI-01, Program Projects on Mechanisms of Immunologic Diseases	June	15
NIAID, Minority Research Enhancement Program	Open	
NICHD, The Physiology of Lactation and the Biology of Human Milk (Letter of intent by 1/15/85)	January	15
NICHD, Physical Activity in Pregnancy	March	1
NICHD, Consequences of Infertility and Fertility-Related Problems	March	15
NICHD, RFA-85-HD-03, Reproductive Disorders	April	1
NIDR, Small Grant Program	February	1
NIDR, Dentist Scientist Award	February	1
NIEHS/NIADDK, Effect of Environmental Agents on the Endocrine System	March	1
NIEHS, Specialized Centers of Research	March	1
NIEHS, Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	March	1
NIEHS, Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	March	1
NIEHS, Specialized Centers of Research in Genetic Toxicology	March	1
NIH, Research Grants, Renewals	February	1
NIH, Research Career Development Awards	February	1
NIH, Individual Postdoctoral Fellowships	February	1
NIH, Institutional Training Programs	February	1
NIH, Support of Meetings (Scientific, U.S.A. or International)	February	1

NIH, DRR, NMR Resources, Biotechnology Resources Program	February	1
NIH, Research Grants, New	March	1
NIH, New Investigator Awards	March	1
NINCDS, RFA-85-NS-01, Senator Jacob Javits Centers of Excellence in Neuroscience (Letter of intent encouraged by 12/1/84)	January	15
NINCDS, Individual Postdoctoral Fellowships: Speech and/or Language Disorders	February	1
NINCDS, Clinical Investigator Development Award	February	1
NINCDS, Brain Imaging Research Centers (Letter of intent by 12/15/84)	February	15
NINCDS/NIMH, Autism and Related Behavioral Disorders	March	1
NINCDS, Research Grants on Status Epilepticus	March	1
NINCDS, Research Grants on Basic Mechanisms of the Epilepsies	March	1
NIOSH, Research and Demonstrations Relating to Occupational Safety and Health:		
Special Emphasis Research Career Award	February	1
Small Grant Program	February	1
Research Grants	March	1
Demonstration Grants	March	1
Program Project Grants	March	1
NLM, Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	March	1

#### NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award <u>for each</u> : School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
NHLBI, Research Training and Development Areas:		
Short-Term Research Training: Students in Health Professional Schools	February	1
Special Emphasis Research Career: Diabetes Mellitus	June	1
NHLBI, Preventive Cardiology Academic Award	April	1
NHLBI/NIAMDD, SERCA: Diabetes Mellitus-Cardiovascular, Metabolic and Endocrinologic Aspects	June	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NICHD/NIAMDD, SERCA: Diabetes-Mellitus-Obstetrical, Perinatal, and Pediatric Aspects	June	1
NIGMS, NIGMS Shared Instrumentation Grants	February	15
NIH, NRSA for Short-Term Training of Students in Health Professional Schools (Limited to one application per health professional school for a given receipt date)	February	1

#### ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, Renewals	February	1
ADAMHA, Individual Postdoctoral Fellowships	February	1
ADAMHA, Institutional Training Grants, NRSA	February	1

ADAMHA, Research Scientist Development/Research Scientist Award	February	1
ADAMHA/NIH/NCHSR, Research on Digestive Diseases: Research Career Development	February	1
Research Grants	March	1
ADAMHA, Research Grants, New	March	1
ADAMHA, Grants, Research on Mental Illness in Nursing Homes	March	1
NIAAA/NIDA/NIMH, Institutional NRSA Training	February	1
NIDA/NIAAA, Community Prevention Research in Alcohol and Drug Abuse	March	1
NIDA, Drug Abuse Prevention Research	March	1
NIMH, Rape Centers	February	1
NIMH, Support for Child and Adolescent Mental Health Research and Research Training:		
Individual Postdoctoral Training	February	1
Institutional Research Training	February	1
Research Grants	March	1
NIMH, Child and Adolescent Mental Health Research and Research Training:		
Institutional Training Grants	February	1
Research Grants	March	1
NIMH, Geriatric Mental Health Award	March	1
NIMH, Clinical Investigator Award	March	1
NIMH, Research Grants Program	March	1
NIMH, Physician Scientist Award	March	1
NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders	March	1
NIMH/NIDA, Research on Obesity	March	1
NIMH/NINCDs, Autism and Related Behavioral Disorders	March	1
NIMH, Clinical Research Centers on Psychopathology of the Elderly	March	1
NIMH, American Indian Mental Health Research and Development Center	March	1

### NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
Research on Digestive Diseases	March	1
Grants for Health Services Dissertation Research	March	15

### OFFICE OF ADOLESCENT PREGNANCY PROGRAMS

Grants for Adolescent Family Life Demonstration Projects	January	31
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### FOOD AND DRUG ADMINISTRATION

Research Grants, Renewals	February	1
FDA, RFA-FDA-OP-85-1, Clinical Studies of Safety and Effectiveness of Orphan Products	February	5
Research Grants, New	March	1

### HEALTH CARE FINANCING ADMINISTRATION

Health Financing Research and Demonstration Grants	February	4
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## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Advanced Nurse Training Grants	March	1
Nurse Practitioner Training Grants	March	1
Nurse Special Project Grants	March	1
Maternal and Child Health (MCH) Projects		
Research	*	
Training	*	
Genetic Disease Testing, Counseling and Information	*	
Hemophilia Diagnostic and Treatment Centers	*	
Special MCH Improvement Projects	*	

\*Deadlines differ for categories of grants noted, ranging from March 1 through August 1. Specific dates will be provided with proposal material and published in future newsletters.

## DEPARTMENT OF EDUCATION

National Diffusion Network Program (NONCOMPETING CONTINUATIONS ONLY)	January	15
Special Services for Disadvantaged Students Program (CONTINUATIONS ONLY)	January	18
Upward Bound Program (CONTINUATIONS ONLY)	January	18
Endowment Grant Program (Eligibility request must have been submitted by 10/29/84)	January	25

### International Research and Studies Program:

New Projects	January	25
Continuations	February	15
Research in Education of the Handicapped-Field Initiated		
Research Projects	January	28
Law-Related Education Program	January	30
Training Personnel for the Education of the Handicapped (NONCOMPETING CONTINUATIONS ONLY)	February	1
Research in Education of the Handicapped-Enhancing		
Instructional Program Options Projects	February	15
Indian Fellowship Program (CONTINUATIONS ONLY)	March	4
Research in Education of the Handicapped-Student Initiated		
Research Projects	March	15
Research in Education of the Handicapped-Special Population/Handicapped Population	April	2

## NATIONAL INSTITUTE OF EDUCATION

Planning Grants and Institutional Grants for Educational Research and Development Centers:		
Institutional Grants	June	6

## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Ethics and Values in Science and Technology (NSF 83-62). Formal proposals. Contact Dr. Rachele Hollander, Division of Research Initiation and Improvement (202) 357-7552	February	1
Special Research Initiation Awards for New Investigators in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572	February	6
U.S.-Austria Cooperative Science (NSF 83-73). Semi- annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	March	1
U.S.-Federal Republic of Germany Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	March	1
Cooperative Science Activities with Denmark, the Netherlands, and Norway (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	March	1
U.S.-Finland Cooperative Science (NSF 83-73). Semi- annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	March	1
U.S.-Sweden Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	March	1
VLSI (Very Large Scale Integration) Fast Turnaround Fabrication Service for Universities (NSF 83-43). Contact Dr. Andrew Molnar, Directorate for Science and Engineering Education (202) 357-7539	March	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	March	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	March	1
U.S.-India Exchange of Scientists (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	March	15
U.S.-Spain Cooperative Program in Basic Sciences (NSF 84-10). Proposals for cooperative research projects commencing in 1986; joint seminars, exchange of scientists, and short-term visits. Contact the Division of International Programs (202) 357-7554	March	31
U.S.-United Kingdom Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	April	1

U.S.-Australia Cooperative Science (NSF 81-49 as revised Jan. 1982). All proposals for individual visits from one to 12 months by U.S. scientists to Australia for research beginning any time in 1986; other proposals (e.g., seminars, cooperative research exchanges, no cost visits by Australians to the U.S.) with requested effective dates falling between January 1 and June 30, 1986. Contact the Division of International Programs (202) 357-9558	April	1
U.S.-New Zealand Cooperative Science. All proposals for projects with requested effective date falling between January 1 and June 30, 1986. Contact the Division of International Programs (202) 357-9558	April	1
U.S.-France Cooperative Science (NSF 83-73). Proposals for cooperative research projects and joint workshops/seminars with requested effective dates in calendar year 1986. Contact the Division of International Programs (202) 357-7554	May	1
U.S.-Argentina Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Brazil Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Mexico Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Venezuela Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Latin America and Caribbean Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Japan Cooperative Science (NSF 81-58). Proposals for cooperative research and joint seminar activities are accepted in May each year; proposals for long-term visits (6-12 months) are accepted throughout the year. Contact the Division of International Programs (202) 357-9558	June	1

U.S.-Italy Cooperative Science (NSF 83-73). Proposals for cooperative research projects, joint seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	June	1
U.S.-Switzerland Cooperative Science (NSF 83-73). Proposals for joint research, seminars and long-term research visits. Contact the Division of International Programs (202) 357-7554	June	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	June	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	June	1
U.S.-Korea Cooperative Science (NSF 83-50). Proposals for long-term visits and cooperative research only. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	July	1
U.S.-East Asia Cooperative Science (NSF 83-50). Philippine component only. Proposals for long-term visits, cooperative research, seminars and workshops. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	July	1
Small Business Innovation Research. Contact Mr. Roland Tibbetts or Mr. Ritchie Coryell, Division of Industrial Science and Technological Innovation (202) 357-7527	July	15

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Ocean Sciences Instrumentation Development. Contact Mr. H. Lawrence Clark, Division of Ocean Sciences (202) 357-7837	February	1
Economics. Contact Dr. James Blackman, Dr. Daniel Newlon, Dr. Lynn Pollnow, or Mr. James Slaugh, Jr., Division of Social and Economic Science (202) 357-9675	February	1
Geography and Regional Science. Contact Dr. Ronald Abler, Division of Social and Economic Science (202) 357-7441	February	1
History and Philosophy of Science. Contact Dr. Ronald Overmann or Ms. Bonney Sheahan, Division of Social and Economic Science (202) 357-9677	February	1
Law and Social Sciences. Contact Dr. Felice Levine or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-7569	February	1
Decision and Management Science. Contact Dr. Trudi Miller, Division of Social and Economic Science (202) 357-7569	February	1
Measurement Methods and Data Improvement. Contact Dr. Murray Aborn or Dr. Sara Nerlove, Division of Social and Economic Science (202) 357-7913	February	1
Political Science. Contact Dr. Frank Scioli, Jr., Division of Social and Economic Science (202) 357-7564	February	1
Regulation and Policy Analysis. Contact Dr. Laurence Rosenberg, Division of Social and Economic Science (202) 357-7417	February	1

Sociology. Contact Dr. Joanne Miller, Dr. Thomas Guterbock, or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-7802	February	1
Cell Biology (NSF 83-96). Contact Dr. Gertrude Kasbekar, Division of Cellular Biosciences (202) 357-7474	February	1
Cellular Physiology (NSF 83-96). Contact Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (202) 357-7377	February	1
Developmental Biology (NSF 83-96). Contact Dr. Donald Fosket or Dr. Jane Peterson, Division of Cellular Biosciences (202) 357-7989	February	1
Eukaryotic Genetics (NSF 83-96). Contact Dr. DeLill Nasser, Division of Cellular Biosciences (202) 357-0112	February	1
Regulatory Biology (NSF 83-96). Contact Dr. Elvira Doman, Division of Cellular Biosciences (202) 357-7975	February	1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	February	1
Biochemistry (NSF 83-96). Contact Dr. Arnold Revzin or Ms. Estella Engel, Division of Molecular Biosciences (202) 357-7945	February	1
Biophysics (NSF 83-96). Contact Dr. Arthur Kowalsky or Ms. Brenda Flam, Division of Molecular Biosciences (202) 357-7777	February	1
Developmental Neurosciences (NSF 84-9). Contact Dr. Jean Lauder, Division of Behavioral and Neural Sciences (202) 357-7040	February	1
Linguistics (NSF 84-9). Contact Dr. Paul Chapin, Division of Behavioral and Neural Sciences (202) 357-7696	February	1
Memory and Cognitive Processes (NSF 84-9). Contact Dr. Joseph Young, Division of Behavioral and Neural Sciences (202) 357-9898	February	1
Prokaryotic Genetics (NSF 83-96). Contact Dr. Philip Harriman or Dr. Rolf Benzinger, Division of Molecular Biosciences (202) 357-9687	February	1
Sensory Physiology and Perception (NSF 84-9). Contact Dr. James Larimer, Division of Behavioral and Neural Sciences (202) 357-7428	February	1
Science in Developing Countries. Contact North Africa and Turkey: Mr. Francis Field (202) 357-9402; Sub-Saharan Africa: Mr. Robert Bell (202) 357-9550; South and West Asia: Dr. Osman Shinaishin (202) 357-9402; East Asia: Dr. Gordon Hiebert (202) 357-9537; and Latin America and Caribbean: Ms. Christine French, Division of International Programs (202) 357-9563	March	1
Policy Research and Analysis. Letters of interest and formal proposals may be submitted at any time during the year, but those submitted prior to March 15, 1985, will have the greatest likelihood of being funded during the fiscal year, which ends September 30, 1985. Contact Dr. Roger Shull, Division of Policy Research and Analysis (202) 357-9689	March	15
Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	April	30
Ethics and Values in Sciences and Technology (NSF 83-62). Preliminary Proposals. Contact Dr. Rachelle Hollander, Division of Research Initiation and Improvement (202) 357-7552	May	1



U.S.-Eastern European Cooperative Science (NSF 81-27). Bulgaria, Hungary, and Romania: Contact Ms. Deborah Wince (202) 357-9516. Czechoslovakia and German Democratic Republic: Contact Dr. Gerson Sher, Division of International Programs (202) 357-7494	May	1
Doctoral Dissertation Research in Biotic Systems and Resources (NSF 83-71). Contact Dr. James Edwards. Division of Biotic Systems and Resources (202) 357-9588	May	1
Climate Dynamics. Contact Dr. Thomas Crowley, Division of Atmospheric Sciences (202) 357-9892	May	1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	June	1
Ocean Drilling Program, U.S. Science. Contact Ms. Sandra Toye, Division of Ocean Sciences (202) 357-9849	June	1
U.S. Antarctic Research (NSF 82-34). Funding to support field work in Antarctica during the 1986/87 austral summer and 1987 winter). Contact Mr. Guy Guthridge, Division of Polar Programs (202) 357-7766	June	1
Metabolic Biology (NSF 83-96). Contact Dr. William van B. Robertson or Ms. Carter Kimsey, Division of Molecular Biosciences (202) 357-7987	June	3
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	June	14
Ecosystem Studies. Contact Dr. James Gosz, Division of Biotic Systems and Resources (202) 357-9596	June	14
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	June	14
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	June	14
Biochemistry (NSF 83-96). Contact Dr. Arnold Revzin or Ms. Estella Engel, Division of Molecular Biosciences (202) 357-7945	July	1
Biophysics (NSF 83-96). Contact Dr. Arthur Kowalsky or Ms. Brenda Flam, Division of Molecular Biosciences (202) 357-7777	July	1
Cell Biology (NSF 83-96). Contact Dr. Gertrude Kasbekar, Division of Cellular Biosciences (202) 357-7474	July	1
Cellular Physiology (NSF 83-96). Contact Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (202) 357-7377	July	1
Developmental Biology (NSF 83-96). Contact Dr. Donald Fosket or Dr. Jane Peterson, Division of Cellular Biosciences (202) 357-0112	July	1
Eukaryotic Genetics (NSF 83-96). Contact Dr. DeLill Nasser, Division of Cellular Biosciences (202) 357-0112	July	1
Regulatory Biology (NSF 83-96). Contact Dr. Elvira Doman, Division of Cellular Biosciences (202) 357-0112	July	1
Molecular and Cellular Neurobiology (NSF 84-9). Contact Dr. Joel Colton, Division of Behavioral and Neural Sciences (202) 357-7471	July	1
Prokaryotic Genetics (NSF 83-96). Contact Dr. Philip Harriman or Dr. Rolf Benzinger, Division of Molecular Biosciences (202) 357-9687	July	1
Psychobiology (NSF 84-9). Contact Dr. Fred Stollnitz, Division of Behavioral and Neural Sciences (202) 357-7949	July	1

Social and Developmental Psychology (NSF 84-9). Contact Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (202) 357-9485	July	1
Earth Sciences: Stratigraphy and Paleontology; Surficial Processes; Crustal Structure and Tectonics; Seismology; Experimental and Theoretical Geophysics; Petrogenesis and Mineral Resources; Volcanology and Mantle Geochemistry; Experimental and Theoretical Geochemistry; Continental Lithosphere; and Instrumentation and Facilities. For Earth Sciences Research Equipment (NSF 83-28). Contact Dr. James Hays, Division of Earth Sciences (202) 357-7958	July	1
Ship Operations Support. Instructions for preparation of proposals requesting support for: Ship Operations Support (NSF 81-18). Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	July	1
Shipboard Technicians. Instructions for preparation of proposals requesting support for: Shipboard Technicians (NSF 81-23). Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	July	1

### NATIONAL INSTITUTE OF JUSTICE

Psychological Effects of Criminal Victimization	January	15
Graduate Research Fellowships	March	1
Unsolicited Research Program	June	1

### NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Graduate Student Researchers Program	February	1
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### NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts Visiting Senior Fellowships and Associates (For 9/16/85-2/28/86)	March	21
(For 3/1/86-8/31/86)	September	21

### U.S. INFORMATION AGENCY

University Affiliation Program	February	1
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### NONFEDERAL

THE ORA CONTACT NUMBER FOR NONFEDERAL DEADLINE/PROGRAM INFORMATION IS 373-1970.

American Chemical Society - Petroleum Research Fund Grants-in-Aid	No	Deadline
American Institute for Foreign Study Faculty Development Positions Abroad (suggested deadline)	March	15
American Numismatic Society	March	1
American Philosophical Society Grants-in-Aid	Various--	Contact ORA
Andrew W. Mellon Foundation	No	Deadline

Arthritis Foundation-Minnesota Affiliate	February 15
Bosch Foundation Fellowship Program	No Deadline
Boston University	
University Professors Postdoctoral Fellowship	March 1
Brown Foundation	No Deadline
Burroughs Wellcome Fund	
Molecular Parasitology	January 15
Pharmacoepidemiology	February 15
Carnegie Corporation	No Deadline
Center for Field Research (Earthwatch)	
Latin America Field Research Grants	No Deadline
Cystic Fibrosis	
Student Traineeships	February 1
Dana Foundation	No Deadline
Delta Society	January 15
Distilled Spirits Council of the United States	
Grants-in-Aid for Research	February 1
Edna McConnell Clark Foundation	No Deadline
Exxon Education Foundation	No Deadline
Ford Foundation	No Deadline
Gas Research Foundation	
Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
General Motors Foundation	No Deadline
German Marshall Fund	
Short-Term Travel Awards	No Deadline
Hewlett Foundation	No Deadline
International Research and Exchanges Board (IREX)	
Developmental Fellowships	March 15
USSR Exchange of Language Teachers for Summer 1985	January 15
Travel Grants for Senior Scholars	January 31
	April 30
Juvenile Diabetes	
Research Grant Applications	March 1
Kaiser Family Foundation	No Deadline
Kellogg Foundation	
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
Ladies Auxiliary/Veterans of Foreign Wars	February 15
Lilly Endowment	No Deadline
MacArthur Foundation	No Deadline
March of Dimes Birth Defects Foundation	
Reproductive Hazards in the Workplace (abstracts)	February 1
Basil O'Connor Starter Research Grants	Continuous
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
Small Grants	No Deadline
Minnesota Medical Foundation	March 30
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
National Association of Animal Breeders	February 1
National Foundation for Ileitis and Colitis	February 1

National Foundation for Infectious Diseases		
Fellowship in Infectious Diseases/Lilly	February	1
Fellowship in Infectious Diseases/Upjohn	February	1
Postdoctoral Fellowship in Medical Mycology/Janssen	March	1
Postdoctoral Fellowship in Nosocomial Infection/Roerig	March	15
Postdoctoral Fellowship in Nosocomial Infection/Beecham	March	15
National Geographic Society		
Grants-in-Aid	No	Deadline
National Multiple Sclerosis Society		
Research Grants	February	1
Postdoctoral Fellowships	February	1
Junior Faculty Awards	February	1
National Research Council		
Office of Scientific and Engineering Personnel		
Postdoctoral Fellowships for Minorities	January	16
Orthopaedic Research and Education Foundation		
Resident Research Fellowships	February	15
Pew Memorial Trust		Continuous
Pharmaceutical Manufacturers Association Foundation		
Medical Student Research Fellowships/Pharmacology	January	15
Fellowship Awards in Pharmacology/Morphology	January	15
Research Corporation		
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No	Deadline
Rockefeller Brothers Fund, Inc.	No	Deadline
Scottish Rite Schizophrenia Research Program		
Dissertation Research Fellowship Awards		
Preapplication Letter	February	1
Final Application	March	1
Research Grant Awards		
Final Application (for Preapplications submitted 1/1)	March	1
Sloan Foundation	No	Deadline
Southeastern Poultry and Egg Association	No	Deadline
Sudden Infant Death Syndrome Foundation	March	1
Technicon Instruments Corporation		
Grants for Research in Biomedical and Industrial Instrumentation		
Pre-proposals	No	Deadline
Tinker Foundation		
Field Research in Portugal, Spain or Latin America	No	Deadline
University Genetics Company (UGEN)	No	Deadline
Villers Foundation	No	Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

# ORA RDC Newsletter

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FEBRUARY 1985

VOLUME XIV/NO. 8

## NEW FRINGE BENEFIT RATES

The fringe benefit rates shown below will be charged against salaries during the period January 1 through June 30, 1985. The estimated rates are to be used for budgeting beyond June 1985. Please call 376-7503 with questions regarding fringe benefit rate development.

	ACADEMIC %	CIVIL SERVICE %
Health Plan	5.8275	6.5806
Unemployment Compensation	.0206	.0772
Workers Compensation	.0000	.7586
Group Life	.3205	.2055
Retirement	12.9160	3.8725
F.I.C.A.	<u>6.0080</u>	<u>7.0981</u>
	25.0926	18.5925
Estimated rates to be used for budgeting beyond 6/30/85:	26.0000	22.0000

## FEDERAL ACQUISITION REGULATION

The Army, Navy and Air Force medical research agencies are now restricted to funding most research projects by advertising and competitive bids, rather than awarding sole source contracts based on unsolicited proposals. However, some unsolicited proposals will still be funded. The agencies affected and their areas of emphasis are listed below. Formal unsolicited proposals to the U.S. Army Medical Research and Development Command are due August 15. A lead time of six to nine months should be allowed for evaluation and processing proposals.

U.S. ARMY MEDICAL RESEARCH AND DEVELOPMENT COMMAND: Military Disease Hazards; Combat Casualty Management; Military Systems/Combat Operations Health Hazards; Combat Maxillofacial Injury/Dental Disease; Chemical Warfare Defense.

OFFICE OF NAVAL RESEARCH: Physiology; Molecular Biology; Cellular Biosystems; Engineering Psychology; Organizational Effectiveness; Personnel and Training.

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH: Bioreactivity; Adaptive Networks; Event-Related Potentials and Fields; Sensory-Motor Processes; Mechanical and Environmental Toxicology.

## OFFICE OF NAVAL RESEARCH PLANS TO AWARD \$20 MILLION MORE IN CONTRACTS IN 1985

ONR awards research contracts through its four research directorates. These include the mathematical and physical sciences directorate, the environmental sciences directorate, the engineering sciences directorate and the life sciences directorate. Each directorate consists of two or three divisions. Potential contractors are encouraged to contact the appropriate ONR staff for the divisions listed below:

Mathematical Sciences Division - Dr. Edward Wegman (202) 696-4310  
Physics Division - Dr. Bobby Junker (202) 696-4220  
Chemistry Division - Dr. George Neece (202) 696-4409  
Electronics Division - Dr. Kenneth Davis (202) 696-4216  
Ocean Technology and Support Division - Dr. Eugene Silva (202) 696-4358  
Ocean Sciences Division - Dr. Alan I. Weinstein (202) 696-4532  
Geophysical Sciences Division - Dr. David Bradley (202) 696-4120  
Materials Division - Dr. C. Ted Lynch (202) 696-4325  
Mechanics Division - Dr. Albert Wood (202) 696-4403  
Information Sciences Division - Dr. Paul Schneck (202) 696-4312  
Biological Sciences Division - Dr. Robert Newburgh (202) 696-4986  
Psychological Sciences Division - Dr. Martin Tolcott (202) 696-4505

## NUCLEAR REGULATORY COMMISSION

Fiscal year 1985 funds are available for grants to support professional meetings, symposia, conferences, national and international commissions and publications to enhance technology transfer and dissemination of nuclear energy process and safety information. For further information contact Mr. Paul Edgeworth (301) 492-4291. Deadline: September 30, 1985.

## DEPARTMENT OF THE NAVY

Naval Sea Systems Command General Hydromechanics Research (GHR) Program for fiscal year 1986 solicits proposals for fundamental research in the fields of ship hydrodynamics and ship hydroacoustics. Areas of particular interest are bow and stern flowfields, hull/propeller flow, free-surface flow, viscid/inviscid interaction, hull and propeller cavitation and ship dynamics. Guidelines may be obtained from ORA by calling 373-5925. Deadline: March 15, 1985.

## U.S. DEPARTMENT OF TRANSPORTATION RESEARCH OPPORTUNITY

The Maritime Administration has announced Sol #RFP DTMA91-85-R-50103. Contract awards will be provided in the following areas of interest: international ocean shipping, maritime technology, ship production, ship operations and cargo handling and ports. For additional information contact Delores Hagans (202) 382-0433. Due date not available.

## U.S. DEPARTMENT OF ENERGY

The U.S. Department of Energy has announced two new solicitations: Sol #DE-RP01-85FE 60602: for assessing the potential benefits and risks associated with new energy technologies and structuring the office's long-term research and

development program. Sol #DE-RP01-85PE 77000: for energy modeling and analysis. For additional information contact U.S. Department of Energy, 1000 Independence Avenue S.W., Washington, DC 20585. Due dates not available.

#### **DEFENSE SUPPLY SERVICE**

The Defense Supply Service has announced Sol #MDA903-85-R-0020: to conduct a worldwide drug and alcohol abuse survey among military personnel and analyze and describe results by personal, social, demographic and institutional components. For further information contact Ruth Jones (202) 697-6257. Due date not available.

#### **THE COUNCIL FOR HIGH BLOOD PRESSURE RESEARCH**

Nominations are due by March 29, 1985 for the CIBA Award for Hypertension Research for 1985. Nominations may concern any method of approach, from molecular biology to epidemiology, in the field of hypertension research. Applications and details of the award process may be obtained from ORA by calling 373-5925.

#### **AMERICAN CANCER SOCIETY (ACS) INSTITUTIONAL RESEARCH GRANT AWARD**

The University of Minnesota has been awarded a renewal of its Institutional Research grant from the ACS for 1984-1985. This fund is intended to serve as "seed" money permitting the initiation of promising new projects or novel ideas, especially by junior investigators, in cancer-related research. Encouragement of cancer research may also be facilitated by support of seminars on cancer-related topics, and by graduate student research. The fund is administered by a Dean's Committee of the Medical School with representation from other biologically-oriented colleges. The Committee is now accepting applications for individual grants not to exceed \$7,500 from this fund. Instructions and application forms may be obtained from the Dean's Committee for the ACS Institutional Research grant, Room 421 Masonic Cancer Center, 373-4318. Deadline: February 15, 1985.

#### **OFFICE OF INTERNATIONAL PROGRAMS DEADLINE INFORMATION**

The Office of International Programs (OIP) has information, including deadline dates, on major faculty/student fellowship and grant programs which support international activities. For further information please contact the OIP at 373-3793.

#### **SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS**

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORA CONTACT NUMBERS FOR FEDERAL DEADLINE/PROGRAM INFORMATION IS 373-5925.

# FEDERAL

## NATIONAL INSTITUTES OF HEALTH

DRR, Shared Instrumentation Grant (Biomedical Research Support)	February	15
DRR, Biomedical Research Support Shared Instrumentation Grants	February	15
DRR, RFA-85-RR-01, Developing and Improving Institutional Animal Resources	March	1
Fogarty International Center, Eastern European Scientist Exchange Program	Open	
Fogarty International Center, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
Fogarty, Biomedical Research Fellowship Opportunities Abroad:		
Alexander von Humboldt Awards (West Germany)	Open	
Fogarty, Senior International Fellowship Program	June	1
NCI/NIAID/NIADDK/NICHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases:		
Research Grants	March	1
NCI, Biochemistry and Pharmacology Program	March	1
NCI, Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	March	1
NCI, Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	March	1
NCI, Prediction of Tumor Response to Radiation Therapy	March	1
NCI, Medical Imaging for Diagnosis and Treatment of Cancer	March	1
NCI, Research on Biological Response Modifiers	March	1
NCI, RFA-85-CA-03, Cytogenetics and Predisposition to Cancer	March	15
NCI, RFA-85-CA-07, Smoking Prevention and Cessation Among Women (Letter of intent by 2/15)	March	15
NCI, RFA-85-CA-08, Prevention and Cessation of Use of Smokeless Tobacco (Letter of intent by 2/15)	March	15
NCI, RFA-84-CA-08, Cancer Control Research Units (REVISED DATES, Letter of intent by 2/4)	June	11
NEI, Retinal and Choroidal Diseases Research:		
Research Grants	March	1
NEI, Strabismus, Amblyopia and Visual Processing:		
Research Grants	March	1
NEI, Research on Basic Mechanisms of Retinal Phototoxicity	March	1
NEI/NIAID, Immunological Aspects of Ocular Disease	March	1
NEI, Instrumentation Projects	May	1
NEI, Small Grants Program for Pilot Projects	June	1
NHLBI, RFA 85-HL-03-B, Inhibitor Formation in Hemophilia	February	15
NHLBI, RFA 84-HL-15-B, Specialized Centers of Research in Thrombosis/National Research and Demonstration Center in Thrombosis	February	15
NHLBI, Mechanisms of Platelet Refractoriness (Letter of intent by 12/1)	February	15



NHLBI, RFA 85-HL-25-P, Research in Nutrition and Cardiovascular Diseases	February	15
NHLBI, RFA-85-HL-23-P, Workplace Demonstration and Education Research in Cardiovascular Diseases	February	15
NHLBI, RFA-85-HL-22-P, Behavioral Stress, Neuroactive Peptides, and Cardiovascular Disease	February	15
NHLBI, RFA-85-HL-21-P, Smoking Cessation in Patients with Cardiovascular Disease	February	15
NHLBI, RFA-85-HL-20-P, Exercise, Stress and Atherosclerosis	February	15
NHLBI, Childhood Nutrition, Physical Activity, and CV Health	February	15
NHLBI, Fundamental Studies of Normal and Abnormal Cardiac Rhythm	February	15
NHLBI, Research Training and Development Areas: New Investigator Research Award	March	1
NHLBI, Surfactants for Perflurochemicals	March	1
NHLBI, Demonstration and Education Research Related to Pulmonary Disease	March	1
NHLBI, Arrhythmia Detection and Discrimination from Electrograms	March	1
NHLBI, Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young	March	1
NHLBI, Minimally Invasive Measurement of Blood Pressure in the Heart and Central Arteries	March	1
NHLBI, Development of Genetic Hypertensive Animal Models	March	1
NHLBI, Blood Transfusion and Cytomegalovirus Infection	March	1
NHLBI, RFA-85-HL-26, Alterations and Renovations to Establish NHLBI Shared Research Facilities	March	1
NHLBI, RFA-85-HL-17-H, Molecular Mechanisms Controlling Myocardial Growth and Hypertrophy	March	15
NHLBI, Protection of the Immature Myocardium	March	15
NHLBI, RFA-85-HL-07-H, Cell Biology of the Vasculature in the Pathogenesis of Hypertension	April	1
NHLBI, RFA-85-HL-06-H, Blood Vessels of the Brain and Neck	April	1
NHLBI, RFA-85-HL-05-H, Juvenile Hypertension and the Prehypertensive State	April	1
NHLBI, RFA-85-HL-04-H, Endothelial and Smooth Muscle Cell Interactions in Lung	April	1
NHLBI, RFA-85-HL-08-H, Molecular Genetics and Hypertension	April	1
NHLBI, Minority Institutional Research Training Grant	April	1
NHLBI, Minority School Faculty Development Award	April	1
NHLBI, RFA-85-HL-09-H, Cellular and Molecular Biology of the Atherosclerotic Lesion	April	2
NHLBI, RFA-85-HL-12-L, Airway Smooth Muscle: Biology and Pharmacology	April	15
NHLBI, Research Career Development Award: Basic Science Related to the Respiratory System	June	1
NHLBI, Career Development Programs for Physicians in Cardiac and Vascular Research in Cerebrovascular Disease:		
Physician Scientist Award	June	1
Clinical Investigator Award	June	1
NHLBI, Minority Summer Program in Pulmonary Research	August	1

NHLBI, RFA-85-HL-01-1-L, Specialized Centers of Research Concerned with Respiratory Disorders of Neonates and Children/National Research and Demonstration Centers for Respiratory Disorders of Neonates and Children	September	2
NHLBI, RFA-85-HL-10-H, Specialized Centers of Research in Arteriosclerosis (SCOR-A) and National Research and Demonstration Centers in Arteriosclerosis (NRDC-A)	September	16
NHLBI, RFA-85-HL-02-L, Specialized Centers of Research and National Research and Demonstration Centers: Chronic Diseases of the Airways/Occupational and Immunological Lung Diseases/Pulmonary Vascular Diseases	December	2
NIA, Geriatric Leadership Academic Award	March	1
NIA, Aging and Visual Perception: Research Grants	March	1
New Investigator Awards	March	1
NIA, The Oldest Old: Research Grants	March	1
New Investigator Awards	March	1
Program Project Grants	June	1
Individual Postdoctoral Fellowships	June	1
NIA/NIAID/NIADDK/NICHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	June	1
NIA, Small Grant Awards for Pilot Projects	June	1
NIA, Complementary Training Awards for Research on Aging	June	1
NIADDK/NIA, Research on Anorectal Diseases and Disorders: New Investigator Awards	March	1
Research Projects	March	1
NIADDK/NCI/NHLBI/NICHD/NIA/NINCDS, Research on Obesity	March	1
NIADDK/NICHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	March	1
NIADDK/NIA/NIAID/NICHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	March	1
NIADDK, DDEMD, Scientific Instrumentation Grants	April	15
NIAID, Minority Research Enhancement Program	Open	
NIAID, Human Papilloma Viruses and Genital Warts	March	1
NIAID, Mechanisms of Action of the Drug Cyclosporine	March	1
NIAID, Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis) New Grants	March	1
New Investigator	March	1
Career Development	June	1
Physician Scientist	June	1
Clinical Investigator	June	1
Postdoctoral Fellow	June	1
NIAID, RFA-85-AI-01, Program Projects on Mechanisms of Immunologic Diseases	June	15
NIAID, Biology of the Immune System (Letter of intent by 4/1/85)	June	15
NIAID, Centers: Asthma and Allergic Disease/Immunodermatologic Diseases (Letter of intent by 7/15/85)	October	15
NIAID, Centers for Interdisciplinary Research on Immunologic Diseases (Letter of intent by 7/15/85)	October	15
NICHD, The Physiology of Lactation and the Biology of Human Milk (Letter of intent by 1/15/85)	March	1
NICHD, Physical Activity in Pregnancy	March	1
NICHD, Consequences of Infertility and Fertility-Related Problems	March	15

NICHD, RFA-85-HD-03, Reproductive Disorders	April	1
NIDR, Small Grant Program	June	1
NIDR, Dentist Scientist Award	June	1
NIDR, Orofacial Pain Research Centers	June	15
NIEHS/NIADDK, Effect of Environmental Agents on the Endocrine System	March	1
NIEHS, Specialized Centers of Research	March	1
NIEHS, Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	March	1
NIEHS, Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	March	1
NIEHS, Specialized Centers of Research in Genetic Toxicology	March	1
NIH, Research Grants, New	March	1
NIH, New Investigator Awards	March	1
NIH, Research Grants, Renewals	June	1
NIH, Research Career Development Awards	June	1
NIH, Individual Postdoctoral Fellowships	June	1
NIH, Institutional Training Programs	June	1
NINCDS, Brain Imaging Research Centers (Letter of intent by 12/15/84)	February	15
NINCDS/NIMH, Autism and Related Behavioral Disorders	March	1
NINCDS, Research Grants on Status Epilepticus	March	1
NINCDS, Research Grants on Basic Mechanisms of the Epilepsies	March	1
NINCDS, Clinical Investigator Development Award	June	1
NIOSH, Research and Demonstrations Relating to Occupational Safety and Health:		
Research Grants	March	1
Demonstration Grants	March	1
Program Project Grants	March	1
Special Emphasis Research Career Award	June	1
Small Grant Program	June	1
NLM, Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	March	1
NLM, Investigator-Initiated Research Grants/New Investigator Research Awards	March	1
NLM, National Reference Center for Bioethics Literature	April	1

#### NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award <u>for each</u> : School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
NHLBI, Research Training and Development Areas: Short-Term Research Training: Students in Health Professional Schools	February	1
Special Emphasis Research Career: Diabetes Mellitus	June	1
NHLBI, Preventive Cardiology Academic Award	April	1
NHLBI/NIAMDD, SERCA: Diabetes Mellitus-Cardiovascular, Metabolic and Endocrinologic Aspects	June	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1

NICHD/NIAMDD, SERCA: Diabetes-Mellitus-Obstetrical, Perinatal, and Pediatric Aspects	June	1
NIGMS, NIGMS Shared Instrumentation Grants	February	15
NIH, NRSA for Short-Term Training of Students in Health Professional Schools (Limited to one application per health professional school for a given receipt date)	February	1

## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, New	March	1
ADAMHA, Grants, Research on Mental Illness in Nursing Homes	March	1
ADAMHA/NIH/NCHSR, Research on Digestive Diseases: Research Grants	March	1
Research Career Development	June	1
ADAMHA, Research Grants, Renewals	June	1
ADAMHA, Individual Postdoctoral Fellowships	June	1
ADAMHA, Institutional Training Grants, NRSA	June	1
ADAMHA, Research Scientist Development/Research Scientist Award	June	1
NIAAA/NIDA, New Investigator Research Award	March	1
NIAAA/NIDA/NIMH, Institutional NRSA Training	June	1
NIDA/NIAAA, Community Prevention Research in Alcohol and Drug Abuse	March	1
NIDA, Drug Abuse Prevention Research	March	1
NIMH, Geriatric Mental Health Award	March	1
NIMH, Clinical Investigator Award	March	1
NIMH, Research Grants Program	March	1
NIMH, Physician Scientist Award	March	1
NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders	March	1
NIMH/NIDA, Research on Obesity	March	1
NIMH/NINCDS, Autism and Related Behavioral Disorders	March	1
NIMH, Clinical Research Centers on Psychopathology of the Elderly	March	1
NIMH, American Indian Mental Health Research and Development Center	March	1
NIMH, Preventative Intervention Research Centers	March	1
NIMH, Rape Center	March	1
NIMH, Prevention Research Branch	March	1
NIMH, Support for Child and Adolescent Mental Health Research and Research Training: Research Grants	March	1
Individual Postdoctoral Training	June	1
Institutional Research Training	June	1
NIMH, Child and Adolescent Mental Health Research and Research Training: Research Grants	March	1
Institutional Training Grants	June	1

## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
Research on Digestive Diseases	March	1
Grants for Health Services Dissertation Research	March	15

## OFFICE OF ADOLESCENT PREGNANCY PROGRAMS

Grants for Research on Adolescent Family Life April 15

## FOOD AND DRUG ADMINISTRATION

Research Grants, New March 1  
Research Grants, Renewals June 1

## HEALTH CARE FINANCING ADMINISTRATION

Health Financing Research and Demonstration Grants May 6

## CENTERS FOR DISEASE CONTROL

Demonstration Program in the Use of Calcium Fluoride in  
Fluoridating a Water System February 22

## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Advanced Nurse Training Grants March 1  
Nurse Practitioner Training Grants March 1  
Nurse Special Project Grants March 1  
Maternal and Child Health (MCH) Projects  
  Research March 1  
  Genetic Disease Testing, Counseling and Information March 1  
  Special MCH Improvement Projects March 15  
  Training  
    New March 22  
    Continuations June 14  
Training Personnel for the Education of the Handicapped  
  - Special Projects March 21  
  Hemophilia Diagnostic and Treatment Centers May 1

## DEPARTMENT OF EDUCATION

International Research and Studies Program:  
  Continuations February 15  
  Research in Education of the Handicapped-Enhancing  
    Instructional Program Options Projects February 15  
  Strengthening Program; Application Notice for New Planning  
    Grants and Renewable Development Grants February 15  
  Cooperative Education Program; Application Notice for New  
    and Noncompeting Continuation Award for Fiscal Year 1985  
    Office of Postsecondary Education February 25  
  Special Education/Rehabilitative Services Fellowships in  
    Handicapped Research Under the National Institute of  
    Handicapped Research February 28  
  New Cooperative Agreements - Services for Deaf-Blind  
    Children and Youth March 1  
  Innovation Grants for Fiscal Year 1985 under the National  
    Institute of Handicapped Research March 1  
  Field-Initiated Research Grants for Fiscal Year 1985 under  
    the National Institute of Handicapped Research March 1  
  Indian Fellowship Program (CONTINUATIONS ONLY) March 4  
  National Diffusion Network Program - Developer Demonstrator  
    Business and International Education March 4  
    March 5

Postsecondary Education for Handicapped Persons - Demonstration	March	7
Handicapped Children's Early Education Program/Early Childhood State Plan Projects	March	7
Research in Education of the Handicapped-Student Initiated Research Projects	March	15
Training Personnel for the Education of the Handicapped Special Projects	March	21
Research in Education of the Handicapped-Special Population/Handicapped Population	April	2
Auxiliary Activities; Innovative Programs for Severely Handicapped Children	April	8
NIHR-Special Projects and Demonstrations for Spinal Cord Injuries	April	15

## NATIONAL INSTITUTE OF EDUCATION

Planning Grants and Institutional Grants for Educational Research and Development Centers: Institutional Grants	June	6
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## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

U.S.-Austria Cooperative Science (NSF 83-73). Semi- annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	March	1
U.S.-Federal Republic of Germany Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	March	1
Cooperative Science Activities with Denmark, the Netherlands, and Norway (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	March	1
U.S.-Finland Cooperative Science (NSF 83-73). Semi- annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	March	1
U.S.-Sweden Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	March	1

VLSI (Very Large Scale Integration) Fast Turnaround Fabrication Service for Universities (NSF 83-43). Contact Dr. Andrew Molnar, Directorate for Science and Engineering Education (202) 357-7539	March	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	March	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	March	1
U.S.-India Exchange of Scientists (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	March	15
U.S.-Spain Cooperative Program in Basic Sciences (NSF 84-10). Proposals for cooperative research projects commencing in 1986; joint seminars, exchange of scientists, and short-term visits. Contact the Division of International Programs (202) 357-7554	March	31
U.S.-United Kingdom Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	April	1
U.S.-Australia Cooperative Science (NSF 81-49 as revised Jan. 1982). All proposals for individual visits from one to 12 months by U.S. scientists to Australia for research beginning any time in 1986; other proposals (e.g., seminars, cooperative research exchanges, no cost visits by Australians to the U.S.) with requested effective dates falling between January 1 and June 30, 1986. Contact the Division of International Programs (202) 357-9558	April	1
U.S.-New Zealand Cooperative Science. All proposals for projects with requested effective date falling between January 1 and June 30, 1986. Contact the Division of International Programs (202) 357-9558	April	1
U.S.-France Cooperative Science (NSF 83-73). Proposals for cooperative research projects and joint workshops/ seminars with requested effective dates in calendar year 1986. Contact the Division of International Programs (202) 357-7554	May	1
U.S.-Argentina Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Brazil Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1

U.S.-Mexico Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Venezuela Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Latin America and Caribbean Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Japan Cooperative Science (NSF 81-58). Proposals for cooperative research and joint seminar activities are accepted in May each year; proposals for long-term visits (6-12 months) are accepted throughout the year. Contact the Division of International Programs (202) 357-9558	June	1
U.S.-Italy Cooperative Science (NSF 83-73). Proposals for cooperative research projects, joint seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	June	1
U.S.-Switzerland Cooperative Science (NSF 83-73). Proposals for joint research, seminars and long-term research visits. Contact the Division of International Programs (202) 357-7554	June	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	June	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	June	1
U.S.-Korea Cooperative Science (NSF 83-50). Proposals for long-term visits and cooperative research only. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	July	1
U.S.-East Asia Cooperative Science (NSF 83-50). Philippine component only. Proposals for long-term visits, cooperative research, seminars and workshops. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	July	1
Small Business Innovation Research. Contact Mr. Roland Tibbetts or Mr. Ritchie Coryell, Division of Industrial Science and Technological Innovation (202) 357-7527	July	15
VLSI (Very Large Scale Integration) Fast Turnaround Fabrication Service for Universities (NSF 83-43). Contact Dr. Andrew Molnar, Directorate for Science and Engineering Education (202) 357-7539	August	1



Ethics and Values in Science and Technology (NSF 83-62). Formal proposals. Contact Dr. Rachele Hollander, Division of Research Initiation and Improvement (202) 357-7552	August	1
Special Research Initiation Awards for New Investigators in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572	August	7

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Science in Developing Countries. Contact North Africa and Turkey: Mr. Francis Field (202) 357-9402; Sub-Saharan Africa: Mr. Robert Bell (202) 357-9550; South and West Asia: Dr. Osman Shinaishin (202) 357-9402; East Asia: Dr. Gordon Hiebert (202) 357-9537; and Latin America and Caribbean: Ms. Christine French, Division of International Programs (202) 357-9563	March	1
Policy Research and Analysis. Letters of interest and formal proposals may be submitted at any time during the year, but those submitted prior to March 15, 1985, will have the greatest likelihood of being funded during the fiscal year, which ends September 30, 1985. Contact Dr. Roger Shull, Division of Policy Research and Analysis (202) 357-9689	March	15
Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	April	30
Ethics and Values in Sciences and Technology (NSF 83-62). Preliminary Proposals. Contact Dr. Rachele Hollander, Division of Research Initiation and Improvement (202) 357-7552	May	1
U.S.-Eastern European Cooperative Science (NSF 81-27). Bulgaria, Hungary, and Romania: Contact Ms. Deborah Wince (202) 357-9516. Czechoslovakia and German Democratic Republic: Contact Dr. Gerson Sher, Division of International Programs (202) 357-7494	May	1
Doctoral Dissertation Research in Biotic Systems and Resources (NSF 83-71). Contact Dr. James Edwards. Division of Biotic Systems and Resources (202) 357-9588	May	1
Climate Dynamics. Contact Dr. Thomas Crowley, Division of Atmospheric Sciences (202) 357-9892	May	1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	June	1
Ocean Drilling Program, U.S. Science. Contact Ms. Sandra Toye, Division of Ocean Sciences (202) 357-9849	June	1
U.S. Antarctic Research (NSF 82-34). Funding to support field work in Antarctica during the 1986/87 austral summer and 1987 winter). Contact Mr. Guy Guthridge, Division of Polar Programs (202) 357-7766	June	1
Metabolic Biology (NSF 83-96). Contact Dr. William van B. Robertson or Ms. Carter Kimsey, Division of Molecular Biosciences (202) 357-7987	June	3
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	June	14
Ecosystem Studies. Contact Dr. James Gosz, Division of Biotic Systems and Resources (202) 357-9596	June	14

Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	June	14
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	June	14
Biochemistry (NSF 83-96). Contact Dr. Arnold Revzin or Ms. Estella Engel, Division of Molecular Biosciences (202) 357-7945	July	1
Biophysics (NSF 83-96). Contact Dr. Arthur Kowalsky or Ms. Brenda Flam, Division of Molecular Biosciences (202) 357-7777	July	1
Cell Biology (NSF 83-96). Contact Dr. Gertrude Kasbekar, Division of Cellular Biosciences (202) 357-7474	July	1
Cellular Physiology (NSF 83-96). Contact Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (202) 357-7377	July	1
Developmental Biology (NSF 83-96). Contact Dr. Donald Fosket or Dr. Jane Peterson, Division of Cellular Biosciences (202) 357-0112	July	1
Eukaryotic Genetics (NSF 83-96). Contact Dr. DeLill Nasser, Division of Cellular Biosciences (202) 357-0112	July	1
Regulatory Biology (NSF 83-96). Contact Dr. Elvira Doman, Division of Cellular Biosciences (202) 357-0112	July	1
Molecular and Cellular Neurobiology (NSF 84-9). Contact Dr. Joel Colton, Division of Behavioral and Neural Sciences (202) 357-7471	July	1
Prokaryotic Genetics (NSF 83-96). Contact Dr. Philip Harriman or Dr. Rolf Benzinger, Division of Molecular Biosciences (202) 357-9687	July	1
Psychobiology (NSF 84-9). Contact Dr. Fred Stollnitz, Division of Behavioral and Neural Sciences (202) 357-7949	July	1
Social and Developmental Psychology (NSF 84-9). Contact Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (202) 357-9485	July	1
Earth Sciences: Stratigraphy and Paleontology; Surficial Processes; Crustal Structure and Tectonics; Seismology; Experimental and Theoretical Geophysics; Petrogenesis and Mineral Resources; Volcanology and Mantle Geochemistry; Experimental and Theoretical Geochemistry; Continental Lithosphere; and Instrumentation and Facilities. For Earth Sciences Research Equipment (NSF 83-28). Contact Dr. James Hays, Division of Earth Sciences (202) 357-7958	July	1
Ship Operations Support. Instructions for preparation of proposals requesting support for: Ship Operations Support (NSF 81-18). Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	July	1
Shipboard Technicians. Instructions for preparation of proposals requesting support for: Shipboard Technicians (NSF 81-23). Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	July	1
Climate Dynamics. Contact Dr. Thomas Crowley, Division of Atmospheric Sciences (202) 357-9892	August	1
Developmental Neurosciences (NSF 84-9). Contact Dr. Jean Lauder, Division of Behavioral and Neural Sciences (202) 357-7042	August	1

Integrative Neural Systems (NSF 84-9). Contact Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (202) 357-7040	August	1
Linguistics (NSF 84-9). Contact Dr. Paul Chapin, Division of Behavioral and Neural Sciences (202) 357-7696	August	1
Memory and Cognitive Processes (NSF 84-9). Contact Dr. Joseph Young, Division of Behavioral and Neural Sciences (202) 357-9898	August	1
Sensory Physiology and Perception (NSF 84-9). Contact Dr. James Larimer, Division of Behavioral and Neural Sciences (202) 357-7428	August	1

\*NSF Proposals may be submitted for the following programs at any time of the year. It takes approximately six to nine months to process a proposal. Brochures indicated in parentheses may be ordered.

U.S.-Korea Cooperative Science (NSF 83-50). Short-term visits only. Contact Dr. Gerald Edwards (202) 357-9537	*
U.S.-East Asia Cooperative Science (NSF 83-50). Short-term visits only to the Philippines and Korea. Contact Dr. Gerald Edwards (202) 357-9537	*
U.S.-East Asia Cooperative Science (NSF 83-50). Excluding Philippines and Korea. Contact Dr. Gordon Hiebert (202) 357-9537	*
U.S.-India Cooperative Science (NSF 82-86). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402	*
U.S.-Pakistan Cooperative Science (NSF 80-49). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402	*
U.S.-China Cooperative Science (NSF 82-50). For information regarding field limitations contact Dr. Pierre Perrolle or Mr. Alexander DeAngelis (202) 357-7393	*
U.S.-Belgium Cooperative Science (NSF 83-73). Cooperative research projects, joint seminars (202) 357-7554	*
U.S.-Japan Cooperative Science (NSF 81-58). Proposals from U.S. investigators for long-term visits to spend from 6 to 12 months conducting research in Japan (202) 357-9558	*
U.S.-Japan Program for Cooperation in Photoconversion and Photosynthesis (NSF 83-11). Letter-proposals for visits up to two weeks in Japan to plan formal research in cooperation with Japanese investigators in the areas of photoconversion and photosynthesis (202) 357-9558	*
NSF-NATO Exchange for International Academic-Industrial Exchanges of U.S. Scientists (Double Jump). Postdoctoral program for the exchange of scientists from the academic and industrial communities of the U.S. and NATO member countries (202) 357-7554	*
U.S.-New Zealand Cooperative Science (NSF 81-50). Letter- proposals for short-term visits (limited to air fare and up to three weeks' per diem) to develop cooperative research in physical oceanography, air/sea interaction, marine geology, geophysics or biology (marine productivity) (202) 357-9558	*

Research in Undergraduate Institutions (NSF 83-79). Contact appropriate disciplinary program in NSF for more specific target dates and number of copies of proposals needed or contact Dr. Joseph Danek, Director of Special Projects, Division of Research Initiation and Improvement (202) 357-7456 \*

Minority Research Initiation (NSF 80-42). Contact Dr. Roosevelt Calbert (202) 357-7350 \*

Synthetic Inorganic and Organometallic Chemistry (NSF 83-57). Contact Dr. Oren Williams (202) 357-7499 \*

Synthetic Organic and Natural Products Chemistry (NSF 83-57). Contact Dr. John Showell (202) 357-7499 \*

Chemical Analysis (NSF 83-57). Contact Dr. Henry Blount, III (202) 357-7503 \*

Chemical Instrumentation (NSF 83-57). Contact Dr. John Hunt (202) 357-7960 \*

Structural Chemistry and Thermodynamics (NSF 83-57). Contact Dr. William Harris (202) 357-9826 \*

Chemical Physics (NSF 83-57). Contact Dr. William Cramer (202) 357-7951 \*

Chemical Dynamics (NSF 83-57). Contact Dr. Richard Holder (202) 357-7956 \*

Instrumentation for Materials Research (NSF 82-79). Contact Dr. William Oosterhuis (202) 357-7570 \*

National Facilities. Contact Dr. Dean Mitchell (202) 357-9791 \*

Materials Research Laboratory. Contact Dr. Adriaan de Graaf (202) 357-9791 \*

Materials Research Group. Contact Dr. W. Lance Haworth (202) 357-9791 \*

Atomic, Molecular, and Plasma Physics. Contact Dr. Rolf Sinclair (202) 357-7997 \*

Elementary Particle Physics. Contact Dr. David Berley (202) 357-9575 \*

Gravitational Physics. Contact Dr. Richard Isaacson (202) 357-7979 \*

Intermediate Energy Nuclear Physics. Contact Dr. Peter Riley (202) 357-7992 \*

Nuclear Physics. Contact Dr. William Rodney (202) 357-7992 \*

Theoretical Physics. Contact Dr. Boris Kayser (202) 357-7979 \*

Aeronomy. Contact Dr. Andrew Christensen (202) 357-7619 \*

Atmospheric Chemistry. Contact Dr. Jarvis Moyers (202) 357-9657 \*

Experimental Meteorology. Contact Dr. Richard Greenfield (202) 357-9887 \*

Global Atmospheric Research. Contact Dr. Jay Fein (202) 357-9887 \*

Meteorology. Contact Dr. Ronald Taylor (202) 357-7624 \*

Solar Terrestrial. Contact Dr. Dennis Peacock (202) 357-7618 \*

Upper Atmospheric Facilities. Contact Dr. Richard Behnke (202) 357-7390 \*

Astronomical Instrumentation and Development. Contact Dr. G. W. Van Citters, Jr. (202) 357-9793 \*

Extragalactic Astronomy. Contact Dr. James Wright (202) 357-7639 \*

Galactic Astronomy. Contact Dr. Kurt Weiler (202) 357-7620 \*

Solar System Astronomy. Contact Dr. Kurt Weiler (202) 357-7620	*
Stars and Stellar Evolution. Contact Dr. Peter Pesch (202) 357-7622	*
Electromagnetic Spectrum. Contact Dr. Vernon Pankonin (202) 357-9696	*
Anthropology. Doctoral Dissertation Proposals. Contact Ms. Mary Greene, Division of Behavioral and Neural Sciences (202) 357-7804	*
Biological Research Resources. Contact Dr. James Tyler, Division of Biotic Systems and Resources (202) 357-7475	*
Industry/University Cooperative Research Projects (NSF 82-56). Contact Dr. Frederick Betz (202) 357-7785 or Mr. Alex Schwarzkopf (202) 357-7527, Division of Industrial Science and Technology Innovation.	*
Industry/University Cooperative Research Centers. Contact Mr. Robert Colton or Mr. Alex Schwarzkopf, Division of Industrial Science and Technological Innovation (202) 357-7527	*
Research in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572	*
Alternative Biological Resources (NSF 83-96). Contact Dr. H. Huang, Division of Molecular Biosciences (202) 357-9782	*
Mathematical Sciences. Programs for disciplinary research include Classical Analysis, Modern Analysis, Geometric Analysis, Topology and Foundations, Algebra and Number Theory, Applied Mathematics, and Statistics and Probability. Contact the appropriate disciplinary program for guidelines for the submission of proposals. Division of Mathematical Sciences (202) 357-9764	*

## NATIONAL INSTITUTE OF JUSTICE

Graduate Research Fellowships	March	1
Unsolicited Research Program	June	1

## NATIONAL ENDOWMENT FOR THE ARTS

Museum		
Special Projects	No Deadline	
Special Exhibitions	March	1
Collections and Resources	July	1
Media Arts Program		
National Services to the Field	May	1
Radio Projects	July	20
AFI Independent Filmmaker Awards	September	14
Programming in the Arts	September	30
Opera-Musical Theater		
Special Projects-Concert Opera	May	23
Services to the Art	May	23
New American Works/Producer Grants	September	16
Special Projects-Other	September	16

Visual Arts		
Sculpture	February	15
Crafts	March	15
Printmaking/Drawing/Artists Books	March	25

#### U.S. DEPARTMENT OF TRANSPORTATION

Fiscal Year 1985 Program of University Research	March	15
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#### U.S. DEPARTMENT OF AGRICULTURE

Special Research Grants Program for Fiscal Year 1985		
Animal Health Research	March	15
Aquaculture Research	March	29

#### NATIONAL ENDOWMENT FOR THE HUMANITIES

Humanities Programs for Nontraditional Learners	April	1
1985 Summer Seminars for College Teachers		
Participant Applications	April	1

#### NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts		
Visiting Senior Fellowships and Associates		
(For 9/16/85-2/28/86)	March	21
(For 3/1/86-8/31/86)	September	21

#### NONFEDERAL

American Cancer Society		
Postdoctoral Fellowships	March	1
Physician's Research Training Fellowships	March	1
Junior Faculty Research Awards	March	1
Faculty Research Awards	March	1
Scholars in Cancer Research	March	1
Research Professorships	March	1
Research and Clinical Investigation Grants	April	1
American Chemical Society - Petroleum Research Fund		
Grants-in-Aid	No Deadline	
American Institute for Foreign Study		
Faculty Development Positions Abroad (suggested deadline)	March	15
American Numismatic Society	March	1
American Philosophical Society		
Grants-in-Aid	Various--Contact ORA	
Andrew W. Mellon Foundation	No Deadline	
Arthritis Foundation-Minnesota Affiliate	February	15
Bosch Foundation Fellowship Program	No Deadline	
Boston University		
University Professors Postdoctoral Fellowship	March	1
Brown Foundation	No Deadline	
Burroughs Wellcome Fund		
Pharmacoepidemiology	February	15
Carnegie Corporation	No Deadline	

Center for Field Research (Earthwatch)	
Latin America Field Research Grants	No Deadline
Council for High Blood Pressure Research	March 29
Dana Foundation	No Deadline
Camille and Henry Dreyfus Foundation	
Teacher-Scholar Grants	April 15
Newly Appointed Young Faculty in Chemistry	May 15
Special Grants	June 15
Edna McConnell Clark Foundation	No Deadline
Exxon Education Foundation	No Deadline
Ford Foundation	No Deadline
Gas Research Foundation	
Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
General Motors Foundation	No Deadline
German Marshall Fund	
Short-Term Travel Awards	No Deadline
Hewlett Foundation	No Deadline
International Research and Exchanges Board (IREX)	
Developmental Fellowships	March 15 April 30
The Robert Wood Johnson Foundation	
Minority Medical Faculty Development Program	April 30
Juvenile Diabetes	
Research Grant Applications	March 1
Kaiser Family Foundation	No Deadline
Kellogg Foundation	
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
Ladies Auxiliary/Veterans of Foreign Wars	February 15
Lilly Endowment	No Deadline
MacArthur Foundation	No Deadline
March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
Small Grant	No Deadline
General Grant	
Application Draft	April 19
Final Application	May 10
Media Grant	
Application Draft	April 19
Final Application	May 10
Minnesota Medical Foundation	March 30
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Associaton	
Grants-in-Aid (Request application 5/31)	June 30
Postdoctoral Fellowships	May 31
National Foundation for Infectious Diseases	
Postdoctoral Fellowship in Medical Mycology/Janssen	March 1
Postdoctoral Fellowship in Nosocomial Infection/Roerig	March 15
Postdoctoral Fellowship in Nosocimial Infection/Beecham	March 15

National Geographic Society Grants-in-Aid	No Deadline
Orthopaedic Research and Education Foundation Resident Research Fellowships	February 15
Pew Memorial Trust	Continuous
Research Corporation (Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline
Rockefeller Brothers Fund, Inc.	No Deadline
Scottish Rite Schizophrenia Research Program Dissertation Research Fellowship Awards Final Application	March 1
Research Grant Awards Final Application (for Preapplications submitted 1/1)	March 1
Scripps-Howard Foundatin College Grants	April 15
Special Grants	April 15
Sloan Foundation	No Deadline
Southeastern Poultry and Egg Association	No Deadline
Sudden Infant Death Syndrome Foundation	March 1
Technicon Instruments Corporation Grants for Research in Biomedical and Industrial Instrumentation Pre-proposals	No Deadline
Tinker Foundation Field Research in Portugal, Spain or Latin America	No Deadline
University Genetics Company (UGEN)	No Deadline
Villers Foundation	No Deadline
Damon Runyon Walter Winchill Cancer Fund Research Directed Development of Clinical Scientist Postdoctoral Research Fellowships	March 15 March 15

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.



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# ORA RDC Newsletter

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VOLUME XV/NO. 9

## USE OF HUMAN SUBJECTS IN RESEARCH

Faculty and students are reminded that all research involving human subjects *must* be reviewed by the Committee on the Use of Human Subjects in Research. No such research may be initiated prior to receipt of written approval from the Committee. Call 373-9895 for information.

## SEMINAR ON PEER REVIEW AT THE NATIONAL INSTITUTES OF HEALTH

The Office of Research and Technology Transfer Administration is sponsoring a seminar entitled, "Peer Review at NIH" on Tuesday, April 16, 1985, at the Radisson University Hotel, 615 Washington Avenue S.E., Minneapolis, MN. The program agenda is as follows:

9:00 a.m. Welcome and Opening Remarks

9:15 a.m. Peer Review at NIH

Dr. S. Stephen Schiaffino, Deputy Director  
Division of Research Grants  
National Institutes of Health

10:15 a.m. Break

10:30 a.m. Role of an NIH Institute in Peer Review

Dr. Fred Heydrick, Chief  
Contracts, Clinical Trials and Training Review Section  
Division of Extramural Affairs  
National Heart, Lung and Blood Institute

11:30 a.m. Question and Answer Session

In addition to the formal program, Dr. Schiaffino and Dr. Heydrick will be available for personal contact with faculty from 1:30 to 3:30 in the Surgery Conference Room, 11-157 Phillips-Wangensteen Building, 516 Delaware Street S.E., Minneapolis. The seminar is designed for University of Minnesota faculty, but if space is still available on April 1, non-faculty who have returned a registration form will be registered on a first-come, first-served basis. Registration is limited to 200 individuals, and pre-registration is required. Interested individuals should return the registration form located on the back

page of this Newsletter by April 1, 1985. If you have any questions, please contact Mary Cybyske at 376-7682.

### **BIOLOGICAL SENSOR TECHNOLOGY SOUGHT**

An inquiry has been made to the Office of Patents and Licensing concerning biological sensors. There may be research funding or licensing possibilities in this area. If you are now conducting research applicable to this technology and are interested in exploring these possibilities, call Kay Terry at 373-2609.

### **HYBRIDOMA PARENTAL CELL LINE AVAILABLE**

The Office of Patents and Licensing has licensed the Taggart hybridoma parental cell line *Science* 219: 1228-1230, 1983) from HyClone Laboratories. These cells are now available to any University researcher. For more information, call Kay Terry at the Office of Patents and Licensing, 373-2609.

### **NEW PROGRAM FROM ROCKEFELLER FOUNDATION**

The Rockefeller Foundation will support research designed to generate the technology needed to apply recent advances in cellular and molecular biology to the genetic improvement of rice, and will support the transfer of this technology to the rice improvement programs of international and national agencies in developing countries. The program requires a 10-15 year commitment to targeted research and will progress through a series of stages leading from basic technology development to its applications in rice breeding programs. During 1985, the Foundation is particularly interested in receiving proposals on the following two topics: Important Agronomic Traits, and Rice Genetics. Grants will be awarded to universities or non-profit research institutions. For a copy of the brochure describing this program, please contact ORA at 376-7353.

### **GAS RESEARCH INSTITUTE**

The Basic Research Department of the Gas Research Institute (GRI) is planning a project on biological methane utilization and has issued a Request for Proposals (#86-260-0196). The objective of the planned basic research program is to identify and characterize new concepts for biological methane utilization. A funding level of \$250,000 per annum beginning in January 1986 is contemplated. It is expected that one to three new multi-year contracts may result from this Request for Proposals. In order to be considered in this RFP, your proposal must be received by GRI by 5:00 p.m., May 1, 1985. In addition to its program in biological methane chemistry, GRI is sponsoring a parallel basic research effort in methane reaction chemistry. Further information and a copy of the RFP may be obtained by calling ORA at 373-5925.

### **SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS**

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

## FEDERAL

### NATIONAL INSTITUTES OF HEALTH

Fogarty International Center, Eastern European Scientist Exchange Program	Open	
Fogarty International Center, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
Fogarty, Biomedical Research Fellowship Opportunities Abroad	June	1
Fogarty, Senior International Fellowship Program	June	1
NCI, RFA-85-CA-03, Cytogenetics and Predisposition to Cancer	March	15
NCI, RFA-85-CA-07, Smoking Prevention and Cessation Among Women (Letter of intent by 2/15)	March	15
NCI, RFA-85-CA-08, Prevention and Cessation of Use of Smokeless Tobacco (Letter of intent by 2/15)	March	15
NCI, The Role of Human Papillomaviruses in the Etiology of Cervical Cancer	June	1
NCI, RFA-84-CA-08, Cancer Control Research Units (REVISED DATES, Letter of intent by 2/4)	June	11
NCI/NIAID/NIAIDDK/NICHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases: Research Grants	July	1
NCI, Biochemistry and Pharmacology Program	July	1
NCI, Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	July	1
NCI, Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	July	1
NCI, Prediction of Tumor Response to Radiation Therapy	July	1
NCI, Medical Imaging for Diagnosis and Treatment of Cancer	July	1
NCI, Research on Biological Response Modifiers	July	1
NEI, Instrumentation Projects	May	1
NEI, RFAEY 85-01, Instrumentation, Alteration and Renovation and Construction	May	15
NEI, Small Grants Program for Pilot Projects	June	1
NHLBI, RFA-85-HL-17-H, Molecular Mechanisms Controlling Myocardial Growth and Hypertrophy	March	15
NHLBI, Protection of the Immature Myocardium	March	15
NHLBI, RFA-85-HL-07-H, Cell Biology of the Vasculature in the Pathogenesis of Hypertension	April	1
NHLBI, RFA-85-HL-06-H, Blood Vessels of the Brain and Neck	April	1
NHLBI, RFA-85-HL-05-H, Juvenile Hypertension and the Prehypertensive State	April	1
NHLBI, RFA-85-HL-04-H, Endothelial and Smooth Muscle Cell Interactions in Lung	April	1
NHLBI, RFA-85-HL-08-H, Molecular Genetics and Hypertension	April	1

NHLBI, Minority Institutional Research Training Grant	April	1
NHLBI, Minority School Faculty Development Award	April	1
NHLBI, RFA-85-HL-09-H, Cellular and Molecular Biology of the Atherosclerotic Lesion	April	2
NHLBI, RFA-85-HL-12-L, Airway Smooth Muscle: Biology and Pharmacology	April	15
NHLBI, Research Career Development Award: Basic Science Related to the Respiratory System	June	1
NHLBI, Career Development Programs for Physicians in Cardiac and Vascular Research in Cerebrovascular Disease:		
Physician Scientist Award	June	1
Clinical Investigator Award	June	1
NHLBI, Demonstration and Education Research Related to Pulmonary Disease	July	1
NHLBI, Arrhythmia Detection and Discrimination from Electrograms	July	1
NHLBI, Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young	July	1
NHLBI, Minimally Invasive Measurement of Blood Pressure in the Heart and Central Arteries	July	1
NHLBI, Development of Genetic Hypertensive Animal Models	July	1
NHLBI, Blood Transfusion and Cytomegalovirus Infection	July	1
NHLBI, Surfactants for Perflurochemicals	July	1
NHLBI, Minority Summer Program in Pulmonary Research	August	1
NHLBI, RFA-85-HL-01-1-L, Specialized Centers of Research Concerned with Respiratory Disorders of Neonates and Children/National Research and Demonstration Centers for Respiratory Disorders of Neonates and Children	September	2
NHLBI, RFA-85-HL-10-H, Specialized Centers of Research in Arteriosclerosis (SCOR-A) and National Research and Demonstration Centers in Arteriosclerosis (NRDC-A)	September	16
NHLBI, RFA-85-HL-02-L, Specialized Centers of Research and National Research and Demonstration Centers: Chronic Diseases of the Airways/Occupational and Immunological Lung Diseases/Pulmonary Vascular Diseases	December	2
NIA, The Oldest Old:		
Program Project Grants	June	1
Individual Postdoctoral Fellowships	June	1
Research Grants	July	1
New Investigator Awards	July	1
NIA/NIAID/NIADDK/NICHHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	June	1
NIA, Small Grant Awards for Pilot Projects	June	1
NIA, Complementary Training Awards for Research on Aging	June	1
NIA, Geriatric Leadership Academic Award	July	1
NIADDK, DDEMD, Scientific Instrumentation Grants	April	15
NIADDK/NICHHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	July	1
NIADDK/NIA/NIAID/NICHHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	July	1
NIAID, Minority Research Enhancement Program	Open	
NIAID, Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
Career Development	June	1
Physician Scientist	June	1

Clinical Investigator	June	1
Postdoctoral Fellow	June	1
New Grants	July	1
New Investigator	July	1
NIAID, RFA-85-AI-01, Program Projects on Mechanisms of Immunologic Diseases	June	15
NIAID, Biology of the Immune System (Letter of intent by 4/1/85)	June	15
NIAID, Human Papilloma Viruses and Genital Warts	July	1
NIAID, Mechanisms of Action of the Drug Cyclosporine	July	1
NIAID, Centers: Asthma and Allergic Disease/Immunodermatologic Diseases (Letter of intent by 7/15/85)	October	15
NIAID, Centers for Interdisciplinary Research on Immunologic Diseases (Letter of intent by 7/15/85)	October	15
NICHHD, Consequences of Infertility and Fertility-Related Problems	March	15
NICHHD, RFA-85-HD-03, Reproductive Disorders	April	1
NICHHD, Physical Activity in Pregnancy	July	1
NIDR, Small Grant Program	June	1
NIDR, Dentist Scientist Award	June	1
NIDR, Orofacial Pain Research Centers	June	15
NIEHS, Specialized Centers of Research	June	1
NIEHS, Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	June	1
NIEHS, Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	June	1
NIEHS, Specialized Centers of Research in Genetic Toxicology	June	1
NIEHS/NIADDDK, Effect of Environmental Agents on the Endocrine System	July	1
NIH, Research Grants, Renewals	June	1
NIH, Research Career Development Awards	June	1
NIH, Individual Postdoctoral Fellowships	June	1
NIH, Institutional Training Programs	June	1
NIH, Research Grants, New	July	1
NIH, New Investigator Awards	July	1
NINCDS, Clinical Investigator Development Award	June	1
NINCDS/NIMH, Autism and Related Behavioral Disorders	July	1
NINCDS, Research Grants on Status Epilepticus	July	1
NINCDS, Research Grants on Basic Mechanisms of the Epilepsies	July	1
NIOSH, Research and Demonstrations Relating to Occupational Safety and Health:		
Special Emphasis Research Career Award	June	1
Small Grant Program	June	1
Research Grants	July	1
Demonstration Grants	July	1
Program Project Grants	July	1
NLM, National Reference Center for Bioethics Literature	April	1
NLM, Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	July	1
NLM, Investigator-Initiated Research Grants/New Investigator Research Awards	July	1

## NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award <u>for each</u> : School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
NHLBI, Research Training and Development Area: National Research Service Award Programs		
Institutional Research Training Grant Award	June	1
Individual Postdoctoral Fellowship Award	June	1
Senior Research Fellowship Award	June	1
Short-Term Research Training: Students in Health Professional Schools	May	1
Research Career Development Programs		
Research Career Development Award	June	1
Clinical Investigator Award	June	1
Physician Scientist Award	June	1
Preventive Cardiology Academic Award	July	1
Special Emphasis Research Career Award: Diabetes Mellitus	June	1
Development-Related Program	July	1
Career Development Programs for Physicians in Cardiac and Vascular Research in Cerebrovascular Disease	June	1
NHLBI/NIAMDD, SERCA: Diabetes Mellitus-Cardiovascular, Metabolic and Endocrinologic Aspects	June	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NICHD/NIAMDD, SERCA: Diabetes-Mellitus-Obstetrical, Perinatal, and Pediatric Aspects	June	1

## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA/NIH/NCHSR, Research on Digestive Diseases: Research Career Development	June	1
Research Grants	July	1
ADAMHA, Research Grants, Renewals	June	1
ADAMHA, Individual Postdoctoral Fellowships	June	1
ADAMHA, Institutional Training Grants, NRSA	June	1
ADAMHA, Research Scientist Development/Research Scientist Award	June	1
ADAMHA, Research Grants, New	July	1
NIA, Studies on Exercise Physiology and Aging	July	1
NIAAAA/NIDA/NIMH, Institutional NRSA Training	June	1
NIDA/NIAAAA, Community Prevention Research in Alcohol and Drug Abuse	July	1
NIDA, Drug Abuse Prevention Research	July	1
NIDR, Osteogenesis Imperfecta	July	1
NIMH, Support for Child and Adolescent Mental Health Research and Research Training:		
Individual Postdoctoral Training	June	1
Institutional Research Training	June	1
Research Grants	July	1

NIMH, Child and Adolescent Mental Health Research and Research Training:		
Institutional Training Grants	June	1
Research Grants	July	1
NIMH, Geriatric Mental Health Award	July	1
NIMH, Clinical Investigator Award	July	1
NIMH, Research Grants Program	July	1
NIMH, Physician Scientist Award	July	1
NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders	July	1
NIMH/NIDA, Research on Obesity	July	1
NIMH/NINCDS, Autism and Related Behavioral Disorders	July	1
NIMH, Clinical Research Centers on Psychopathology of the Elderly	July	1
NIMH, Research on Mental Illness in Nursing Homes	July	1

### NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
Grants for Health Services Dissertation Research	March	15
Research on Digestive Diseases	July	1
NCHSR Extramural Research	July	1

### OFFICE OF FAMILY PLANNING PROGRAMS

Family Planning Services Delivery Improvement Research	March	22
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### OFFICE OF ADOLESCENT PREGNANCY PROGRAMS

Grants for Research on Adolescent Family Life	April	15
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### FOOD AND DRUG ADMINISTRATION

Research Grants, Renewals	June	1
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### HEALTH CARE FINANCING ADMINISTRATION

Health Financing Research and Demonstration Grants	April	15
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### CENTERS FOR DISEASE CONTROL

Cooperative Agreements; Preventive Health Services - Tuberculosis Control	April	5
Research and Demonstrations Relating to Occupational Safety and Health - (SERCA Grants and Small Grants)	July	1
	June	1

### HEALTH RESOURCES AND SERVICES ADMINISTRATION

Maternal and Child Health (MCH) Projects		
Special MCH Improvement Projects	March	15
Training		
New	March	22
Continuations	June	14
Genetic Disease Testing, Counseling and Information	May	1
Hemophilia Diagnostic and Treatment Centers	May	1

Training Personnel for the Education of the Handicapped - Special Projects	March	21
Home Health Services and Training	April	30

## DEPARTMENT OF EDUCATION

Research in Education of the Handicapped-Student Initiated Research Projects	March	15
Training Personnel for the Education of the Handicapped Special Projects	March	21
Research in Education of the Handicapped-Special Population/Handicapped Population	April	2
Auxiliary Activities; Innovative Programs for Severely Handicapped Children	April	8
NIHR-Special Projects and Demonstrations for Spinal Cord Injuries	April	15
Discretionary Grant Programs		
Centers for Independent Living	March	15
Bilingual Ed -- Basic Projects -- Noncompeting Continuations	March	15
Handicapped Migratory Agricultural and Seasonal Farm Worker Vocational Rehabilitation Service Projects		
Continuations	March	29
New	May	1
Educational Media Research, Production Distributor and Training Program	April	1
Planning Projects to Develop Teacher Incentive Structures	April	15
Initiating Special Recreation Programs for Handicapped Individuals	May	6
Handicapped Children's Early Education Program - Early Childhood State Plan	May	17
Research in Education of the Handicapped - Field Initiated Research Projects	June	21
Law School Clinical Experience Program	March	25

## NATIONAL INSTITUTE OF EDUCATION

Planning Grants and Institutional Grants for Educational Research and Development Centers: Institutional Grants	June	6
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## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

U.S.-United Kingdom Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	April	1
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U.S.-Australia Cooperative Science (NSF 81-49 as revised Jan. 1982). All proposals for individual visits from one to 12 months by U.S. scientists to Australia for research beginning any time in 1986; other proposals (e.g., seminars, cooperative research exchanges, no cost visits by Australians to the U.S.) with requested effective dates falling between January 1 and June 30, 1986. Contact the Division of International Programs (202) 357-9558	April	1
U.S.-New Zealand Cooperative Science. All proposals for projects with requested effective date falling between January 1 and June 30, 1986. Contact the Division of International Programs (202) 357-9558	April	1
U.S.-France Cooperative Science (NSF 83-73). Proposals for cooperative research projects and joint workshops/seminars with requested effective dates in calendar year 1986. Contact the Division of International Programs (202) 357-7554	May	1
U.S.-Argentina Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Brazil Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Mexico Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Venezuela Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Latin America and Caribbean Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Japan Cooperative Science (NSF 81-58). Proposals for cooperative research and joint seminar activities are accepted in May each year; proposals for long-term visits (6-12 months) are accepted throughout the year. Contact the Division of International Programs (202) 357-9558	June	1

U.S.-Italy Cooperative Science (NSF 83-73). Proposals for cooperative research projects, joint seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	June	1
U.S.-Switzerland Cooperative Science (NSF 83-73). Proposals for joint research, seminars and long-term research visits. Contact the Division of International Programs (202) 357-7554	June	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	June	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	June	1
U.S.-Korea Cooperative Science (NSF 83-50). Proposals for long-term visits and cooperative research only. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	July	1
U.S.-East Asia Cooperative Science (NSF 83-50). Philippine component only. Proposals for long-term visits, cooperative research, seminars and workshops. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	July	1
Presidential Young Investigators Awards	July	1
Small Business Innovation Research. Contact Mr. Roland Tibbetts or Mr. Ritchie Coryell, Division of Industrial Science and Technological Innovation (202) 357-7527	July	15
VLSI (Very Large Scale Integration) Fast Turnaround Fabrication Service for Universities (NSF 83-43). Contact Dr. Andrew Molnar, Directorate for Science and Engineering Education (202) 357-7539	August	1
Ethics and Values in Science and Technology (NSF 83-62). Formal proposals. Contact Dr. Rachelle Hollander, Division of Research Initiation and Improvement (202) 357-7552	August	1
Special Research Initiation Awards for New Investigators in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572	August	7
U.S.-United Kingdom Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September	1
U.S.-Austria Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September	15

U.S.-Federal Republic of Germany Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September 15
Cooperative Science Activities with Denmark, the Netherlands, and Norway (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September 15
U.S.-Finland Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-Sweden Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-Spain Cooperative Program in Basic Sciences (NSF 84-10). Proposals for cooperative research, joint seminars, exchange of scientists, and short term visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-India Exchange of Scientists (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September 15
Coordinated Experimental Research (NSF 83-60). Limited to Ph.D.-granting institutions with research programs in computer science and engineering. Contact Dr. W. Richards Adrion, Division of Computer Research (202) 357-7375	September 16
U.S.-Australia Cooperative Science (NSF 81-49, as revised Jan. 1982). For seminars, cooperative research projects in which reciprocal (exchange) visits are proposed, and visits by Australians to the United States (i.e. no cost to NSF) only, for requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October 1
U.S.-New Zealand Cooperative Science (NSF 81-50). Proposals for projects with requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October 1
NATO Advanced Study Institute Travel Awards	November 1
NATO Postdoctoral Fellowships in Science	November 1

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Ethics and Values in Sciences and Technology (NSF 83-62). Preliminary Proposals. Contact Dr. Rachelle Hollander, Division of Research Initiation and Improvement (202) 357-7552	May 1
U.S.-Eastern European Cooperative Science (NSF 81-27). Bulgaria, Hungary, and Romania: Contact Ms. Deborah Wince (202) 357-9516. Czechoslovakia and German Democratic Republic: Contact Dr. Gerson Sher, Division of International Programs (202) 357-7494	May 1

Doctoral Dissertation Research in Biotic Systems and Resources (NSF 83-71). Contact Dr. James Edwards. Division of Biotic Systems and Resources (202) 357-9588	May	1
Climate Dynamics. Contact Dr. Thomas Crowley, Division of Atmospheric Sciences (202) 357-9892	May	1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	June	1
Ocean Drilling Program, U.S. Science. Contact Ms. Sandra Toye, Division of Ocean Sciences (202) 357-9849	June	1
U.S. Antarctic Research (NSF 82-34). Funding to support field work in Antarctica during the 1986/87 austral summer and 1987 winter). Contact Mr. Guy Guthridge, Division of Polar Programs (202) 357-7766	June	1
Metabolic Biology (NSF 83-96). Contact Dr. William van B. Robertson or Ms. Carter Kimsey, Division of Molecular Biosciences (202) 357-7987	June	3
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	June	14
Ecosystem Studies. Contact Dr. James Gosz, Division of Biotic Systems and Resources (202) 357-9596	June	14
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	June	14
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	June	14
Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	June	30
Biochemistry (NSF 83-96). Contact Dr. Arnold ReVzin or Ms. Estella Engel, Division of Molecular Biosciences (202) 357-7945	July	1
Biophysics (NSF 83-96). Contact Dr. Arthur Kowalsky or Ms. Brenda Flam, Division of Molecular Biosciences (202) 357-7777	July	1
Cell Biology (NSF 83-96). Contact Dr. Gertrude Kasbekar, Division of Cellular Biosciences (202) 357-7474	July	1
Cellular Physiology (NSF 83-96). Contact Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (202) 357-7377	July	1
Developmental Biology (NSF 83-96). Contact Dr. Donald Fosket or Dr. Jane Peterson, Division of Cellular Biosciences (202) 357-0112	July	1
Eukaryotic Genetics (NSF 83-96). Contact Dr. DeLill Nasser, Division of Cellular Biosciences (202) 357-0112	July	1
Regulatory Biology (NSF 83-96). Contact Dr. Elvira Doman, Division of Cellular Biosciences (202) 357-0112	July	1
Molecular and Cellular Neurobiology (NSF 84-9). Contact Dr. Joel Colton, Division of Behavioral and Neural Sciences (202) 357-7471	July	1
Prokaryotic Genetics (NSF 83-96). Contact Dr. Philip Harriman or Dr. Rolf Benzinger, Division of Molecular Biosciences (202) 357-9687	July	1
Psychobiology (NSF 84-9). Contact Dr. Fred Stollnitz, Division of Behavioral and Neural Sciences (202) 357-7949	July	1
Social and Developmental Psychology (NSF 84-9). Contact Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (202) 357-9485	July	1

Earth Sciences: Stratigraphy and Paleontology; Surficial Processes; Crustal Structure and Tectonics; Seismology; Experimental and Theoretical Geophysics; Petrogenesis and Mineral Resources; Volcanology and Mantle Geochemistry; Experimental and Theoretical Geochemistry; Continental Lithosphere; and Instrumentation and Facilities. For Earth Sciences Research Equipment (NSF 83-28). Contact Dr. James Hays, Division of Earth Sciences (202) 357-7958	July	1
Ship Operations Support. Instructions for preparation of proposals requesting support for: Ship Operations Support (NSF 81-18). Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	July	1
Shipboard Technicians. Instructions for preparation of proposals requesting support for: Shipboard Technicians (NSF 81-23). Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	July	1
Climate Dynamics. Contact Dr. Thomas Crowley, Division of Atmospheric Sciences (202) 357-9892	August	1
Developmental Neurosciences (NSF 84-9). Contact Dr. Jean Lauder, Division of Behavioral and Neural Sciences (202) 357-7042	August	1
Integrative Neural Systems (NSF 84-9). Contact Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (202) 357-7040	August	1
Linguistics (NSF 84-9). Contact Dr. Paul Chapin, Division of Behavioral and Neural Sciences (202) 357-7696	August	1
Memory and Cognitive Processes (NSF 84-9). Contact Dr. Joseph Young, Division of Behavioral and Neural Sciences (202) 357-9898	August	1
Sensory Physiology and Perception (NSF 84-9). Contact Dr. James Larimer, Division of Behavioral and Neural Sciences (202) 357-7428	August	1
Decision and Management Science. Contact Dr. Trudi Miller, Division of Social and Economic Science (202) 357-7569	September	1
Economics. Contact Dr. James Blackman, Dr. Daniel Newlon, Dr. Lynn Pollnow, or Dr. James Slaugh, Jr., Division of Social and Economic Science (202) 357-9675	September	1
Geography and Regional Science. Contact Dr. Ronald Abler, Division of Social and Economic Science (202) 357-7441	September	1
History and Philosophy of Science. Contact Dr. Ronald Overmann or Ms. Bonney Sheahan, Division of Social and Economic Science (202) 357-9677	September	1
Law and Social Sciences. Contact Dr. Felice Levine or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-9567	September	1
Oceanographic Instrumentation. Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	September	1
Shipboard Scientific Support Equipment. Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	September	1
Arctic Research (NSF 82-33). For arctic summer beginning March 1, 1986. Contact Mr. Guy Guthridge, Division of Polar Programs (202) 357-7766	September	1

Ocean Sciences Instrumentation Development. Request the brochure "Proposals for Ocean Sciences Instrumentation Development," from Mr. H. Lawrence Clark, Division of Ocean Sciences (202) 357-7837	September	1
Measurement Methods and Data Improvement. Contact Dr. Murray Aborn or Dr. Sara Nerlove, Division of Social and Economic Science (202) 357-7913	September	1
Political Science. Contact Dr. Frank Scioli, Jr., Division of Social and Economic Science (202) 357-7534	September	1
Regulation and Policy Analysis. Contact Dr. Laurence Rosenberg, Division of Social and Economic Science (202) 357-7417	September	1
Sociology. Contact Dr. Joanne Miller, Dr. Thomas Guterbock, or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-7802	September	1
Sub-Saharan Africa Cooperative Science (NSF 84-26). Contact Mr. Robert Bell, Division of International Programs (202) 357-9550	September	1
Science in Developing Countries. Contact Sub-Saharan Africa: Mr. Robert Bell (202) 357-9550; North Africa and Turkey: Mr. Francis Field (202) 357-9402; South and West Asia: Dr. Osman Shinaishin (202) 357-9402; East Asia: Dr. Gordon Hiebert (202) 357-9537; and Latin America and Caribbean: Ms. Christine French, Division of International Programs (202) 357-9563	September	1
U.S.-East Asia Cooperative Science (NSF 83-50). Indonesia, Malaysia, Singapore, Thailand. Contact Dr. Gordon Hiebert, Division of International Programs (202) 357-9537	September	1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	September	30
Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	September	30
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	October	1
Doctoral Dissertation Research in Biotic Systems and Resources. Contact Dr. James Edwards, Division of Biotic Systems and Resources (202) 357-9588	October	1
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	October	1
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	October	1
Productivity Improvement Research (NSF 84-16). Contact Dr. J. D. Eveland, Dr. William Hetzner, or Dr. E. C. Johnson, Division of Industrial Science and Technological Innovation (202) 357-9804	October	1

## NATIONAL INSTITUTE OF JUSTICE

Technology Assessment Program/Testing Information Center	April	1
Summer Research Fellowship Program	April	2
Applied Research Grants - Crime Control	May	1
Applied Research Grants - Drugs Alcohol	May	22
Unsolicited Research Program	June	1

## NATIONAL ENDOWMENT FOR THE ARTS

Museum		
Special Projects	No Deadline	
Collections and Resources	July	1
Media Arts Program		
National Services to the Field	May	1
Radio Projects	July	20
AFI Independent Filmmaker Awards	September	14
Programming in the Arts	September	30
Opera-Musical Theater		
Special Projects-Concert Opera	May	23
Services to the Art	May	23
New American Works/Producer Grants	September	16
Special Projects-Other	September	16
Visual Arts		
Crafts	March	15
Printmaking/Drawing/Artists Books	March	25

## U.S. DEPARTMENT OF TRANSPORTATION

Fiscal Year 1985 Program of University Research	March	15
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## U.S. DEPARTMENT OF THE INTERIOR

U.S. Geological Survey, Announcement No. 105 Underwater Resources Research Act	April	15
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## U.S. DEPARTMENT OF AGRICULTURE

Special Research Grants Program for Fiscal Year 1985		
Animal Health Research	March	15
Aquaculture Research	March	29
Competitive Research Grants Program		
Acid Precipitation	March	22
Soybean Research	March	22
Alcohol Fuels Research	March	22

## NATIONAL ENDOWMENT FOR THE HUMANITIES

Media Projects	March	21
Humanities Programs for Nontraditional Learners	April	1
1986 Summer Seminars for College Teachers		
Participant Applications	April	1
Central Disciplines in Undergraduate Education	April	1
Challenge Grants	May	1
Exemplary Projects in Undergraduate and Graduate Education	May	15

## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts  
Visiting Senior Fellowships and Associates  
(For 9/16/85-2/28/86)  
(For 3/1/86-8/31/86)

March 21  
September 21

## NATIONAL RESEARCH COUNCIL

Research Associateship Postdoctoral Awards

April 15

## INSTITUTE OF MUSEUM SERVICES

Conservation Project

May 1

## NONFEDERAL

American Associations of Museums; Assessment Program	April 26
American Cancer Society	
Research and Clinical Investigation Grants	April 1
American Chemical Society - Petroleum Research Fund	
Grants-in-Aid	No Deadline
American Institute for Foreign Study	
Faculty Development Positions Abroad (suggested deadline)	March 15
American Philosophical Society	
Grants-in-Aid	Various--Contact ORA
Andrew W. Mellon Foundation	No Deadline
Bosch Foundation Fellowship Program	No Deadline
Brown Foundation	No Deadline
Carnegie Corporation	No Deadline
Center for Field Research (Earthwatch)	
Latin America Field Research Grants	No Deadline
Council for High Blood Pressure Research	March 29
Camille and Henry Dreyfus Foundation	
Teacher-Scholar Grants	April 15
Newly Appointed Young Faculty in Chemistry	May 15
Special Grants	June 15
Corporation for Public Broadcasting - Program Fund	April 15
Dana Foundation	No Deadline
Distilled Spirits Council; Grants-in-Aid	May 1
Dr. Scholl Foundation	May 15
Edna McConnell Clark Foundation	No Deadline
Exxon Education Foundation	No Deadline
Ford Foundation	No Deadline
Gas Research Foundation	
Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
General Motors Foundation	No Deadline
German Marshall Fund	
Short-Term Travel Awards	No Deadline
Hewlett Foundation	No Deadline
International Research and Exchanges Board (IREX)	
Developmental Fellowships	March 15
Travel Grants for Senior Scholars	April 30



Collaborative Activities and New Exchanges	April	30
The Robert Wood Johnson Foundation		
Minority Medical Faculty Development Program	April	30
Kaiser Family Foundation	No Deadline	
Kellogg Foundation		
Expanding Opportunities for Adult Continuing Education	Continuous	
Health Promotion and Disease Prevention Programs	Continuous	
Coordinated, Cost-Effective Health Service Programs	Continuous	
Improving Human Well Being through Productive Agriculture	Continuous	
Fostering Leadership Capacity	Continuous	
Lilly Endowment	No Deadline	
MacArthur Foundation	No Deadline	
March of Dimes Birth Defects Foundation		
Basil O'Connor Starter Research Grants	Continuous	
Mathers Charitable Foundation	Continuous	
Metropolitan Life Foundation	No Deadline	
Milheim Foundation; Cancer Research Grants	March	15
Minnesota Humanities Commission		
Small Grant	No Deadline	
General Grant		
Application Draft	April	19
Final Application	May	10
Media Grant		
Application Draft	April	19
Final Application	May	10
Minnesota Medical Foundation	March	30
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline	
Muscular Dystrophy Associaton		
Grants-in-Aid	June	30
Postdoctoral Fellowships (Request application 5/31)	June	30
National Foundation for Infectious Diseases		
Postdoctoral Fellowship in Nosocomial Infection/Roerig	March	15
Postdoctoral Fellowship in Nosocomial Infection/Beecham	March	15
National Geographic Society		
Grants-in-Aid	No Deadline	
Pew Memorial Trust	Continuous	
Research Corporation		
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline	
Rockefeller Brothers Fund, Inc.	No Deadline	
Scripps-Howard Foundatin		
College Grants	April	15
Special Grants	April	15
Sigma Xi; Grants-in-Aid of Research	May	1
Sloan Foundation	No Deadline	
Southeastern Minnesota Arts Council, Inc.	April	1
Southeastern Poultry and Egg Association	No Deadline	
Spencer Foundation	May	1
Spencer Research Grants in Behavioral Sciences	May	1
Technicon Instruments Corporation		
Grants for Research in Biomedical and Industrial Instrumentation		
Pre-proposals	No Deadline	
Tinker Foundation		
Grant Application	March	31
University Genetics Company (UGEN)	No Deadline	
Villers Foundation	No Deadline	

Damon Runyon Walter Winchill Cancer Fund

Research Fellowships Development of Clinical Scientist  
Postdoctoral Research Fellowships for Basic Scientists

March 15  
March 15

PEER REVIEW AT NIH  
April 16, 1985  
Radisson University Hotel

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Department: \_\_\_\_\_ Telephone: \_\_\_\_\_

Campus Mailing Address: \_\_\_\_\_

RETURN FORM BY APRIL 1, 1985 TO:

Office of Research and Technology Transfer Administration  
University of Minnesota  
1919 University Avenue  
St. Paul, MN 55104

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

# ORA RDC Newsletter

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APRIL 1985

VOLUME XIV/NO. 10

## NIH SEMINAR ON PEER REVIEW

As announced in the March Newsletter, the National Institutes of Health is presenting a faculty seminar entitled "Peer Review at NIH" on Tuesday, April 16, from 9:00 a.m. to 12:00 noon at the Radisson University Hotel, 615 Washington Avenue S.E.. An open session for personal contact with NIH staff is scheduled from 1:30 to 3:30 at 11-157 Phillips-Wangensteen Building. Speakers will be Dr. S. Stephen Schiaffino, Deputy Director, Division of Research Grants, NIH, and Dr. Fred Heydrick, Chief, Contracts, Clinical Trials and Training Review Section, Division of Extramural Affairs, NHLBI. The seminar is free but attendance is limited to 200. Pre-registration is required by April 1. Call ORA at 376-7682 for registration material.

## IMPACT OF PROPOSED FEDERAL BUDGET UPON UNIVERSITY RESEARCH FUNDING

The following report on the proposed federal research budget for FY1985 was recently distributed to Deans, Directors and Department Heads by A. R. Potami, Assistant Vice President for Research and Technology Transfer, and is reproduced here for your information.

Federal support of University research might decline slightly -- about 2.3% -- if President Reagan's proposed federal budget for October 1, 1985 through September 30, 1986, were enacted unchanged. Although individual programs and departments might be affected significantly, the proposed budget should have only a moderate impact upon the University as a whole, assuming that the percentage of federal funding coming to the University remains essentially unchanged from previous years. Viewed in constant dollars, however, the situation appears more serious. Any increase less than the 4.3% assumed inflation rate would represent a net decline. The attached two charts break down the federal research budget by agency and contrast this year's estimated obligations with fiscal year 1986's proposed budget.

President Reagan's budget for fiscal year 1986 requests \$57,598 million for research and development, a 13.0% increase over this year. It is most meaningful, however, to compare basic research budgets, about fifty percent of which would go to universities. \$7,862 million of the federal research and development budget is proposed for basic research, a 1.0% increase over this year, or a virtual freeze on federal spending. The freeze would be selective, however; some areas would prosper -- predominately the physical sciences and engineering -- while others -- mainly the life sciences -- would decline.

Health and Human Services. D.H.H.S.'s basic research budget would drop 5.5%, to \$3,049 million; its N.I.H. component would decline 5.8%, to \$2,847 million. N.I.H. would support 5,000 new and competing grants -- its "historical point of reference" -- 11,242 continuing projects, and 500 research centers. The A.D.A.M.H.A. would fund 500 new and competing grants. In other biomedical areas, the health professions education programs and A.D.A.M.H.A. clinical training funds would be eliminated, although NIH's budget to support research trainees would remain unchanged from fiscal year 1985, and payments reimbursing teaching hospitals for the higher-than-average costs of their teaching facilities would be halved.

Education. The proposal would freeze the National Institute of Education's budget at fiscal year 1985 levels; education's basic research budget would remain unchanged at \$12 million. However, the Fund for the Improvement of Postsecondary Education would be eliminated, along with library support and institutional assistance for international and cooperative education.

Agriculture. Agriculture's basic research budget would decline 4.9%, to \$418 million. The proposed budget would eliminate regional research grants and would freeze U.S.D.A. competitive grants at fiscal year 1985 levels. Hatch Act payments to land-grant universities would remain unchanged from fiscal year 1985, and Agricultural Research Service funding would decline only slightly.

National Science Foundation. The proposal would increase N.S.F.'s basic research budget 7.3%, to \$1,366 million. Funding would emphasize three priorities: 1) programs strengthening America's economic competitiveness, 2) science and engineering infrastructure, and 3) disciplines that are N.S.F.'s "special responsibility". Thus math and engineering would increase 15.0% and 13.0% respectively, much of the latter going to cross-disciplinary engineering research centers. Social and economic sciences would grow 19.0%; earth sciences would increase 12.0%. Funding for equipment and instrumentation would grow 13.0%; support for academic researchers to utilize supercomputers would increase 12.0%. In addition, the science and engineering education budget, unchanged from fiscal year 1985, would support over 14,000 graduate students and postdoctoral fellows. By contrast, the Ethics and Values in Science and Technology program would be eliminated, and many policy analysis and international programs would be slashed.

Energy. Energy's basic research budget would increase barely 2.4%, to \$934 million. Funding for energy conservation, fossil fuels, and solar energy would be cut sharply. Support for high energy and nuclear physics would decline about 6.0%; environmental research, however, would continue at fiscal year 1985 levels. The proposal would fund continued development of the Continuous Electron Beam Accelerator Facility, designs for the Superconducting Super Collider, and research programs associated with construction at national laboratories. By contrast, support for energy technology development programs would decrease 8.4%.

Defense. The proposal would increase defense's basic research budget 16.0%, to \$962 million. Research underlying tactical weapons systems development, especially the Strategic Defense Initiative -- "Star Wars" -- would be emphasized. In addition a program to increase basic research support -- a new thrust for D.O.D. -- would be initiated, with \$25 million earmarked for universities.

N.A.S.A. N.A.S.A.'s basic research budget would increase 4.1%, to \$834 million. Overall, many priorities would remain unchanged; research towards the Space Station, the Upper Atmosphere Research Satellite, the Mars

Geoscience/Climatology Orbiter, the Gamma Ray Observatory, and the Scatterometer --jointly with the Navy -- would be emphasized.

In other areas, the proposed budget would eliminate the Sea Grant Program, phase out the Institute of Museum Services, and reduce funding for the National Endowments for the Humanities and the Arts by 10.0% and 12.0%, respectively. The Environmental Protection Agency's basic research budget, however, would increase 8.0%, to \$40 million, emphasizing hazardous wastes, acid rain, and pesticides.

Assessing the proposed budget's impact upon the University is difficult. Assuming that the University's overall percentage of federal funding would remain essentially unchanged from previous years, so that increases and decreases among federal agencies would be the only variables, and prorating the University's historic levels of support over the changes proposed, the University's direct federal funding would decrease about 2.3%. Increases in physical sciences and engineering would not offset decline in health sciences. Many imponderables are involved, however. The University's overall percentage of federal support might increase or decrease. Increased federal research and development funding to industry might come to the University or faculty as subcontracts or consultantships. Conversely, freeze or decline in education, health, arts, or humanities funding could adversely impact University support from state and local agencies, a portion of whose funding is federal.

The greatest unknown, however, is the final budget. The proposal represents executive branch priorities and objectives. The entire budget is subject to Congressional revisions. The budget as finally enacted, therefore, may be considerably different from that proposed, with different implications for University funding.

Conduct of Research and Development  
by Major Departments and Agencies  
(in millions of dollars)

<u>Department</u>	<u>1985 Estimate</u>	<u>1986 Estimate</u>	<u>% Change</u>
Defense	\$32,318	\$39,426	22.0%
Health and Human Services	5,472	5,159	-5.7%
National Inst. of Health	4,835	4,561	-5.7%
Energy	4,805	4,712	-1.9%
NASA	3,506	3,730	6.4%
National Science Foundation	1,354	1,447	6.8%
Agriculture	940	882	-6.1%
Transportation	480	362	-24.6%
Interior	378	335	-11.3%
EPA	312	327	4.8%
Commerce	384	271	-29.4%
AID	217	225	3.7%
Veterans Administration	227	190	-16.3%
Nuclear Regulatory Commission	150	138	-8.0%
All Other	417	396	-5.0%
<b>TOTAL</b>	<b>\$50,958</b>	<b>\$57,598</b>	<b>13.0%</b>

Conduct of Basic Research  
by Major Departments and Agencies  
(in millions of dollars)

<u>Department</u>	<u>1985 Estimate</u>	<u>1986 Estimate</u>	<u>% Change</u>
<u>Physical Sciences</u>			
National Science Foundation	\$ 1,273	\$ 1,366	7.3%
Defense	829	962	16.0%
Energy	912	934	2.4%
NASA	801	834	4.1%
Interior	130	119	-8.8%
Commerce	22	18	-18.2%
Other	9	10	11.1%
Subtotal	\$ 3,976	\$ 4,243	6.7%
<u>Life Sciences</u>			
Health and Human Services	\$ 3,225	\$ 3,049	-5.5%
National Inst. of Health	3,022	2,847	-5.8%
Agriculture	440	418	-4.9%
Smithsonian	65	64	-1.5%
EPA	37	40	8.1%
Veterans Administration	15	16	6.7%
Education	12	12	0.0%
Other	17	22	32.5%
Subtotal	\$ 3,810	\$ 3,621	-5.0%
TOTAL	\$ 7,786	\$ 7,862	1.0%

**NSF TEACHER ENHANCEMENT AND INFORMAL SCIENCE EDUCATION**

The objectives of this National Science Foundation (NSF) program are: 1) Identify well-trained and highly skilled elementary and secondary school master teachers; 2) Provide teachers experience with up-to-date content, developments in educational technology, teaching methods, and research in teaching and learning they can use to enrich and improve instruction; 3) Provide effective opportunities for in-service, peer teaching supported and encouraged by school administrations and community resources; 4) Provide the teaching community with people trained to implement improved education in mathematics, science, and technology effectively and widely; 5) Recognize and honor precollege teaching professionals and provide role models, including women, minority and physically-handicapped master teachers; 6) Provide an incentive to establish cooperative and collaborative regional partnerships among schools, colleges and universities, the private sector, and others that will continue to use the human resources developed and that will build upon projects initially funded in part by the NSF; 7) Develop leadership programs that serve as a magnet for attracting the most talented individuals into education. This program is effective April 1. For more information, call Mary Bergaas at 373-2784.

**EPA FUNDAMENTAL COMBUSTION RESEARCH**

The Environmental Protection Agency (EPA) has a requirement for chemical and physical modeling studies of various EPA in-house combustion research experiments. The contractor will be required to develop models concerning

single droplet trajectories in combustor flow-fields, and concerning the NO<sub>x</sub> chemical kinetics in reburning. In addition, the contractor will conduct a research program to determine the mechanisms governing the composition and size distribution of combustion-generated fine particulate matter. The contractor will also perform theoretical modeling, and may be required to perform bench-scale experimentation, related to a slagging precombustion chamber coupled with ash removal. For further information on Solicitation DU-85-A106, contact G. L. Farmer (NCCM-W), EPA, Contracts Management Division (MD-33), Office of Administration, Research Triangle Park, NC 27711, (919) 541-3104.

#### **NEW FORD FOUNDATION INITIATIVE**

The Ford Foundation announced recently that it will award \$3 million over the next three years for projects to reexamine social welfare policy in the United States under a broad initiative aimed at generating new ways to provide essential social insurance and services. Ford wants research that will take into account changes in the economy, the family, work and the nation's age profile and attempt to answer basic policy questions: What programs are most needed; how much will they cost and how to pay for them. Proposals may be submitted at any time. For further information, contact Charles Hamilton, Ford Foundation, 320 East 43rd Street, New York, NY 10017, (212) 573-5056, or call ORA at 376-7353.

#### **AARP ANDRUS FOUNDATION GRANTS IN FIELD OF AGING**

The AARP Andrus Foundation supports university research projects in gerontology -- behavioral, social, health sciences, policy, planning and practice. Applications for the semi-annual funding period starting January 1, 1986 are due on June 3, 1985. Criteria and guidelines for applications are available from ORA by calling 376-7353.

#### **HEWLETT FOUNDATION**

The Hewlett Foundation funds social science research on population issues-- domestic and international--as well as research on family planning, including evaluations of family planning education programs and studies of alternative programs to prevent adolescent pregnancy. About half its funds in the population field go to organizations involved in training and policy research. It also supports organizations that provide educational materials and conduct evaluations of direct service programs. It does *not* fund contraceptive or biomedical research. Applications from institutions are accepted year-round. For further information, contact the Hewlett Foundation, 525 Middlefield Road, Suite 200, Menlo Park, CA 24025, (415) 329-1070.

#### **CENTER FOR FIELD RESEARCH AND EARTHWATCH FUNDING**

The Center for Field Research exists to strengthen and refine public understanding of the world's natural and human resources, and of their interdependence, through participant funding of significant scholarship in the sciences and humanities. The Center solicits applications from scholars and institutions for "field research" projects that include the use of volunteer teams. Projects approved for funding by the Center are then recommended to EARTHWATCH, a private volunteer research corps, for support. Projects in "pure" biological and social science research are their main emphasis. However, they

have recently begun to explore the feasibility of EARTHWATCH support for field research in applied sciences, particularly those projects relating to food and water scarcities, nutrition and natural resource management. They are also strengthening their support of field research in Latin America. For further information regarding this program, contact ORA at 376-7353.

## FEDERAL BIOTECHNOLOGY FUNDING SOURCES

ORA has obtained a copy of *Federal Biotechnology Funding Sources*. The purpose of this resource book is to assist researchers and administrators in securing federal funding in biotechnology by identifying programs and activities which fund extramural research and development and key individuals to contact regarding a particular program. The book is available for faculty use in the ORA library.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORA CONTACT NUMBER FOR FEDERAL DEADLINE/PROGRAM INFORMATION IS 373-5925.

## FEDERAL

### NATIONAL INSTITUTES OF HEALTH

Fogarty International Center, Eastern European Scientist Exchange Program	Open	
Fogarty International Center, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
Fogarty, Biomedical Research Fellowship Opportunities Abroad (Alexander Von Humboldt)	June	1
Fogarty, Senior International Fellowship Program	June	1
NCI, The Role of Human Papillomaviruses in the Etiology of Cervical Cancer	June	1
NCI, RFA-84-CA-08, Cancer Control Research Units (REVISED DATES, Letter of intent by 2/4)	June	11
NCI/NIAID/NIAADDK/NICHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases: Research Grants	July	1
NCI, Biochemistry and Pharmacology Program	July	1
NCI, Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	July	1
NCI, Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	July	1



NCI, Prediction of Tumor Response to Radiation Therapy	July	1
NCI, Medical Imaging for Diagnosis and Treatment of Cancer	July	1
NCI, Research on Biological Response Modifiers	July	1
NEI, Instrumentation Projects	May	1
NEI, RFAEY 85-01, Instrumentation, Alteration and Renovation and Construction	May	15
NEI, Small Grants Program for Pilot Projects	June	1
NEI/NIA, 85-EY-02, Profile of Visual Function in Low Vision Patients (Letter of intent 5/1/85)	June	14
NEI, Causes and Prevention of Myopia	July	1
NEI, Research on Basic Mechanisms of Retinal Phototoxicity	July	1
NHLBI, RFA-85-HL-12-L, Airway Smooth Muscle: Biology and Pharmacology	April	15
NHLBI, Research Career Development Award: Basic Science Related to the Respiratory System	June	1
NHLBI, Career Development Programs for Physicians in Cardiac and Vascular Research in Cerebrovascular Disease:		
Physician Scientist Award	June	1
Clinical Investigator Award	June	1
NHLBI, Demonstration and Education Research Related to Pulmonary Disease	July	1
NHLBI, Arrhythmia Detection and Discrimination from Electrograms	July	1
NHLBI, Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young	July	1
NHLBI, Minimally Invasive Measurement of Blood Pressure in the Heart and Central Arteries	July	1
NHLBI, Development of Genetic Hypertensive Animal Models	July	1
NHLBI, Blood Transfusion and Cytomegalovirus Infection	July	1
NHLBI, Surfactants for Perflurochemicals	July	1
NHLBI, Minority Summer Program in Pulmonary Research	August	1
NHLBI, RFA-85-HL-01-1-L, Specialized Centers of Research Concerned with Respiratory Disorders of Neonates and Children/National Research and Demonstration Centers for Respiratory Disorders of Neonates and Children	September	2
NHLBI, RFA-85-HL-10-H, Specialized Centers of Research in Arteriosclerosis (SCOR-A) and National Research and Demonstration Centers in Arteriosclerosis (NRDC-A)	September	16
NHLBI, RFA-85-HL-02-L, Specialized Centers of Research and National Research and Demonstration Centers: Chronic Diseases of the Airways/Occupational and Immunological Lung Diseases/Pulmonary Vascular Diseases	December	2
NIA, Exercise Physiology	June	1
NIA, The Oldest Old:		
Program Project Grants	June	1
Individual Postdoctoral Fellowships	June	1
Research Grants	July	1
New Investigator Awards	July	1
NIA/NIAID/NIADDK/NICHHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	June	1
NIA, Small Grant Awards for Pilot Projects	June	1
NIA, Complementary Training Awards for Research on Aging	June	1
NIA, Health Behaviors and Aging: Behavioral Geriatrics Research	June	1
NIA, Geriatric Leadership Academic Award	July	1

NIA, Social Environments Influencing Health and Functioning in Later Years	July	1
NIADDK, DDEMD, Scientific Instrumentation Grants	April	15
NIADDK/NICHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	July	1
NIADDK/NIA/NIAID/NICHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	July	1
NIADDK, Osteogenesis Imperfecta	July	1
NIADDK, Arthritis, Musculoskeletal and Skin Disease Research	July	1
NIADDK, Digestive Diseases and Nutrition Research	July	1
NIAID, Minority Research Enhancement Program	Open	
NIAID, Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
Career Development	June	1
Physician Scientist	June	1
Clinical Investigator	June	1
Postdoctoral Fellow	June	1
New Grants	July	1
New Investigator	July	1
NIAID, RFA-85-AI-01, Program Projects on Mechanisms of Immunologic Diseases	June	15
NIAID, Biology of the Immune System (Letter of intent by 4/1/85)	June	15
NIAID, Human Papilloma Viruses and Genital Warts	July	1
NIAID, Mechanisms of Action of the Drug Cyclosporine	July	1
NIAID, Centers: Asthma and Allergic Disease/Immuno- dermatologic Diseases (Letter of intent by 7/15/85)	October	15
NIAID, Centers for Interdisciplinary Research on Immunologic Diseases (Letter of intent by 7/15/85)	October	15
NICHD, 85-HD-04 Design, Synthesis and Testing of Non- Steroidal Male Contraceptives (Letter of intent by 4/1/85)	June	14
NICHD, 85-HD-07, Cooperative Multicenter Network of Maternal-Fetal Medicine Units	June	14
NICHD, 85-HD-06, Cooperative Multicenter Network of Neonatal Intensive Care Unit (NICUS)	June	14
NICHD, Physical Activity in Pregnancy	July	1
NICHD, Physiology of Lactation and Hypertension in Pregnancy	July	1
NICHD, 85-HD-05, Bioeffects of Ultrasound	July	15
NICHD, 85-HD-08, Injury and Injury Prevention in Children (Letter of intent 5/15/85)	July	15
NIDR, Small Grant Program	June	1
NIDR, Dentist Scientist Award	June	1
NIDR, Orofacial Pain Research Centers	June	15
NIDR, Osteogenesis Imperfecta	July	1
NIEHS, Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	June	1
NIEHS, Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	June	1
NIEHS, Specialized Centers of Research in Genetic Toxicology	June	1
NIEHS/NIADDK, Effect of Environmental Agents on the Endocrine System	July	1
NIGM, Cellular and Molecular Basis of Disease Research	July	1
NIGM, Physiology and Biomedical Engineering	July	1
NIGM, Genetics Research	July	1
NIGM, Pharmacological Sciences	July	1

NIH, NMR Resources, Biotechnology Resources Program	June	1
NIH, Research Grants, Renewals	June	1
NIH, Research Career Development Awards	June	1
NIH, Individual Postdoctoral Fellowships	June	1
NIH, Institutional Training Programs	June	1
NIH, Research Grants, New	July	1
NIH, New Investigator Awards	July	1
NINCDS, Clinical Investigator Development Award	June	1
NINCDS, Speech and/or Language Disorders in Children Individual Postdoctoral Fellowships	June	1
NINCDS/NIMH, Autism and Related Behavioral Disorders	July	1
NINCDS, Research Grants on Status Epilepticus	July	1
NINCDS, Research Grants on Basic Mechanisms of the Epilepsies	July	1
NIOSH, Research and Demonstrations Relating to Occupational Safety and Health:		
Special Emphasis Research Career Award	June	1
Small Grant Program	June	1
Research Grants	July	1
Demonstration Grants	July	1
Program Project Grants	July	1
NLM, Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	July	1
NLM, Investigator-Initiated Research Grants/New Investigator Research Awards	July	1

#### NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award <u>for each</u> : School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
NHLBI, Research Training and Development Area:		
National Research Service Award Programs		
Institutional Research Training Grant Award	June	1
Individual Postdoctoral Fellowship Award	June	1
Senior Research Fellowship Award	June	1
Short-Term Research Training: Students in Health Professional Schools	May	1
Research Career Development Programs		
Research Career Development Award	June	1
Clinical Investigator Award	June	1
Physician Scientist Award	June	1
Special Emphasis Research Career Award: Diabetes Mellitus	June	1
Development-Related Program	July	1
Career Development Programs for Physicians in Cardiac and Vascular Research in Cerebrovascular Disease	June	1
NHLBI/NIAMDD, SERCA: Diabetes Mellitus-Cardiovascular, Metabolic and Endocrinologic Aspects	June	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NICHHD/NIAMDD, SERCA: Diabetes-Mellitus-Obstetrical, Perinatal, and Pediatric Aspects	June	1

## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA/NIH/NCHSR, Research on Digestive Diseases:		
Research Career Development	June	1
Research Grants	July	1
ADAMHA, Research Grants, Renewals	June	1
ADAMHA, Individual Postdoctoral Fellowships	June	1
ADAMHA, Institutional Training Grants, NRSA	June	1
ADAMHA, Research Scientist Development/Research Scientist Award	June	1
ADAMHA, Research Grants, New	July	1
NIA, Studies on Exercise Physiology and Aging	July	1
NIAAA/NIDA/NIMH, Institutional NRSA Training	June	1
NIDA/NIAAA, Community Prevention Research in Alcohol and Drug Abuse	July	1
NIDA, Drug Abuse Prevention Research	July	1
NIMH, MH-84-01, Research Support Programs: Neurosciences, Behavioral Sciences, Epidemiologic, Clinical Assessment and Etiological, Treatment, Prevention and Service Research		
Clinical Research Center Applications	June	1
New and Competing Renewal Program Projects	June	1
Competing Renewals	June	1
Supplemental Research Grants	June	1
Research Scientist Development Applications	June	1
New Regular Research Grants	July	1
NIMH, Support for Child and Adolescent Mental Health		
Research and Research Training:		
Individual Postdoctoral Training	June	1
Institutional Research Training	June	1
Research Grants	July	1
NIMH, Child and Adolescent Mental Health Research and Research Training:		
Institutional Training Grants	June	1
Research Grants	July	1
NIMH, Geriatric Mental Health Award	July	1
NIMH, Clinical Investigator Award	July	1
NIMH, Research Grants Program	July	1
NIMH, Physician Scientist Award	July	1
NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders	July	1
NIMH/NIDA, Research on Obesity	July	1
NIMH/NINCDS, Autism and Related Behavioral Disorders	July	1
NIMH, Clinical Research Centers on Psychopathology of the Elderly	July	1
NIMH, Research on Mental Illness in Nursing Homes	July	1

## CENTERS FOR DISEASE CONTROL

Research and Demonstrations Relating to Occupational Safety and Health -	July	1
(SERCA Grants and Small Grants)	June	1
Long-term Training Project Grants in Occupational Safety and Health	June	1

## DEPARTMENT OF EDUCATION

NIHR-Special Projects and Demonstrations for Spinal Cord Injuries	April	15
Handicapped American Indian Vocational Rehabilitation Service Projects	April	29
Discretionary Grant Programs		
Planning Projects to Develop Teacher Incentive Structures	April	15
Rehabilitation Long-Term Training Program	April	29
Rehabilitation Continuing Education Program	April	29
State Vocational Rehabilitation Unit In-Service Training Program	April	29
Handicapped Migratory Agricultural and Seasonal Farm Worker Vocational Rehabilitation Service Projects		
New	May	1
Initiating Special Recreation Programs for Handicapped Individuals	May	6
Handicapped Children's Early Education Program - Early Childhood State Plan (non-competing continuation)	May	17
Research in Education of the Handicapped - Field Initiated Research Projects (non-competing continuation)	June	21
Training Personnel for the Education of the Handicapped Special Projects	May	1
National Institute of Handicapped Research		
Office of Special Education and Rehabilitative Services Innovation Grants	July	1

## FOOD AND DRUG ADMINISTRATION

Research Grants, Renewals	June	1
Studies on Comparative Drug Metabolism in Fish and Other Aquatic Animals Used for Food (Letter of intent 4/25/85)	June	10

## HEALTH CARE FINANCING ADMINISTRATION

Medicare and Medicaid Programs, Health Care Financing Research and Demonstration Cooperative Agreements and Grants (Waiver-only and discretionary funds awards)	April	15
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## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Faculty Development in General Internal Medicine and/or General Pediatrics	April	12
Maternal and Child Health (MCH) Projects		
Training		
Continuations	June	14
Genetic Disease Testing, Counseling and Information	May	1
Hemophilia Diagnostic and Treatment Centers	May	1
Special Initiative Grants for Area Health Education Centers	April	12
Home Health Services and Training	April	30
Geriatric Education Centers (Comments due 4/8/85)	May	20
Advanced Nurse Training Grants	July	1
Nurse Practitioner Training Grants	July	1
Nursing Special Project Grants	July	1

## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
Research on Digestive Diseases	July	1
NCHSR Extramural Research	July	1

## NATIONAL INSTITUTE OF EDUCATION

Planning Grants and Institutional Grants for Educational Research and Development Centers: Institutional Grants	June	6
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## OFFICE OF ADOLESCENT PREGNANCY PROGRAMS

Grants for Research on Adolescent Family Life	April	15
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## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Computer Research: Equipment Grants	May	1
U.S.-France Cooperative Science (NSF 83-73). Proposals for cooperative research projects and joint workshops/seminars with requested effective dates in calendar year 1986. Contact the Division of International Programs (202) 357-7554	May	1
U.S.-Argentina Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Brazil Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Mexico Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1

U.S.-Venezuela Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S.-Latin America and Caribbean Cooperative Science (NSF 80-52). Cooperative research (partial support), bilateral workshops and scientific visits. Foreign collaborator must submit parallel proposal to counterpart agency. Contact Ms. Christine French, Division of International Programs (202) 357-9563	May	1
U.S. Antarctic Research Program	June	1
Advanced Scientific Computing Programs	Open	
U.S.-Japan Cooperative Science (NSF 81-58). Proposals for cooperative research and joint seminar activities are accepted in May each year; proposals for long-term visits (6-12 months) are accepted throughout the year. Contact the Division of International Programs (202) 357-9558	June	1
U.S.-Italy Cooperative Science (NSF 83-73). Proposals for cooperative research projects, joint seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	June	1
U.S.-Switzerland Cooperative Science (NSF 83-73). Proposals for joint research, seminars and long-term research visits. Contact the Division of International Programs (202) 357-7554	June	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	June	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	June	1
U.S.-Korea Cooperative Science (NSF 83-50). Proposals for long-term visits and cooperative research only. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	July	1
U.S.-East Asia Cooperative Science (NSF 83-50). Philippine component only. Proposals for long-term visits, cooperative research, seminars and workshops. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	July	1
Presidential Young Investigators Awards	July	1
Small Business Innovation Research. Contact Mr. Roland Tibbetts or Mr. Ritchie Coryell, Division of Industrial Science and Technological Innovation (202) 357-7527	July	15
VLSI (Very Large Scale Integration) Fast Turnaround Fabrication Service for Universities (NSF 83-43). Contact Dr. Andrew Molnar, Directorate for Science and Engineering Education (202) 357-7539	August	1
Ethics and Values in Science and Technology (NSF 83-62). Formal proposals. Contact Dr. Rachelle Hollander, Division of Research Initiation and Improvement (202) 357-7552	August	1

Special Research Initiation Awards for New Investigators in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572	August	7
Teacher Enhancement and Informal Science Education		
Presidential Awards for Excellence in Science and Mathematics Teaching	Open	
Informal Science Education	August	1
Science and Mathematics Education Networks	August	1
Leadership Activities for Precollege Teachers	August	15
Local and Regional Teacher Development	August	15
U.S.-United Kingdom Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September	1
U.S.-Austria Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September	15
U.S.-Federal Republic of Germany Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September	15
Cooperative Science Activities with Denmark, the Netherlands, and Norway (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September	15
U.S.-Finland Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September	15
U.S.-Sweden Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September	15
U.S.-Spain Cooperative Program in Basic Sciences (NSF 84-10). Proposals for cooperative research, joint seminars, exchange of scientists, and short term visits. Contact the Division of International Programs (202) 357-7554	September	15
U.S.-India Exchange of Scientists (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September	15
Coordinated Experimental Research (NSF 83-60). Limited to Ph.D.-granting institutions with research programs in computer science and engineering. Contact Dr. W. Richards Adrion, Division of Computer Research (202) 357-7375	September	16



U.S.-Australia Cooperative Science (NSF 81-49, as revised Jan. 1982). For seminars, cooperative research projects in which reciprocal (exchange) visits are proposed, and visits by Australians to the United States (i.e. no cost to NSF) only, for requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October	1
U.S.-New Zealand Cooperative Science (NSF 81-50). Proposals for projects with requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October	1
NATO Advanced Study Institute Travel Awards	November	1
NATO Postdoctoral Fellowships in Science	November	1

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Ethics and Values in Sciences and Technology (NSF 83-62). Preliminary Proposals. Contact Dr. Rachele Hollander, Division of Research Initiation and Improvement (202) 357-7552	May	1
U.S.-Eastern European Cooperative Science (NSF 81-27). Bulgaria, Hungary, and Romania: Contact Ms. Deborah Wince (202) 357-9516. Czechoslovakia and German Democratic Republic: Contact Dr. Gerson Sher, Division of International Programs (202) 357-7494	May	1
Doctoral Dissertation Research in Biotic Systems and Resources (NSF 83-71). Contact Dr. James Edwards. Division of Biotic Systems and Resources (202) 357-9588	May	1
Climate Dynamics. Contact Dr. Thomas Crowley, Division of Atmospheric Sciences (202) 357-9892	May	1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	June	1
Ocean Drilling Program, U.S. Science. Contact Ms. Sandra Toye, Division of Ocean Sciences (202) 357-9849	June	1
U.S. Antarctic Research (NSF 82-34). Funding to support field work in Antarctica during the 1986/87 austral summer and 1987 winter). Contact Mr. Guy Guthridge, Division of Polar Programs (202) 357-7766	June	1
Metabolic Biology (NSF 83-96). Contact Dr. William van B. Robertson or Ms. Carter Kimsey, Division of Molecular Biosciences (202) 357-7987	June	3
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	June	14
Ecosystem Studies. Contact Dr. James Gosz, Division of Biotic Systems and Resources (202) 357-9596	June	14
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	June	14
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	June	14
Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	June	30
Biochemistry (NSF 83-96). Contact Dr. Arnold Revzin or Ms. Estella Engel, Division of Molecular Biosciences (202) 357-7945	July	1

Biophysics (NSF 83-96). Contact Dr. Arthur Kowalsky or Ms. Brenda Flam, Division of Molecular Biosciences (202) 357-7777	July	1
Cell Biology (NSF 83-96). Contact Dr. Gertrude Kasbekar, Division of Cellular Biosciences (202) 357-7474	July	1
Cellular Physiology (NSF 83-96). Contact Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (202) 357-7377	July	1
Developmental Biology (NSF 83-96). Contact Dr. Donald Fosket or Dr. Jane Peterson, Division of Cellular Biosciences (202) 357-0112	July	1
Eukaryotic Genetics (NSF 83-96). Contact Dr. DeLill Nasser, Division of Cellular Biosciences (202) 357-0112	July	1
Regulatory Biology (NSF 83-96). Contact Dr. Elvira Doman, Division of Cellular Biosciences (202) 357-0112	July	1
Molecular and Cellular Neurobiology (NSF 84-9). Contact Dr. Joel Colton, Division of Behavioral and Neural Sciences (202) 357-7471	July	1
Prokaryotic Genetics (NSF 83-96). Contact Dr. Philip Harriman or Dr. Rolf Benzinger, Division of Molecular Biosciences (202) 357-9687	July	1
Psychobiology (NSF 84-9). Contact Dr. Fred Stollnitz, Division of Behavioral and Neural Sciences (202) 357-7949	July	1
Social and Developmental Psychology (NSF 84-9). Contact Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (202) 357-9485	July	1
Earth Sciences: Stratigraphy and Paleontology; Surficial Processes; Crustal Structure and Tectonics; Seismology; Experimental and Theoretical Geophysics; Petrogenesis and Mineral Resources; Volcanology and Mantle Geochemistry; Experimental and Theoretical Geochemistry; Continental Lithosphere; and Instrumentation and Facilities. For Earth Sciences Research Equipment (NSF 83-28). Contact Dr. James Hays, Division of Earth Sciences (202) 357-7958	July	1
Ship Operations Support. Instructions for preparation of proposals requesting support for: Ship Operations Support (NSF 81-18). Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	July	1
Shipboard Technicians. Instructions for preparation of proposals requesting support for: Shipboard Technicians (NSF 81-23). Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	July	1
Climate Dynamics. Contact Dr. Thomas Crowley, Division of Atmospheric Sciences (202) 357-9892	August	1
Developmental Neurosciences (NSF 84-9). Contact Dr. Jean Lauder, Division of Behavioral and Neural Sciences (202) 357-7042	August	1
Integrative Neural Systems (NSF 84-9). Contact Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (202) 357-7040	August	1
Linguistics (NSF 84-9). Contact Dr. Paul Chapin, Division of Behavioral and Neural Sciences (202) 357-7696	August	1
Memory and Cognitive Processes (NSF 84-9). Contact Dr. Joseph Young, Division of Behavioral and Neural Sciences (202) 357-9898	August	1

Sensory Physiology and Perception (NSF 84-9). Contact Dr. James Larimer, Division of Behavioral and Neural Sciences (202) 357-7428	August	1
Decision and Management Science. Contact Dr. Trudi Miller, Division of Social and Economic Science (202) 357-7569	September	1
Economics. Contact Dr. James Blackman, Dr. Daniel Newlon, Dr. Lynn Pollnow, or Dr. James Slaugh, Jr., Division of Social and Economic Science (202) 357-9675	September	1
Geography and Regional Science. Contact Dr. Ronald Abler, Division of Social and Economic Science (202) 357-7441	September	1
History and Philosophy of Science. Contact Dr. Ronald Overmann or Ms. Bonney Sheahan, Division of Social and Economic Science (202) 357-9677	September	1
Law and Social Sciences. Contact Dr. Felice Levine or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-9567	September	1
Oceanographic Instrumentation. Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	September	1
Shipboard Scientific Support Equipment. Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	September	1
Arctic Research (NSF 82-33). For arctic summer beginning March 1, 1986. Contact Mr. Guy Guthridge, Division of Polar Programs (202) 357-7766	September	1
Ocean Sciences Instrumentation Development. Request the brochure "Proposals for Ocean Sciences Instrumentation Development," from Mr. H. Lawrence Clark, Division of Ocean Sciences (202) 357-7837	September	1
Measurement Methods and Data Improvement. Contact Dr. Murray Aborn or Dr. Sara Nerlove, Division of Social and Economic Science (202) 357-7913	September	1
Political Science. Contact Dr. Frank Scioli, Jr., Division of Social and Economic Science (202) 357-7534	September	1
Regulation and Policy Analysis. Contact Dr. Laurence Rosenberg, Division of Social and Economic Science (202) 357-7417	September	1
Sociology. Contact Dr. Joanne Miller, Dr. Thomas Guterbock, or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-7802	September	1
Sub-Saharan Africa Cooperative Science (NSF 84-26). Contact Mr. Robert Bell, Division of International Programs (202) 357-9550	September	1
Science in Developing Countries. Contact Sub-Saharan Africa: Mr. Robert Bell (202) 357-9550; North Africa and Turkey: Mr. Francis Field (202) 357-9402; South and West Asia: Dr. Osman Shinaishin (202) 357-9402; East Asia: Dr. Gordon Hiebert (202) 357-9537; and Latin America and Caribbean: Ms. Christine French, Division of International Programs (202) 357-9563	September	1
U.S.-East Asia Cooperative Science (NSF 83-50). Indonesia, Malaysia, Singapore, Thailand. Contact Dr. Gordon Hiebert, Division of International Programs (202) 357-9537	September	1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	September	30

Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	September 30
Materials Development and Research	
Instructional Materials Development	October 1
Materials and Methods for Teacher Preparation	October 1
Applications of Advanced Technologies	October 1
Research in Teaching and Learning	October 1
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	October 1
Doctoral Dissertation Research in Biotic Systems and Resources. Contact Dr. James Edwards, Division of Biotic Systems and Resources (202) 357-9588	October 1
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	October 1
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	October 1
Productivity Improvement Research (NSF 84-16). Contact Dr. J. D. Eveland, Dr. William Hetzner, or Dr. E. C. Johnson, Division of Industrial Science and Technological Innovation (202) 357-9804	October 1

\*NSF Proposals may be submitted for the following programs at any time of the year. It takes approximately six to nine months to process a proposal. Brochures indicated in parentheses may be ordered.

U.S.-Korea Cooperative Science (NSF 83-50). Short-term visits only. Contact Dr. Gerald Edwards (202) 357-9537	*
U.S.-East Asia Cooperative Science (NSF 83-50). Short-term visits only to the Philippines and Korea. Contact Dr. Gerald Edwards (202) 357-9537	*
U.S.-East Asia Cooperative Science (NSF 83-50). Excluding Philippines and Korea. Contact Dr. Gordon Hiebert (202) 357-9537	*
U.S.-India Cooperative Science (NSF 82-86). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402	*
U.S.-Pakistan Cooperative Science (NSF 80-49). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402	*
U.S.-China Cooperative Science (NSF 82-50). For information regarding field limitations contact Dr. Pierre Perrolle or Mr. Alexander DeAngelis (202) 357-7393	*
U.S.-Belgium Cooperative Science (NSF 83-73). Cooperative research projects, joint seminars (202) 357-7554	*
U.S.-Japan Cooperative Science (NSF 81-58). Proposals from U.S. investigators for long-term visits to spend from 6 to 12 months conducting research in Japan (202) 357-9558	*
U.S.-Japan Program for Cooperation in Photoconversion and Photosynthesis (NSF 83-11). Letter-proposals for visits up to two weeks in Japan to plan formal research in cooperation with Japanese investigators in the areas of photoconversion and photosynthesis (202) 357-9558	*

NSF-NATO Exchange for International Academic-Industrial Exchanges of U.S. Scientists (Double Jump). Postdoctoral program for the exchange of scientists from the academic and industrial communities of the U.S. and NATO member countries (202) 357-7554 \*

U.S.-New Zealand Cooperative Science (NSF 81-50). Letter-proposals for short-term visits (limited to air fare and up to three weeks' per diem) to develop cooperative research in physical oceanography, air/sea interaction, marine geology, geophysics or biology (marine productivity) (202) 357-9558 \*

Research in Undergraduate Institutions (NSF 83-79). Contact appropriate disciplinary program in NSF for more specific target dates and number of copies of proposals needed or contact Dr. Joseph Danek, Director of Special Projects, Division of Research Initiation and Improvement (202) 357-7456 \*

Minority Research Initiation (NSF 80-42). Contact Dr. Roosevelt Calbert (202) 357-7350 \*

Synthetic Inorganic and Organometallic Chemistry (NSF 83-57). Contact Dr. Oren Williams (202) 357-7499 \*

Synthetic Organic and Natural Products Chemistry (NSF 83-57). Contact Dr. John Showell (202) 357-7499 \*

Chemical Analysis (NSF 83-57). Contact Dr. Henry Blount, III (202) 357-7503 \*

Chemical Instrumentation (NSF 83-57). Contact Dr. John Hunt (202) 357-7960 \*

Structural Chemistry and Thermodynamics (NSF 83-57). Contact Dr. William Harris (202) 357-9826 \*

Chemical Physics (NSF 83-57). Contact Dr. William Cramer (202) 357-7951 \*

Chemical Dynamics (NSF 83-57). Contact Dr. Richard Holder (202) 357-7956 \*

Instrumentation for Materials Research (NSF 82-79). Contact Dr. William Oosterhuis (202) 357-7570 \*

National Facilities. Contact Dr. Dean Mitchell (202) 357-9791 \*

Materials Research Laboratory. Contact Dr. Adriaan de Graaf (202) 357-9791 \*

Materials Research Group. Contact Dr. W. Lance Haworth (202) 357-9791 \*

Atomic, Molecular, and Plasma Physics. Contact Dr. Rolf Sinclair (202) 357-7997 \*

Elementary Particle Physics. Contact Dr. David Berley (202) 357-9575 \*

Gravitational Physics. Contact Dr. Richard Isaacson (202) 357-7979 \*

Intermediate Energy Nuclear Physics. Contact Dr. Peter Riley (202) 357-7992 \*

Nuclear Physics. Contact Dr. William Rodney (202) 357-7992 \*

Theoretical Physics. Contact Dr. Boris Kayser (202) 357-7979 \*

Aeronomy. Contact Dr. Andrew Christensen (202) 357-7619 \*

Atmospheric Chemistry. Contact Dr. Jarvis Moyers (202) 357-9657 \*

Experimental Meteorology. Contact Dr. Richard Greenfield (202) 357-9887 \*

Global Atmospheric Research. Contact Dr. Jay Fein (202) 357-9887	*
Meteorology. Contact Dr. Ronald Taylor (202) 357-7624	*
Solar Terrestrial. Contact Dr. Dennis Peacock (202) 357-7618	*
Upper Atmospheric Facilities. Contact Dr. Richard Behnke (202) 357-7390	*
Astronomical Instrumentation and Development. Contact Dr. G. W. Van Citters, Jr. (202) 357-9793	*
Extragalactic Astronomy. Contact Dr. James Wright (202) 357-7639	*
Galactic Astronomy. Contact Dr. Kurt Weiler (202) 357-7620	*
Solar System Astronomy. Contact Dr. Kurt Weiler (202) 357-7620	*
Stars and Stellar Evolution. Contact Dr. Peter Pesch (202) 357-7622	*
Electromagnetic Spectrum. Contact Dr. Vernon Pankonin (202) 357-9696	*
Anthropology. Doctoral Dissertation Proposals. Contact Ms. Mary Greene, Division of Behavioral and Neural Sciences (202) 357-7804	*
Biological Research Resources. Contact Dr. James Tyler, Division of Biotic Systems and Resources (202) 357-7475	*
Industry/University Cooperative Research Projects (NSF 82-56). Contact Dr. Frederick Betz (202) 357-7785 or Mr. Alex Schwarzkopf (202) 357-7527, Division of Industrial Science and Technology Innovation.	*
Industry/University Cooperative Research Centers. Contact Mr. Robert Colton or Mr. Alex Schwarzkopf, Division of Industrial Science and Technological Innovation (202) 357-7527	*
Research in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572	*
Alternative Biological Resources (NSF 83-96). Contact Dr. H. Huang, Division of Molecular Biosciences (202) 357-9782	*
Mathematical Sciences. Programs for disciplinary research include Classical Analysis, Modern Analysis, Geometric Analysis, Topology and Foundations, Algebra and Number Theory, Applied Mathematics, and Statistics and Probability. Contact the appropriate disciplinary program for guidelines for the submission of proposals. Division of Mathematical Sciences (202) 357-9764	*

## COUNCIL FOR INTERNATIONAL EXCHANGE OF SCHOLARS

Indo-American Fellowship Program: Advanced Research in India, 1985-86	June	15
Fulbright Scholar Program: Australasia, India, Latin America, Caribbean	June	15

## DEPARTMENT OF DEFENSE

Office of Naval Research Strategic Defense Initiative	Open
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U.S. Air Force University Resident Research Program	Open	
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## DEPARTMENT OF JUSTICE

Office of Juvenile Justice and Delinquency Prevention Research and Program Development Programs	Open	
National Institute of Justice		
Victims of Crime	April	30
Crime Prevention	April	30
Crime Control Theory and Policy	May	15
Drugs, Alcohol and Crime	May	22
Unsolicited Research Program	June	1
Violent Criminal Behavior	June	5
Classification, Prediction, Methodology Development	June	12
Visiting Fellowships	November	15

## ENVIRONMENTAL PROTECTION AGENCY

Environmental Protection-Consolidation Research	Open	
Air Pollution Control Research Grants	Open	
Pesticides Control Research	Open	
Solid Waste Disposal Research	Open	
Water Pollution Control-Research, Development, and Demonstration Grants	Open	
Safe Drinking Water Research and Demonstration Toxic Substances Research	Open	

## INSTITUTE OF MUSEUM SERVICE

Conservation Project Support Program	May	1
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## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Langley Research Center, Research in Applied Computer Science	April	15
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## NATIONAL ENDOWMENT FOR THE ARTS

Dance Program	May	6
Design Arts	May	15
Inter-Arts (Intent 5/8/85)	June	7
Museum		
Special Projects	No Deadline	
Collections and Resources	July	1
Media Arts Program		
National Services to the Field	May	1
Radio Projects	July	20
AFI Independent Filmmaker Awards	September	14
Programming in the Arts	September	30
Opera-Musical Theater		
Special Projects-Concert Opera	May	23

Services to the Art	May	23
New American Works/Producer Grants	September	16
Special Projects-Other	September	16

## NATIONAL ENDOWMENT FOR THE HUMANITIES

Challenge Grants	May	1
Exemplary Projects in Undergraduate and Graduate Education	May	15
Bicentennial Institutes for Teachers	May	15
Fellowships for Independent Study and Research	June	1
Fellowships for College Teachers	June	1
Constitutional Fellowships (Bicentennial)	June	1
Research Resources Program: Access Projects	June	1
Research Resources Program: Preservation Project	June	1
Youth Projects (Preliminary April 20)	June	15

## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts Visiting Senior Fellowships and Associates (For 3/1/86-8/31/86)	September	21
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## NATIONAL HISTORICAL PUBLICATIONS AND RECORDS COMMISSION

Records Program	June	1
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## NATIONAL RESEARCH COUNCIL

Research Associateship Postdoctoral Awards	April	15
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## NATIONAL TRUST FOR HISTORIC PRESERVATION

Preservation Services Fund	June	1
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## SMITHSONIAN INSTITUTION

Smithsonian Fellowships: Faculty Research Fellowships	June	15
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## U.S. DEPARTMENT OF THE INTERIOR

U.S. Geological Survey, Announcement No. 105 Underwater Resources Research Act	April	15
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## U.S. INFORMATION AGENCY

Institute of International Education (IIE) Fulbright Grant	May	1
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## NONFEDERAL

AARP Andrus Foundation	June	3
American Associations of Museums; Assessment Program	April	26
American Cancer Society		
Regular Clinical Fellowship		
Final Application	July	1
American Chemical Society - Petroleum Research Fund		
Grants-in-Aid	No	Deadline
American Heart Association		
Established Investigatorships	July	1
Clinicial-Scientist Award	July	1
British-American Research Fellowships	July	1
Medical Student Research Fellowships	July	1
American Philosophical Society		
Grants-in-Aid	Various--Contact	ORA
Andrew W. Mellon Foundation	No	Deadline
Bosch Foundation Fellowship Program	No	Deadline
Brown Foundation	No	Deadline
Burroughs Wellcome Fund	May	1
Carnegie Corporation	No	Deadline
Center for Field Research (Earthwatch)		
Latin America Field Research Grants	No	Deadline
Camille and Henry Dreyfus Foundation		
Teacher-Scholar Grants	April	15
Newly Appointed Young Faculty in Chemistry	May	15
Special Grants in Chemistry, Biochemistry, and Chemical Engineering to Improve Human Relations	June	15
CIGNA Foundation		
Health Care Cost Containment Projects	June	29
Corporation for Public Broadcasting - Program Fund	April	15
Cystic Fibrosis Foundation		
Research Scholar Awards	September	1
New Investigator Research Grants	September	1
Research Grants	September	1
Research Fellowships	September	1
Clinical Fellowships	October	1
Student Traineeships	October	1
Damon Runyon Walter Winchell Cancer Fund		
Fellowship Grants	August	15
Human Cancer-Directed Fellowship Grants	August	15
Dana Foundation	No	Deadline
Deafness Research Foundation	July	15
Dirksen Center - Congressional Research Grants	May	31
Distilled Spirits Council; Grants-in-Aid	May	1
Dr. Scholl Foundation	May	15
Easter Seal Research Foundation	August	1
Edna McConnell Clark Foundation	No	Deadline
Epilepsy Foundation of America		
Clinical Research Fellowships	September	1
Research Grant Application	September	1
Exxon Education Foundation	No	Deadline
Ford Foundation	No	Deadline
Gas Research Foundation		
Telephone contact or letter of inquiry prior to submission of formal proposal	No	Deadline
General Motors Foundation	No	Deadline

German Marshall Fund		
Short-Term Travel Awards	No	Deadline
Hewlett Foundation	No	Deadline
International Foundation of Employee Benefit Plans		
Postdoctoral Grants-in-Aid	Open	
International Research and Exchanges Board (IREX)		
Travel Grants for Senior Scholars	April	30
Collaborative Activities and New Exchanges	April	30
The Robert Wood Johnson Foundation		
Minority Medical Faculty Development Program	April	30
Kaiser Family Foundation	No	Deadline
Kaltenborn Foundation		
Grants for Scholarly Studies in Communication	Open	
Kellogg Foundation		
Expanding Opportunities for Adult Continuing Education	Continuous	
Health Promotion and Disease Prevention Programs	Continuous	
Coordinated, Cost-Effective Health Service Programs	Continuous	
Improving Human Well Being through Productive Agriculture	Continuous	
Fostering Leadership Capacity	Continuous	
Kennan Institute for Advanced Russian Studies		
Short-Term Visiting Grants	June	1
Leukemia Society of America		
Scholar Program	September	1
Special Fellow Program	September	1
Fellow Program	September	1
Lilly Endowment	No	Deadline
MacArthur Foundation		
Peace Fellowships	July	31
March of Dimes Birth Defects Foundation		
Basil O'Connor Starter Research Grants	Continuous	
Reproductive Hazards in the Workplace	June	1
Clinical (Abstract by May 15)	August	1
Social and Behavioral Sciences (Abstract by May 1)	September	1
Basic Research	October	1
Mathers Charitable Foundation	Continuous	
Metropolitan Life Foundation	No	Deadline
Minnesota, Education - Adult Education Special Experimental		
Demonstration Projects and Teacher Training	June	1
Minnesota, Education - Availability of Federal Funds for		
Adult Education	June	1
Minnesota Humanities Commission		
Small Grant	No	Deadline
General Grants		
Application Draft	April	19
Final Application	May	10
Media Grants		
Application Draft	April	19
Final Application	May	10
Minnesota Medical Foundation	June	30
Minnesota, Rural Development Grants	May	1
Minnesota State Arts Board		
Music	April	30
Media Arts	May	3
Dance	May	6
Inter Arts	June	7
Expansion Arts	October	14
Visual Arts	November	1
Charles Stewart Mott Foundation (Letter of inquiry)	No	Deadline

Muscular Dystrophy Associaton		
Grants-in-Aid	June	30
Postdoctoral Fellowships (Request application 5/31)	June	30
National Geographic Society		
Grants-in-Aid	No	Deadline
National Multiple Sclerosis Society		
Research Grants	August	1
Nissan Presents Focus - Ninth Annual Film Awards	April	19
Pew Memorial Trust	Continuous	
Pfizer Scholars Program	July	25
Puritan Bennett Foundation (formerly Parker B. Frances Foundation)		
Fellowships in Pulmonary Research	September	15
Research Corporation		
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No	Deadline
Rockefeller Brothers Fund, Inc.	No	Deadline
Rockefeller Foundation		
Research on the Genetic Engineering of Rice	Open	
Gender Roles Program	September	15
Scripps-Howard Foundation		
College Grants	April	15
Special Grants	April	15
Sigma Xi; Grants-in-Aid of Research	May	1
Sloan Foundation	No	Deadline
Southeastern Poultry and Egg Association	No	Deadline
Spencer Foundation	May	1
Spencer Research Grants in Behavioral Sciences	May	1
Technicon Instruments Corporation		
Grants for Research in Biomedical and Industrial Instrumentation		
Pre-proposals	No	Deadline
Thrasher Research Fund		
Grants and Nutrition, Infectious Diseases, Health Promotion	No	Deadline
University Genetics Company (UGEN)	No	Deadline
Villers Foundation	No	Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

Office of Research Administration  
Administrative Services Center, 5th Floor  
1919 University Avenue  
University of Minnesota  
St. Paul, Minnesota 55104

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Mike  
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# ORADDC Newsletter

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## REORGANIZATION OF THE OFFICE OF RESEARCH AND TECHNOLOGY TRANSFER ADMINISTRATION

In order to more effectively serve the University community, the Office of Research and Technology Transfer Administration has recently undergone reorganization (see below). The office has been structured into three areas: Research Administration; Information Services; and Patents and Licensing. Research Administration is comprised of two sections: Contracts and Grants; and Accounting and Financial Management.

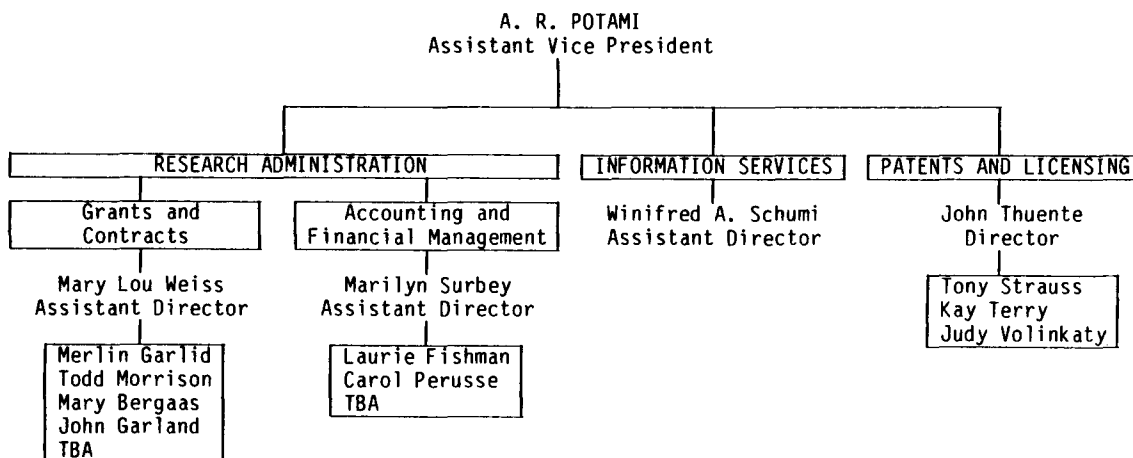
Mary Lou Weiss, Assistant Director, Research Contracts and Grants is responsible for all matters pertaining to proposal submission and grant/contract negotiation and administration. She is the principal person responsible for signing proposals, contracts, and other documents requiring an authorized signature. All grant administrators will report to her. A redistribution of the responsibility for accounts handled by these individuals will be announced when we have completed hiring for our vacant grant administrator positions.

Marilyn Surbey, Assistant Director, Research Administration Accounting and Financial Management, is responsible for the administration of financial reporting, cost accounting, effort certification and letters of credit. She has a dual role with Ms. Weiss in terms of policy and procedure matters relating to contracts and grants and is the alternate authorized signature.

Winifred A. Schumi, Assistant Director of Information Services, Office of Research and Technology Transfer Administration, is responsible for maintaining and providing information and analyses of sponsored program activity and administers grants from private foundation sponsors.

John Thuente, Director, Patents and Licensing, is responsible for all matters relating to patents and licensing and oversees the administration of grants and contracts from industrial sponsors.

### OFFICE OF RESEARCH AND TECHNOLOGY TRANSFER ADMINISTRATION



## AWARD PROCESSING DELAYS

In recent months there have been some problems in completing the necessary paperwork associated with awards for sponsored programs. While much of this can be attributed to some staffing and personnel changes, our failure to promptly recognize the problem and to devote sufficient attention to its resolution is also a contributing factor. We have now streamlined our procedures in processing awards which will result in timely establishment of accounts and proper administration of awards. If you have any questions or comments in this regard, we would be pleased to entertain them. We sincerely apologize for any inconvenience we have caused.

## NATIONAL SCIENCE FOUNDATION PRESIDENTIAL YOUNG INVESTIGATOR AWARDS

National Science Foundation Presidential Young Investigator Awards provide cooperative research support for the Nation's most outstanding and promising young science and engineering faculty. There are two types of nominations. Scientists and engineers who have received or are about to receive their doctoral degrees may be nominated for *faculty awards* by eligible institutions who have appointed or plan to appoint them to tenure track faculty positions. In addition, graduate students currently nearing their doctoral degrees, postdoctoral students, and other recent doctoral recipients without faculty affiliation may be nominated for *prefaculty awards* tenable at an appropriate eligible institution. Nominations for *faculty awards* originate from the departmental chairperson or analogous administrative officer of the sponsoring institution. Nominations for *prefaculty awards* originate from the departmental chairperson or analogous institutional officer of the academic department where the nominee's doctoral studies are being or were carried out. The nomination deadline is July 1, 1985. For more information, call Mary Bergaas at 373-2784.

## PATIENT FUNCTION IMPROVEMENT RESEARCH GRANTS

The Robert Wood Johnson Foundation plans to award up to \$150,000 each to approximately 20 projects designed to investigate the functional abilities of individuals affected by acute or chronic illness, disease or injury. The projects will be supported for up to three years, although pilot efforts that prove especially significant may warrant review by the foundation for expansion as larger demonstrations. The program is specifically designed to encourage small-scale research and development projects assessing or employing medical care strategies that enable patients to better conserve or regain their ability to carry out the important tasks of everyday living. Letters requesting application materials should be sent by May 1 to Phyllis Kane, Program Assistant, Research and Development Program to Improve Patient Functional Status, The Robert Wood Johnson Foundation, P.O. Box 2316, Princeton, NJ 08540. Completed applications must be mailed by June 28, 1985.

## OFFICE OF INTERNATIONAL PROGRAMS DEADLINE INFORMATION

The Office of International Programs (OIP) has information, including deadline dates, on major faculty/student fellowship and grant programs which support international activities. For further information on these fellowship and grant programs, please contact the OIP at 373-3793.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORA CONTACT NUMBER FOR FEDERAL DEADLINE/PROGRAM INFORMATION IS 373-5925.

### FEDERAL

#### NATIONAL INSTITUTES OF HEALTH

Fogarty International Center, Eastern European Scientist Exchange Program	Open	
Fogarty International Center, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
Fogarty, Biomedical Research Fellowship Opportunities Abroad (Alexander Von Humboldt)	June	1
Fogarty, Senior International Fellowship Program	June	1
NCI, Clinical Investigator Award	June	1
NCI, Cancer Education Program	June	1
NCI, The Role of Human Papillomaviruses in the Etiology of Cervical Cancer	June	1
NCI, RFA-84-CA-08, Cancer Control Research Units (REVISED DATES, Letter of intent by 2/4)	June	11
NCI/NIAID/NIAIDDK/NICHHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases: Research Grants	July	1
NCI, Biochemistry and Pharmacology Program	July	1
NCI, Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	July	1
NCI, Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	July	1
NCI, Prediction of Tumor Response to Radiation Therapy	July	1
NCI, Medical Imaging for Diagnosis and Treatment of Cancer	July	1
NCI, Research on Biological Response Modifiers	July	1
NEI, Instrumentation Projects	May	1
NEI, RFAEY 85-01, Instrumentation, Alteration and Renovation and Construction	May	15
NEI, Small Grants Program for Pilot Projects	June	1
NEI/NIA, 85-EY-02, Profile of Visual Function in Low Vision Patients (Letter of intent 5/1/85)	June	14
NEI, Causes and Prevention of Myopia	July	1
NEI, Research on Basic Mechanisms of Retinal Phototoxicity	July	1
NEI, Molecular Research in Strabismus, Amblyopia, and Visual Processing	July	1

NHLBI, Research Career Development Award: Basic Science Related to the Respiratory System	June	1
NHLBI, Career Development Programs for Physicians in Cardiac and Vascular Research in Cerebrovascular Disease:		
Physician Scientist Award	June	1
Clinical Investigator Award	June	1
NHLBI, Demonstration and Education Research Related to Pulmonary Disease	July	1
NHLBI, Arrhythmia Detection and Discrimination from Electrograms	July	1
NHLBI, Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young	July	1
NHLBI, Minimally Invasive Measurement of Blood Pressure in the Heart and Central Arteries	July	1
NHLBI, Development of Genetic Hypertensive Animal Models	July	1
NHLBI, Blood Transfusion and Cytomegalovirus Infection	July	1
NHLBI, Surfactants for Perflurochemicals	July	1
NHLBI, Research in Sickle Cell Disease: Pain Management in Sickle Cell Disease	July	1
NHLBI, Minority Summer Program in Pulmonary Research	August	1
NHLBI, RFA-85-HL-01-1-L, Specialized Centers of Research Concerned with Respiratory Disorders of Neonates and Children/National Research and Demonstration Centers for Respiratory Disorders of Neonates and Children	September	2
NHLBI, RFA-85-HL-10-H, Specialized Centers of Research in Arteriosclerosis (SCOR-A) and National Research and Demonstration Centers in Arteriosclerosis (NRDC-A)	September	16
NHLBI, Transfusion of Medicine Academic Award	October	15
NHLBI, RFA-85-HL-02-L, Specialized Centers of Research and National Research and Demonstration Centers: Chronic Diseases of the Airways/Occupational and Immunological Lung Diseases/Pulmonary Vascular Diseases	December	2
NIA, Aging and Visual Perception		
Postdoctoral Fellow	June	1
Program Project	June	1
Others	June	1
Research Project Grant	July	1
New Investigator Award	July	1
NIA, Exercise Physiology	June	1
NIA, The Oldest Old:		
Program Project Grants	June	1
Individual Postdoctoral Fellowships	June	1
Research Grants	July	1
New Investigator Awards	July	1
NIA/NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	June	1
NIA/NIAID/NIADDK/NICHHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	June	1
NIA, Small Grant Awards for Pilot Projects	June	1
NIA, Complementary Training Awards for Research on Aging	June	1
NIA, Health Behaviors and Aging: Behavioral Geriatrics Research	June	1
NIA, Molecular Biological and Genetic Basis of Aging	July	1
NIA, Geriatric Leadership Academic Award	July	1



NIA, Social Environments Influencing Health and Functioning in Later Years	July	1
NIADDK, Use of New Techniques to Study Metabolic Processes and Diseases	July	1
NIADDK, Dominantly Inherited Polycystic Kidney Disease	July	1
NIADDK/NICHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	July	1
NIADDK/NIA/NIAID/NICHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	July	1
NIADDK/NIDR Osteogenesis Imperfecta	July	1
NIADDK, Arthritis, Musculoskeletal and Skin Disease Research	July	1
NIADDK, Digestive Diseases and Nutrition Research	July	1
NIADDK/NIAID/NCI/NICHHD/NIGM, Liver Transplantation Research	July	1
NIAID, Minority Research Enhancement Program	Open	
NIAID, Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
Career Development	June	1
Physician Scientist	June	1
Clinical Investigator	June	1
Postdoctoral Fellow	June	1
New Grants	July	1
New Investigator	July	1
NIAID, RFA-85-AI-01, Program Projects on Mechanisms of Immunologic Diseases	June	15
NIAID, Biology of the Immune System (Letter of intent by 4/1/85)	June	15
NIAID, Human Papilloma Viruses and Genital Warts	July	1
NIAID, Mechanisms of Action of the Drug Cyclosporine	July	1
NIAID/NINCDS/NIA, Persistent Viral Infections - Alzheimer's Disease	July	1
NIAID, Centers: Asthma and Allergic Disease/Immunodermatologic Diseases (Letter of intent by 7/15/85)	October	15
NIAID, Centers for Interdisciplinary Research on Immunologic Diseases (Letter of intent by 7/15/85)	October	15
NICHD, 85-HD-04 Design, Synthesis and Testing of Non-Steroidal Male Contraceptives (Letter of intent by 4/1/85)	June	14
NICHD, 85-HD-07, Cooperative Multicenter Network of Maternal-Fetal Medicine Units	June	14
NICHD, 85-HD-06, Cooperative Multicenter Network of Neonatal Intensive Care Unit (NICUS)	June	14
NICHD, Physical Activity in Pregnancy	July	1
NICHD/NHLBI, Hypertension in Pregnancy	July	1
NICHD, Non-Invasive Assessment of Normality of Pre-Gastrula Embryos	July	15
NICHD, 85-HD-05, Bioeffects of Ultrasound	July	15
NICHD, 85-HD-08, Injury and Injury Prevention in Children (Letter of intent 5/15/85)	July	15
NIDR, Small Grant Program	June	1
NIDR, Dentist Scientist Award	June	1
NIDR, Orofacial Pain Research Centers	June	15
NIEHS, Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	June	1
NIEHS, Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	June	1
NIEHS, Specialized Centers of Research in Genetic Toxicology	June	1

NIEHS/NIADDD, Effect of Environmental Agents on the Endocrine System	July	1
NIGM, Cellular and Molecular Basis of Disease Research	July	1
NIGM, Physiology and Biomedical Engineering	July	1
NIGM, Genetics Research	July	1
NIGM, Pharmacological Sciences	July	1
NIH, NMR Resources, Biotechnology Resources Program	June	1
NIH, Research Grants, Renewals	June	1
NIH, Research Career Development Awards	June	1
NIH, Individual Postdoctoral Fellowships	June	1
NIH, Institutional Training Programs	June	1
NIH, Research Grants, New	July	1
NIH, New Investigator Awards	July	1
NINCDS, Clinical Investigator Development Award	June	1
NINCDS, Speech and/or Language Disorders in Children Individual Postdoctoral Fellowships	June	1
NINCDS, Research Grants Related to Basic Mechanisms in the Phakomatosis	July	1
NINCDS, Osteosclerosis and Early Progressive Deafness	July	1
NINCDS/NIMH, Autism and Related Behavioral Disorders	July	1
NINCDS, Research Grants on Status Epilepticus	July	1
NINCDS, Research Grants on Basic Mechanisms of the Epilepsies	July	1
NIOSH, Research and Demonstrations Relating to Occupational Safety and Health:		
Special Emphasis Research Career Award	June	1
Small Grant Program	June	1
Research Grants	July	1
Demonstration Grants	July	1
Program Project Grants	July	1
NLM, Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	July	1
NLM, Investigator-Initiated Research Grants/New Investigator Research Awards	July	1

#### NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award <u>for each</u> : School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
NHLBI, Research Training and Development Area:		
National Research Service Award Programs		
Institutional Research Training Grant Award	June	1
Individual Postdoctoral Fellowship Award	June	1
Senior Research Fellowship Award	June	1
Short-Term Research Training: Students in Health Professional Schools	May	1
Research Career Development Programs		
Research Career Development Award	June	1
Clinical Investigator Award	June	1
Physician Scientist Award	June	1
Special Emphasis Research Career Award: Diabetes Mellitus	June	1

Development-Related Program	July	1
Career Development Programs for Physicians in Cardiac and Vascular Research in Cerebrovascular Disease	June	1
NHLBI/NIAMDD, SERCA: Diabetes Mellitus-Cardiovascular, Metabolic and Endocrinologic Aspects	June	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NIADDK/DDEMD, Scientific Instrumentation Grants	April	15
NICHD/NIAMDD, SERCA: Diabetes-Mellitus-Obstetrical, Perinatal, and Pediatric Aspects	June	1
NIGMS, Shared Instrumentation Grants	February	15
NIH, National Research Service Awards for Short-term Training: Students in Health Professional Schools	February	1
NIH, Support of Scientific Meetings	June	1

## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA/NIH/NCHSR, Research on Digestive Diseases: Research Career Development	June	1
Research Grants	July	1
ADAMHA, Research Grants, Renewals	June	1
ADAMHA, Individual Postdoctoral Fellowships	June	1
ADAMHA, Institutional Training Grants, NRSA	June	1
ADAMHA, Research Scientist Development/Research Scientist Award	June	1
ADAMHA, Research Grants, New	July	1
NIA, Studies on Exercise Physiology and Aging	July	1
NIAAA/NIDA/NIMH, Institutional NRSA Training	June	1
NIDA/NIAAA, Community Prevention Research in Alcohol and Drug Abuse	July	1
NIDA, Drug Abuse Prevention Research	July	1
NIMH, MH-84-01, Research Support Programs: Neurosciences, Behavioral Sciences, Epidemiologic, Clinical Assessment and Etiological, Treatment, Prevention and Service Research		
Clinical Research Center Applications	June	1
New and Competing Renewal Program Projects	June	1
Competing Renewals	June	1
Supplemental Research Grants	June	1
Research Scientist Development Applications	June	1
New Regular Research Grants	July	1
NIMH, Support for Child and Adolescent Mental Health Research and Research Training:		
Individual Postdoctoral Training	June	1
Institutional Research Training	June	1
Research Grants	July	1
NIMH, Child and Adolescent Mental Health Research and Research Training:		
Institutional Training Grants	June	1
Research Grants	July	1
NIMH, Geriatric Mental Health Award	July	1
NIMH, Clinical Investigator Award	July	1
NIMH, Research Grants Program	July	1
NIMH, Physician Scientist Award	July	1

NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders	July	1
NIMH/NIDA, Research on Obesity	July	1
NIMH/NINCDS, Autism and Related Behavioral Disorders	July	1
NIMH, Clinical Research Centers on Psychopathology of the Elderly	July	1
NIMH, Research on Mental Illness in Nursing Homes	July	1

## CENTERS FOR DISEASE CONTROL

Research and Demonstrations Relating to Occupational Safety and Health - (SERCA Grants and Small Grants)	July	1
	June	1
Long-term Training Project Grants in Occupational Safety and Health	June	1

## DEPARTMENT OF EDUCATION

New Indian Fellowships	May	15
New Cooperative Agreements; Services for Deaf-Blind Children and Youth	May	28
Women's Educational Equity Act Program	May	28
Innovative Programs for Severely Handicapped Children	June	7
OSERS/ED; Rehabilitation Long-Term Training	June	17
Discretionary Grants Programs		
Handicapped Children's Early Education Program - Early Childhood State Plan (non-competing continuation)	May	17
Research in Education of the Handicapped - Field Initiated Research Projects (non-competing continuation)	June	21
National Institute of Handicapped Research		
Office of Special Education and Rehabilitative Services Innovation Grants	July	1

## FOOD AND DRUG ADMINISTRATION

Research Grants, Renewals	June	1
Studies on Comparative Drug Metabolism in Fish and Other Aquatic Animals Used for Food (Letter of intent 4/25/85)	June	10

## HEALTH CARE FINANCING ADMINISTRATION

Medicare and Medicaid Programs, Health Care Financing Research and Demonstration Cooperative Agreements and Grants (Waiver-only and discretionary funds awards)	November	4
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## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Geriatric Education Centers (Comments due 4/8/85)	May	20
National Research Service Awards - Institutional Grants	June	1
Maternal and Child Health (MCH) Projects		
Training		
Continuations	June	14
Research	August	1
Advanced Nurse Training Grants	July	1

Nurse Practitioner Training Grants	July	1
Nursing Special Project Grants	July	1
Competing Cooperative Agreements for Area Health Education Center Programs	December	14

## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
Research on Digestive Diseases	July	1
NCHSR Extramural Research	July	1

## NATIONAL INSTITUTE OF EDUCATION

Planning Grants and Institutional Grants for Educational Research and Development Centers: Institutional Grants	August	15
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## OFFICE OF HUMAN DEVELOPMENT SERVICES

Resource Centers for Child Welfare Services	June	17
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## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

U.S. Antarctic Research Program	June	1
Advanced Scientific Computing Programs	Open	
U.S.-Japan Cooperative Science (NSF 81-58). Proposals for cooperative research and joint seminar activities are accepted in May each year; proposals for long-term visits (6-12 months) are accepted throughout the year. Contact the Division of International Programs (202) 357-9558	June	1
U.S.-Italy Cooperative Science (NSF 83-73). Proposals for cooperative research projects, joint seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	June	1
U.S.-Switzerland Cooperative Science (NSF 83-73). Proposals for joint research, seminars and long-term research visits. Contact the Division of International Programs (202) 357-7554	June	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	June	1

U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	June	1
U.S.-Korea Cooperative Science (NSF 83-50). Proposals for long-term visits and cooperative research only. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	July	1
U.S.-East Asia Cooperative Science (NSF 83-50). Philippine component only. Proposals for long-term visits, cooperative research, seminars and workshops. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	July	1
Presidential Young Investigators Awards	July	1
Small Business Innovation Research. Contact Mr. Roland Tibbetts or Mr. Ritchie Coryell, Division of Industrial Science and Technological Innovation (202) 357-7527	July	15
VLSI (Very Large Scale Integration) Fast Turnaround Fabrication Service for Universities (NSF 83-43). Contact Dr. Andrew Molnar, Directorate for Science and Engineering Education (202) 357-7539	August	1
Ethics and Values in Science and Technology (NSF 83-62). Formal proposals. Contact Dr. Rachelle Hollander, Division of Research Initiation and Improvement (202) 357-7552	August	1
Special Research Initiation Awards for New Investigators in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572	August	7
Teacher Enhancement and Informal Science Education Presidential Awards for Excellence in Science and Mathematics Teaching	Open	
Informal Science Education	August	1
Science and Mathematics Education Networks	August	1
Leadership Activities for Precollege Teachers	August	15
Local and Regional Teacher Development	August	15
U.S.-United Kingdom Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September	1
U.S.-Austria Cooperative Science (NSF 83-73). Semi- annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September	15
U.S.-Federal Republic of Germany Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September	15

Cooperative Science Activities with Denmark, the Netherlands, and Norway (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September 15
U.S.-Finland Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-Sweden Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-Spain Cooperative Program in Basic Sciences (NSF 84-10). Proposals for cooperative research, joint seminars, exchange of scientists, and short term visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-India Exchange of Scientists (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September 15
Coordinated Experimental Research (NSF 83-60). Limited to Ph.D.-granting institutions with research programs in computer science and engineering. Contact Dr. W. Richards Adrion, Division of Computer Research (202) 357-7375	September 16
U.S.-Australia Cooperative Science (NSF 81-49, as revised Jan. 1982). For seminars, cooperative research projects in which reciprocal (exchange) visits are proposed, and visits by Australians to the United States (i.e. no cost to NSF) only, for requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October 1
U.S.-New Zealand Cooperative Science (NSF 81-50). Proposals for projects with requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October 1
NATO Advanced Study Institute Travel Awards	November 1
NATO Postdoctoral Fellowships in Science	November 1

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	June 1
Ocean Drilling Program, U.S. Science. Contact Ms. Sandra Toye, Division of Ocean Sciences (202) 357-9849	June 1
U.S. Antarctic Research (NSF 82-34). Funding to support field work in Antarctica during the 1986/87 austral summer and 1987 winter). Contact Mr. Guy Guthridge, Division of Polar Programs (202) 357-7766	June 1
Metabolic Biology (NSF 83-96). Contact Dr. William van B. Robertson or Ms. Carter Kimsey, Division of Molecular Biosciences (202) 357-7987	June 3
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	June 14

Ecosystem Studies. Contact Dr. James Gosz, Division of Biotic Systems and Resources (202) 357-9596	June	14
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	June	14
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	June	14
Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	June	30
Biochemistry (NSF 83-96). Contact Dr. Arnold Revzin or Ms. Estella Engel, Division of Molecular Biosciences (202) 357-7945	July	1
Biophysics (NSF 83-96). Contact Dr. Arthur Kowalsky or Ms. Brenda Flam, Division of Molecular Biosciences (202) 357-7777	July	1
Cell Biology (NSF 83-96). Contact Dr. Gertrude Kasbekar, Division of Cellular Biosciences (202) 357-7474	July	1
Cellular Physiology (NSF 83-96). Contact Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (202) 357-7377	July	1
Developmental Biology (NSF 83-96). Contact Dr. Donald Fosket or Dr. Jane Peterson, Division of Cellular Biosciences (202) 357-0112	July	1
Eukaryotic Genetics (NSF 83-96). Contact Dr. DeLill Nasser, Division of Cellular Biosciences (202) 357-0112	July	1
Regulatory Biology (NSF 83-96). Contact Dr. Elvira Doman, Division of Cellular Biosciences (202) 357-0112	July	1
Molecular and Cellular Neurobiology (NSF 84-9). Contact Dr. Joel Colton, Division of Behavioral and Neural Sciences (202) 357-7471	July	1
Prokaryotic Genetics (NSF 83-96). Contact Dr. Philip Harriman or Dr. Rolf Benzinger, Division of Molecular Biosciences (202) 357-9687	July	1
Psychobiology (NSF 84-9). Contact Dr. Fred Stollnitz, Division of Behavioral and Neural Sciences (202) 357-7949	July	1
Social and Developmental Psychology (NSF 84-9). Contact Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (202) 357-9485	July	1
Earth Sciences: Stratigraphy and Paleontology; Surficial Processes; Crustal Structure and Tectonics; Seismology; Experimental and Theoretical Geophysics; Petrogenesis and Mineral Resources; Volcanology and Mantle Geochemistry; Experimental and Theoretical Geochemistry; Continental Lithosphere; and Instrumentation and Facilities. For Earth Sciences Research Equipment (NSF 83-28). Contact Dr. James Hays, Division of Earth Sciences (202) 357-7958	July	1
Ship Operations Support. Instructions for preparation of proposals requesting support for: Ship Operations Support (NSF 81-18). Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	July	1
Shipboard Technicians. Instructions for preparation of proposals requesting support for: Shipboard Technicians (NSF 81-23). Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	July	1
Climate Dynamics. Contact Dr. Thomas Crowley, Division of Atmospheric Sciences (202) 357-9892	August	1



Developmental Neurosciences (NSF 84-9). Contact Dr. Jean Lauder, Division of Behavioral and Neural Sciences (202) 357-7042	August	1
Integrative Neural Systems (NSF 84-9). Contact Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (202) 357-7040	August	1
Linguistics (NSF 84-9). Contact Dr. Paul Chapin, Division of Behavioral and Neural Sciences (202) 357-7696	August	1
Memory and Cognitive Processes (NSF 84-9). Contact Dr. Joseph Young, Division of Behavioral and Neural Sciences (202) 357-9898	August	1
Sensory Physiology and Perception (NSF 84-9). Contact Dr. James Larimer, Division of Behavioral and Neural Sciences (202) 357-7428	August	1
Decision and Management Science. Contact Dr. Trudi Miller, Division of Social and Economic Science (202) 357-7569	September	1
Economics. Contact Dr. James Blackman, Dr. Daniel Newlon, Dr. Lynn Pollnow, or Dr. James Slaugh, Jr., Division of Social and Economic Science (202) 357-9675	September	1
Geography and Regional Science. Contact Dr. Ronald Abler, Division of Social and Economic Science (202) 357-7441	September	1
History and Philosophy of Science. Contact Dr. Ronald Overmann or Ms. Bonney Sheahan, Division of Social and Economic Science (202) 357-9677	September	1
Law and Social Sciences. Contact Dr. Felice Levine or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-9567	September	1
Oceanographic Instrumentation. Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	September	1
Shipboard Scientific Support Equipment. Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	September	1
Arctic Research (NSF 82-33). For arctic summer beginning March 1, 1986. Contact Mr. Guy Guthridge, Division of Polar Programs (202) 357-7766	September	1
Ocean Sciences Instrumentation Development. Request the brochure "Proposals for Ocean Sciences Instrumentation Development," from Mr. H. Lawrence Clark, Division of Ocean Sciences (202) 357-7837	September	1
Measurement Methods and Data Improvement. Contact Dr. Murray Aborn or Dr. Sara Nerlove, Division of Social and Economic Science (202) 357-7913	September	1
Political Science. Contact Dr. Frank Scioli, Jr., Division of Social and Economic Science (202) 357-7534	September	1
Regulation and Policy Analysis. Contact Dr. Laurence Rosenberg, Division of Social and Economic Science (202) 357-7417	September	1
Sociology. Contact Dr. Joanne Miller, Dr. Thomas Guterbock, or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-7802	September	1
Sub-Saharan Africa Cooperative Science (NSF 84-26). Contact Mr. Robert Bell, Division of International Programs (202) 357-9550	September	1

Science in Developing Countries. Contact Sub-Saharan Africa: Mr. Robert Bell (202) 357-9550; North Africa and Turkey: Mr. Francis Field (202) 357-9402; South and West Asia: Dr. Osman Shinaishin (202) 357-9402; East Asia: Dr. Gordon Hiebert (202) 357-9537; and Latin America and Caribbean: Ms. Christine French, Division of International Programs (202) 357-9563	September	1
U.S.-East Asia Cooperative Science (NSF 83-50). Indonesia, Malaysia, Singapore, Thailand. Contact Dr. Gordon Hiebert, Division of International Programs (202) 357-9537	September	1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	September	30
Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	September	30
Materials Development and Research		
Instructional Materials Development	October	1
Materials and Methods for Teacher Preparation	October	1
Applications of Advanced Technologies	October	1
Research in Teaching and Learning	October	1
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	October	1
Doctoral Dissertation Research in Biotic Systems and Resources. Contact Dr. James Edwards, Division of Biotic Systems and Resources (202) 357-9588	October	1
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	October	1
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	October	1
Productivity Improvement Research (NSF 84-16). Contact Dr. J. D. Eveland, Dr. William Hetzner, or Dr. E. C. Johnson, Division of Industrial Science and Technological Innovation (202) 357-9804	October	1

## ACTION

Senior Companion Program	June	3
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## COUNCIL FOR INTERNATIONAL EXCHANGE OF SCHOLARS

Indo-American Fellowship Program: Advanced Research in India, 1985-86	June	15
Fulbright Scholar Program: Australasia, India, Latin America, Caribbean	June	15

## DEPARTMENT OF DEFENSE

Office of Naval Research		
Strategic Defense Initiative	Open	
U.S. Air Force		
University Resident Research Program	Open	

## DEPARTMENT OF JUSTICE

Office of Juvenile Justice and Delinquency Prevention		
Research and Program Development Programs	Open	
National Institute of Justice		
Crime Control Theory and Policy	May	15
Drugs, Alcohol and Crime	May	22
Unsolicited Research Program	June	1
Violent Criminal Behavior	June	5
Classification, Prediction, Methodology Development	June	12
Visiting Fellowships	November	15

## ENVIRONMENTAL PROTECTION AGENCY

Environmental Protection-Consolidation Research	Open	
Air Pollution Control Research Grants	Open	
Pesticides Control Research	Open	
Solid Waste Disposal Research	Open	
Water Pollution Control-Research, Development, and Demonstration Grants	Open	
Safe Drinking Water Research and Demonstration Toxic Substances Research	Open	

## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Office of Commercial Development, Centers for the Commercial Development of Space	June	14
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## NATIONAL ENDOWMENT FOR THE ARTS

U.S./French Exchange Program: Deadline varies with Discipline	Various	
Design Arts	May	15
Inter-Arts (Intent 5/8/85)	June	7
Museum		
Special Projects	No Deadline	
Collections and Resources	July	1
Media Arts Program		
Radio Projects	July	20
AFI Independent Filmmaker Awards	September	14
Programming in the Arts	September	30
Opera-Musical Theater		
Special Projects-Concert Opera	May	23
Services to the Art	May	23
New American Works/Producer Grants	September	16
Special Projects-Other	September	16

## NATIONAL ENDOWMENT FOR THE HUMANITIES

Exemplary Projects in Undergraduate and Graduate Education	May	15
Bicentennial Institutes for Teachers	May	15
Fellowships for Independent Study and Research	June	1
Fellowships for College Teachers	June	1

Constitutional Fellowships (Bicentennial)	June	1
Research Resources Program: Access Projects	June	1
Research Resources Program: Preservation Project	June	1
Youth Projects (Preliminary April 20)	June	15

## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts Visiting Senior Fellowships and Associates (For 3/1/86-8/31/86)	September 21	
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## NATIONAL HISTORICAL PUBLICATIONS AND RECORDS COMMISSION

Records Program	June	1
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## NATIONAL TRUST FOR HISTORIC PRESERVATION

Preservation Services Fund	June	1
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## SMITHSONIAN INSTITUTION

Smithsonian Fellowships: Faculty Research Fellowships	June	15
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## U.S. INFORMATION AGENCY

1986-87 Fulbright Teacher Exchange Program	October	15
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## NONFEDERAL

AARP Andrus Foundation	June	3
American Cancer Society Regular Clinical Fellowship Final Application	July	1
American Chemical Society - Petroleum Research Fund Grants-in-Aid	No Deadline	
American Heart Association Established Investigatorships	July	1
Clinical-Scientist Award	July	1
British-American Research Fellowships	July	1
Medical Student Research Fellowships	July	1
American Council of Learned Societies	July	1
American Philosophical Society Grants-in-Aid	Various--Contact ORA	
Andrew W. Mellon Foundation	No Deadline	
Bosch Foundation Fellowship Program	No Deadline	
Brown Foundation	No Deadline	
Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)	No Deadline	
Carnegie Corporation	No Deadline	
Center for Field Research (Earthwatch) Latin America Field Research Grants	No Deadline	

Camille and Henry Dreyfus Foundation		
Newly Appointed Young Faculty in Chemistry	May	15
Special Grants in Chemistry, Biochemistry, and		
Chemical Engineering to Improve Human Relations	June	15
CIGNA Foundation		
Health Care Cost Containment Projects	June	29
Cystic Fibrosis Foundation		
Research Scholar Awards	September	1
New Investigator Research Grants	September	1
Research Grants	September	1
Research Fellowships	September	1
Clinical Fellowships	October	1
Student Traineeships	October	1
Damon Runyon Walter Winchell Cancer Fund		
Fellowship Grants	August	15
Human Cancer-Directed Fellowship Grants	August	15
Dana Foundation	No Deadline	
Deafness Research Foundation	July	15
Dirksen Center - Congressional Research Grants	May	31
Dr. Scholl Foundation	May	15
Easter Seal Research Foundation	August	1
Edna McConnell Clark Foundation	No Deadline	
Engineering Foundation (Pre-proposals)	No Deadline	
Epilepsy Foundation of America		
Clinical Research Fellowships	September	1
Research Grant Application	September	1
Exxon Education Foundation	No Deadline	
Ford Foundation	No Deadline	
Anna Fuller Fund	June	1
Gas Research Foundation		
Telephone contact or letter of inquiry prior to		
submission of formal proposal	No Deadline	
General Motors Foundation	No Deadline	
German Marshall Fund		
Short-Term Travel Awards	No Deadline	
Hewlett Foundation	No Deadline	
Houghton Mifflin Literary Fellowships	No Deadline	
International Foundation of Employee Benefit Plans		
Postdoctoral Grants-in-Aid	Open	
The Robert Wood Johnson Foundation		
Research and Development Program to Improve Functional		
Status	June	28
Kaiser Family Foundation	No Deadline	
Kaltenborn Foundation		
Grants for Scholarly Studies in Communication	Open	
Kellogg Foundation		
Expanding Opportunities for Adult Continuing Education	Continuous	
Health Promotion and Disease Prevention Programs	Continuous	
Coordinated, Cost-Effective Health Service Programs	Continuous	
Improving Human Well Being through Productive Agriculture	Continuous	
Fostering Leadership Capacity	Continuous	
Kennan Institute for Advanced Russian Studies		
Short-Term Visiting Grants	June	1
Kennedy Center Friedheim Awards	July	15

Leukemia Society of America	
Scholar Program	September 1
Special Fellow Program	September 1
Fellow Program	September 1
Lighting Research Institute	July 15
Lilly Endowment	No Deadline
MacArthur Foundation	
Peace Fellowships	July 31
March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Reproductive Hazards in the Workplace	June 1
Clinical (Abstract by May 15)	August 1
Social and Behavioral Sciences (Abstract by May 1)	September 1
Basic Research	October 1
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota, Education - Adult Education Special Experimental	
Demonstration Projects and Teacher Training	June 1
Minnesota, Education - Availability of Federal Funds for	
Adult Education	June 1
Minnesota Humanities Commission	
Small Grant	No Deadline
Minnesota Medical Foundation	June 30
Minnesota State Arts Board	
Inter Arts	June 7
Expansion Arts	October 14
Visual Arts	November 1
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Associaton	
Grants-in-Aid	June 30
Postdoctoral Fellowships (Request application 5/31)	June 30
National Geographic Society	
Grants-in-Aid	No Deadline
National Kidney Foundation	October 1
National Multiple Sclerosis Society	
Research Grants	August 1
Pew Memorial Trust	Continuous
Pfizer Pharmaceuticals Scholar Program for New Faculty	July 1
Puritan Bennett Foundation (formerly Parker B. Frances	
Foundation)	
Fellowships in Pulmonary Research	September 15
Research Corporation	
(Recommend submission 60 to 120 days prior to agency	
reviews in October, February and May)	No Deadline
Rockefeller Brothers Fund, Inc.	No Deadline
Rockefeller Foundation	
Research on the Genetic Engineering of Rice	Open
Gender Roles Program	September 15
Sloan Foundation	No Deadline
Southeastern Poultry and Egg Association	No Deadline
Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial	
Instrumentation	
Pre-proposals	No Deadline
Thrasher Research Fund	
Grants and Nutrition, Infectious Diseases, Health	
Promotion	No Deadline
University Genetics Company (UGEN)	No Deadline

University of Queensland, Postdoctoral Research Fellowships  
Villers Foundation

June 30  
No Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

Office of Research Administration  
Administrative Services Center, 5th Floor  
1919 University Avenue  
University of Minnesota  
St. Paul, Minnesota 55104

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# ORA RDC Newsletter

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## ORTTA ISSUES REPORT

The Office of Research and Technology Transfer Administration has distributed to deans and department heads its annual report entitled, *Levels and Trends in Sponsored Programs at the University of Minnesota*. This report provides information concerning fiscal year 1984 expenditures for sponsored research and training programs by college and sponsor, and information on proposal and award levels during fiscal years 1983 and 1984 by collegiate unit and source. A limited number of copies are available from ORTTA and can be obtained by calling 376-7358.

## BA FORM 22, ANIMAL USAGE FORM

Principal Investigators are reminded by Research Animal Resources to use only the most recent revision of BA Form 22 when submitting new or renewal proposals involving the use of warm blooded animals. Departments are requested to destroy their previous forms and use only those with the April 1984 revision date. The forms can be ordered through the General Storehouse at no expense to departments.

## DOE SPECIAL RESEARCH GRANTS PROGRAM

The Department of Energy, Office of Energy Research, has issued regulations governing a new program of Special Research Grants to be used for unsolicited proposals for basic and applied research and related conference and training activities. These grants will be limited to an average of \$2 million per year and shall not exceed \$3 million in any one year. Special Research Grants may be awarded in: (1) the basic energy and sciences; (2) high energy and nuclear physics; (3) health and environmental research; (4) fusion energy; (5) other program areas designated later. Please call ORTTA at 373-5925 for further information and/or application materials.

## DOE-OER PROGRAM ANNOUNCEMENT

The U.S. Department of Energy, Office of Energy Research, invites competitive proposals for a contract for the conduct of basic research in the following areas:

Office of Basic Energy Sciences: (1) biological energy; (2) chemical sciences; (3) carbon dioxide research; (4) geosciences; (5) engineering research; (6) materials sciences; (7) advanced energy projects; (8) applied mathematical sciences; (9) nuclear sciences (isotope preparation, heavy element chemistry and Stanford Synchrotron Radiation Laboratory).

Office of High Energy and Nuclear Physics: (1) nuclear physics; (2) high energy physics; (3) nuclear sciences (nuclear data and heavy ion fusion accelerator research).

Office of Health and Environmental Research: (1) physical and technological research; (2) ecological research; (3) health effects research; (4) human health and assessments.

Office of Fusion Energy: (1) applied plasma physics; (2) toroidal confinement systems; (3) mirror confinement systems; (4) division of development and technology.

For further information and application materials, call ORTTA at 373-5925.

### NEH SUMMER STIPENDS

National Endowment for the Humanities Summer Stipends provide support for college and university teachers to pursue two consecutive months in full-time study or research. The University will nominate three members of its faculty for Summer Stipends via an internal competition. The scope of support includes but is not limited to, the following: history, philosophy, languages, linguistics, literature, archaeology, jurisprudence, history and criticism of the arts, ethics, comparative religion and those aspects of the social sciences that employ historical or philosophical approaches. This last category includes cultural anthropology, sociology, political theory, international relations, and other subjects concerned with questions of value rather than quantitative matters. If you wish to be considered for nomination for a stipend, send a two-page proposal outlining your project and a curriculum vitae to: Dean's Office, the Graduate School, 321 Johnston Hall. The Graduate School must receive your proposal no later than SEPTEMBER 13. The three nominees will be notified by September 20 with their final proposals due in Washington OCTOBER 1. Stipend: \$3,000.00. Call 373-5101 if you have any questions regarding this program.

### SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORA CONTACT NUMBER FOR FEDERAL DEADLINE/PROGRAM INFORMATION IS 373-5925.

### FEDERAL

#### NATIONAL INSTITUTES OF HEALTH

Fogarty International Center, Eastern European Scientist  
Exchange Program, Health Scientist Exchange Program  
(Poland, Romania, U.S.S.R., Hungary and Yugoslavia)

Open

Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
Fogarty, Senior International Fellowship Program	October	1
NCI, National Collaborative Chemoprevention Projects (Information for tabulation only)	June	3
NCI, Comprehensive Minority Biomedical Program - Minority Satellite Supplement	October	1
NCI, Comprehensive Minority Biomedical Program - Minority Investigator Supplement	October	1
NCI, Cancer Education Program	October	1
NCI/NIAID/NIAIDDK/NICHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases: Research Grants	July	1
NCI, Biochemistry and Pharmacology Program	July	1
NCI, Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	July	1
NCI, Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	July	1
NCI, Prediction of Tumor Response to Radiation Therapy	July	1
NCI, Medical Imaging for Diagnosis and Treatment of Cancer	July	1
NCI, Research on Biological Response Modifiers	July	1
NEI, Causes and Prevention of Myopia	July	1
NEI, Research on Basic Mechanisms of Retinal Phototoxicity	July	1
NEI, Molecular Research in Strabismus, Amblyopia, and Visual Processing	July	1
NEI, Small Grants Program for Pilot Projects	October	1
NEI, Small Grants Program for Pilot Projects	October	1
NHLBI, Demonstration and Education Research Related to Pulmonary Disease	July	1
NHLBI, Arrhythmia Detection and Discrimination from Electrograms	July	1
NHLBI, Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young	July	1
NHLBI, Minimally Invasive Measurement of Blood Pressure in the Heart and Central Arteries	July	1
NHLBI, Development of Genetic Hypertensive Animal Models	July	1
NHLBI, Blood Transfusion and Cytomegalovirus Infection	July	1
NHLBI, Surfactants for Perflurochemicals	July	1
NHLBI, Research in Sickle Cell Disease: Pain Management in Sickle Cell Disease	July	1
NHLBI, Minority Summer Program in Pulmonary Research	August	1
NHLBI, RFA-85-HL-01-1-L, Specialized Centers of Research Concerned with Respiratory Disorders of Neonates and Children/National Research and Demonstration Centers for Respiratory Disorders of Neonates and Children	September	2
NHLBI, RFA-85-HL-10-H, Specialized Centers of Research in Arteriosclerosis (SCOR-A) and National Research and Demonstration Centers in Arteriosclerosis (NRDC-A)	September	16
NHLBI, Research Career Development Award: Basic Science Related to the Respiratory System	October	1
NHLBI, Transfusion of Medicine Academic Award	October	15

NHLBI, RFA-85-HL-02-L, Specialized Centers of Research and National Research and Demonstration Centers: Chronic Diseases of the Airways/Occupational and Immunological Lung Diseases/Pulmonary Vascular Diseases	December	2
NIA, Aging and Visual Perception		
Research Project Grant	July	1
New Investigator Award	July	1
Postdoctoral Fellow	October	1
Program Project	October	1
Others	October	1
NIA, The Oldest Old:		
Research Grants	July	1
New Investigator Awards	July	1
Program Project Grants	October	1
Individual Postdoctoral Fellowships	October	1
NIA, Molecular Biological and Genetic Basis of Aging	July	1
NIA, Geriatric Leadership Academic Award	July	1
NIA, Social Environments Influencing Health and Functioning in Later Years	July	1
NIA, Health Behaviors and Aging: Behavioral Geriatrics Research	October	1
NIA/NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	October	1
NIA/NIAID/NIADDK/NICHHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	October	1
NIA, Complementary Training Awards for Research on Aging	October	1
NIADDK, Research Grants on Use of New Techniques to Study Metabolic Processes and Diseases	July	1
NIADDK, Use of New Techniques to Study Metabolic Processes and Diseases	July	1
NIADDK, Dominantly Inherited Polycystic Kidney Disease	July	1
NIADDK/NICHHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	July	1
NIADDK/NIA/NIAID/NICHHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	July	1
NIADDK/NIDR Osteogenesis Imperfecta	July	1
NIADDK, Arthritis, Musculoskeletal and Skin Disease Research	July	1
NIADDK, Digestive Diseases and Nutrition Research	July	1
NIADDK/NIAID/NCI/NICHHD/NIGM, Liver Transplantation Research	July	1
NIAID, Minority Research Enhancement Program	Open	
NIAID, Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
New Grants	July	1
New Investigator	July	1
Career Development	October	1
Physician Scientist	October	1
Clinical Investigator	October	1
Postdoctoral Fellow	October	1
NIAID, RFA-85-AI-01, Program Projects on Mechanisms of Immunologic Diseases	June	15
NIAID, Biology of the Immune System (Letter of intent by 4/1/85)	June	15
NIAID, Human Papilloma Viruses and Genital Warts	July	1
NIAID, Mechanisms of Action of the Drug Cyclosporine	July	1
NIAID/NINCDS/NIA, Persistent Viral Infections - Alzheimer's Disease	July	1

NIAID, Centers: Asthma and Allergic Disease/Immunodermatologic Diseases (Letter of intent by 7/15/85)	October	15
NIAID, Centers for Interdisciplinary Research on Immunologic Diseases (Letter of intent by 7/15/85)	October	15
NICHD, Physical Activity in Pregnancy	July	1
NICHD/NHLBI, Hypertension in Pregnancy	July	1
NICHD, Non-Invasive Assessment of Normality of Pre-Gastrula Embryos	July	15
NICHD, 85-HD-05, Bioeffects of Ultrasound	July	15
NICHD, 85-HD-08, Injury and Injury Prevention in Children (Letter of intent 5/15/85)	July	15
NICHD, 85-HD-09, Non-Invasive Assessment of the Normality of Single Pre-Gastrula Embryos	July	15
NICHD, 85-HD-10, Defining and Subtyping Dyslexia	September	15
NIDR, Orofacial Pain Research Centers	June	15
NIDR, Small Grant Program	October	1
NIDR, Dentist Scientist Award	October	1
NIEHS/NIADDK, Effect of Environmental Agents on the Endocrine System	July	1
NIEHS, Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	October	1
NIEHS, Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	October	1
NIEHS, Specialized Centers of Research in Genetic Toxicology	October	1
NIGM, Cellular and Molecular Basis of Disease Research	July	1
NIGM, Physiology and Biomedical Engineering	July	1
NIGM, Genetics Research	July	1
NIGM, Pharmacological Sciences	July	1
NIGM, Minority Programs, Minority Biomedical Support and Minority Access to Research Careers	October	1
NIH, NMR Resources, Biotechnology Resources Program	June	1
NIH, Research Grants, Renewals	June	1
NIH, Research Career Development Awards	June	1
NIH, Individual Postdoctoral Fellowships	June	1
NIH, Institutional Training Programs	June	1
NIH, Research Grants, New	July	1
NIH, New Investigator Awards	July	1
NINCDS, Research Grants Related to Basic Mechanisms in the Phakomatosis	July	1
NINCDS, Osteosclerosis and Early Progressive Deafness	July	1
NINCDS/NIMH, Autism and Related Behavioral Disorders	July	1
NINCDS, Research Grants on Status Epilepticus	July	1
NINCDS, Research Grants on Basic Mechanisms of the Epilepsies	July	1
NINCDS, Clinical Investigator Development Award	October	1
NINCDS, Speech and/or Language Disorders in Children Individual Postdoctoral Fellowships	October	1
NIOSH, Research and Demonstrations Relating to Occupational Safety and Health:		
Research Grants	July	1
Demonstration Grants	July	1
Program Project Grants	July	1
Special Emphasis Research Career Award	October	1
Small Grant Program	October	1
NLM, Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	July	1

NLM, Investigator-Initiated Research Grants/New Investigator Research Awards	July	1
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NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award <u>for each</u> : School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	October	1
NHLBI, Research Training and Development Area: Development-Related Program	July	1
National Research Service Award Programs		
Institutional Research Training Grant Award	October	1
Individual Postdoctoral Fellowship Award	October	1
Senior Research Fellowship Award	October	1
Research Career Development Programs		
Research Career Development Award	October	1
Clinical Investigator Award	October	1
Physician Scientist Award	October	1
Special Emphasis Research Career Award: Diabetes Mellitus	October	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NIADDK/DDEMD, Scientific Instrumentation Grants	April	15
NIGMS, Shared Instrumentation Grants	February	15
NIH, Support of Scientific Meetings	June	1
NIH, National Research Service Awards for Senior Fellows	October	1
NIH, National Research Service Awards for Individual Postdoctoral Fellows	October	1
NIH, National Research Service Award Institutional Grants	October	1
NIH, National Research Service Awards for Short-term Training: Students in Health Professional Schools	February	1

**ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH**

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, New	July	1
ADAMHA/NIH/NCHSR, Research on Digestive Diseases:		
Research Grants	July	1
Research Career Development	October	1
ADAMHA, Individual Postdoctoral Fellowships	October	1
ADAMHA, Institutional Training Grants, NRSA	October	1
NIA, Studies on Exercise Physiology and Aging	July	1
NIAAAA/NIDA/NIMH, Institutional NRSA Training	October	1
NIDA/NIAAAA, Community Prevention Research in Alcohol and Drug Abuse	July	1
NIDA, Drug Abuse Prevention Research	July	1
NIMH, MH-84-01, Research Support Programs: Neurosciences, Behavioral Sciences, Epidemiologic, Clinical Assessment and Etiological, Treatment, Prevention and Service Research		
New Regular Research Grants	July	1

NIMH, Support for Child and Adolescent Mental Health Research and Research Training: Research Grants	July	1
NIMH, Child and Adolescent Mental Health Research and Research Training: Research Grants	July	1
NIMH, Geriatric Mental Health Award	July	1
NIMH, Clinical Investigator Award	July	1
NIMH, Research Grants Program	July	1
NIMH, Physician Scientist Award	July	1
NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders	July	1
NIMH/NIDA, Research on Obesity	July	1
NIMH/NINCDS, Autism and Related Behavioral Disorders	July	1
NIMH, Clinical Research Centers on Psychopathology of the Elderly	July	1
NIMH, Research on Mental Illness in Nursing Homes	July	1

### CENTERS FOR DISEASE CONTROL

Study of Transmission of Human T-Lymphotropic Virus Type III (HTLV-III) from Infected Mothers to Their Infants	June	24
Research and Demonstrations Relating to Occupational Safety and Health - (SERCA Grants and Small Grants)	July October	1 1

### DEPARTMENT OF EDUCATION

Office of Special Education and Rehabilitative Services Research and Training Centers	June	10
Rehabilitation Engineering Centers	June	10
Research and Demonstration Projects	June	10
Dissemination and Utilization Projects	June	10
Office of Bilingual Education and Minority Languages Affairs Program of Transitional Bilingual Education	June	17
Program for Developmental Bilingual Education	June	17
Special Alternative Instructional Program	June	17
Family English Literacy Program	June	17
Special Populations Program	June	17
Program for the Development of Instructional Materials	June	17
Education Personnel Training Program	June	17
OSERS/ED; Rehabilitation Long-Term Training	June	17
Magnet Schools Assistance Program for Fiscal Year 1985; Applications	June	18
Discretionary Grants Programs Research in Education of the Handicapped - Field Initiated Research Projects (non-competing continuation)	June	21
National Institute of Handicapped Research Office of Special Education and Rehabilitative Services Innovation Grants	July	1
Centers for Independent Living	July	10

## HEALTH CARE FINANCING ADMINISTRATION

Medicare and Medicaid Programs, Health Care Financing Research and Demonstration Cooperative Agreements and Grants (Waiver-only and discretionary funds awards)	November	4
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## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Geriatric Education Centers (Comments due 4/8/85)	May	20
Advanced Nurse Training Grants	July	1
Nurse Practitioner Training Grants	July	1
Nursing Special Project Grants	July	1
Maternal and Child Health (MCH) Projects Training Research	August	1
National Research Service Awards - Institutional Grants	October	1
Competing Cooperative Agreements for Area Health Education Center Programs	December	14

## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
Research on Digestive Diseases	July	1
NCHSR Extramural Research	July	1

## NATIONAL INSTITUTE OF EDUCATION

Planning Grants and Institutional Grants for Educational Research and Development Centers: Institutional Grants	August	15
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## OFFICE OF HUMAN DEVELOPMENT SERVICES

Resource Centers for Child Welfare Services	June	17
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## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Programs	Open	
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U.S.-Korea Cooperative Science (NSF 83-50). Proposals for long-term visits and cooperative research only. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	July	1
U.S.-East Asia Cooperative Science (NSF 83-50). Philippine component only. Proposals for long-term visits, cooperative research, seminars and workshops. Contact Dr. Gerald A. Edwards, Division of International Programs (202) 357-9537	July	1
Presidential Young Investigators Awards	July	1
Small Business Innovation Research. Contact Mr. Roland Tibbetts or Mr. Ritchie Coryell, Division of Industrial Science and Technological Innovation (202) 357-7527	July	15
VLSI (Very Large Scale Integration) Fast Turnaround Fabrication Service for Universities (NSF 83-43). Contact Dr. Andrew Molnar, Directorate for Science and Engineering Education (202) 357-7539	August	1
Ethics and Values in Science and Technology (NSF 83-62). Formal proposals. Contact Dr. Rachele Hollander, Division of Research Initiation and Improvement (202) 357-7552	August	1
Special Research Initiation Awards for New Investigators in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572	August	7
Teacher Enhancement and Informal Science Education Presidential Awards for Excellence in Science and Mathematics Teaching	Open	
Informal Science Education	August	1
Science and Mathematics Education Networks	August	1
Leadership Activities for Precollege Teachers	August	15
Local and Regional Teacher Development	August	15
U.S.-United Kingdom Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September	1
U.S.-Austria Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September	15
U.S.-Federal Republic of Germany Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September	15
Cooperative Science Activities with Denmark, the Netherlands, and Norway (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September	15

U.S.-Finland Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-Sweden Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-Spain Cooperative Program in Basic Sciences (NSF 84-10). Proposals for cooperative research, joint seminars, exchange of scientists, and short term visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-India Exchange of Scientists (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September 15
Coordinated Experimental Research (NSF 83-60). Limited to Ph.D.-granting institutions with research programs in computer science and engineering. Contact Dr. W. Richards Adrion, Division of Computer Research (202) 357-7375	September 16
U.S.-Australia Cooperative Science (NSF 81-49, as revised Jan. 1982). For seminars, cooperative research projects in which reciprocal (exchange) visits are proposed, and visits by Australians to the United States (i.e. no cost to NSF) only, for requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October 1
U.S.-New Zealand Cooperative Science (NSF 81-50). Proposals for projects with requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October 1
NATO Advanced Study Institute Travel Awards	November 1
NATO Postdoctoral Fellowships in Science	November 1

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	June 30
Biochemistry (NSF 83-96). Contact Dr. Arnold Revzin or Ms. Estella Engel, Division of Molecular Biosciences (202) 357-7945	July 1
Biophysics (NSF 83-96). Contact Dr. Arthur Kowalsky or Ms. Brenda Flam, Division of Molecular Biosciences (202) 357-7777	July 1
Cell Biology (NSF 83-96). Contact Dr. Gertrude Kasbekar, Division of Cellular Biosciences (202) 357-7474	July 1
Cellular Physiology (NSF 83-96). Contact Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (202) 357-7377	July 1
Developmental Biology (NSF 83-96). Contact Dr. Donald Fosket or Dr. Jane Peterson, Division of Cellular Biosciences (202) 357-0112	July 1
Eukaryotic Genetics (NSF 83-96). Contact Dr. DeLill Nasser, Division of Cellular Biosciences (202) 357-0112	July 1

Regulatory Biology (NSF 83-96). Contact Dr. Elvira Doman, Division of Cellular Biosciences (202) 357-0112	July	1
Molecular and Cellular Neurobiology (NSF 84-9). Contact Dr. Joel Colton, Division of Behavioral and Neural Sciences (202) 357-7471	July	1
Prokaryotic Genetics (NSF 83-96). Contact Dr. Philip Harriman or Dr. Rolf Benzinger, Division of Molecular Biosciences (202) 357-9687	July	1
Psychobiology (NSF 84-9). Contact Dr. Fred Stollnitz, Division of Behavioral and Neural Sciences (202) 357-7949	July	1
Social and Developmental Psychology (NSF 84-9). Contact Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (202) 357-9485	July	1
Earth Sciences: Stratigraphy and Paleontology; Surficial Processes; Crustal Structure and Tectonics; Seismology; Experimental and Theoretical Geophysics; Petrogenesis and Mineral Resources; Volcanology and Mantle Geochemistry; Experimental and Theoretical Geochemistry; Continental Lithosphere; and Instrumentation and Facilities. For Earth Sciences Research Equipment (NSF 83-28). Contact Dr. James Hays, Division of Earth Sciences (202) 357-7958	July	1
Ship Operations Support. Instructions for preparation of proposals requesting support for: Ship Operations Support (NSF 81-18). Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	July	1
Shipboard Technicians. Instructions for preparation of proposals requesting support for: Shipboard Technicians (NSF 81-23). Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	July	1
Climate Dynamics. Contact Dr. Thomas Crowley, Division of Atmospheric Sciences (202) 357-9892	August	1
Developmental Neurosciences (NSF 84-9). Contact Dr. Jean Lauder, Division of Behavioral and Neural Sciences (202) 357-7042	August	1
Integrative Neural Systems (NSF 84-9). Contact Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (202) 357-7040	August	1
Linguistics (NSF 84-9). Contact Dr. Paul Chapin, Division of Behavioral and Neural Sciences (202) 357-7696	August	1
Memory and Cognitive Processes (NSF 84-9). Contact Dr. Joseph Young, Division of Behavioral and Neural Sciences (202) 357-9898	August	1
Sensory Physiology and Perception (NSF 84-9). Contact Dr. James Larimer, Division of Behavioral and Neural Sciences (202) 357-7428	August	1
Decision and Management Science. Contact Dr. Trudi Miller, Division of Social and Economic Science (202) 357-7569	September	1
Economics. Contact Dr. James Blackman, Dr. Daniel Newlon, Dr. Lynn Pollnow, or Dr. James Slaugh, Jr., Division of Social and Economic Science (202) 357-9675	September	1
Geography and Regional Science. Contact Dr. Ronald Ablner, Division of Social and Economic Science (202) 357-7441	September	1
History and Philosophy of Science. Contact Dr. Ronald Overmann or Ms. Bonney Sheahan, Division of Social and Economic Science (202) 357-9677	September	1

Law and Social Sciences. Contact Dr. Felice Levine or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-9567	September 1
Oceanographic Instrumentation. Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	September 1
Shipboard Scientific Support Equipment. Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	September 1
Arctic Research (NSF 82-33). For arctic summer beginning March 1, 1986. Contact Mr. Guy Guthridge, Division of Polar Programs (202) 357-7766	September 1
Ocean Sciences Instrumentation Development. Request the brochure "Proposals for Ocean Sciences Instrumentation Development," from Mr. H. Lawrence Clark, Division of Ocean Sciences (202) 357-7837	September 1
Measurement Methods and Data Improvement. Contact Dr. Murray Aborn or Dr. Sara Nerlove, Division of Social and Economic Science (202) 357-7913	September 1
Political Science. Contact Dr. Frank Scioli, Jr., Division of Social and Economic Science (202) 357-7534	September 1
Regulation and Policy Analysis. Contact Dr. Laurence Rosenberg, Division of Social and Economic Science (202) 357-7417	September 1
Sociology. Contact Dr. Joanne Miller, Dr. Thomas Guterbock, or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-7802	September 1
Sub-Saharan Africa Cooperative Science (NSF 84-26). Contact Mr. Robert Bell, Division of International Programs (202) 357-9550	September 1
Science in Developing Countries. Contact Sub-Saharan Africa: Mr. Robert Bell (202) 357-9550; North Africa and Turkey: Mr. Francis Field (202) 357-9402; South and West Asia: Dr. Osman Shinaishin (202) 357-9402; East Asia: Dr. Gordon Hiebert (202) 357-9537; and Latin America and Caribbean: Ms. Christine French, Division of International Programs (202) 357-9563	September 1
U.S.-East Asia Cooperative Science (NSF 83-50). Indonesia, Malaysia, Singapore, Thailand. Contact Dr. Gordon Hiebert, Division of International Programs (202) 357-9537	September 1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	September 30
Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	September 30
Materials Development and Research	
Instructional Materials Development	October 1
Materials and Methods for Teacher Preparation	October 1
Applications of Advanced Technologies	October 1
Research in Teaching and Learning	October 1
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	October 1
Doctoral Dissertation Research in Biotic Systems and Resources. Contact Dr. James Edwards, Division of Biotic Systems and Resources (202) 357-9588	October 1

Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	October 1
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	October 1
Productivity Improvement Research (NSF 84-16). Contact Dr. J. D. Eveland, Dr. William Hetzner, or Dr. E. C. Johnson, Division of Industrial Science and Technological Innovation (202) 357-9804	October 1

\*NSF Proposals may be submitted for the following programs at any time of the year. It takes approximately six to nine months to process a proposal. Brochures indicated in parentheses may be ordered.

U.S.-Korea Cooperative Science (NSF 83-50). Short-term visits only. Contact Dr. Gerald Edwards (202) 357-9537	*
U.S.-East Asia Cooperative Science (NSF 83-50). Short-term visits only to the Philippines and Korea. Contact Dr. Gerald Edwards (202) 357-9537	*
U.S.-East Asia Cooperative Science (NSF 83-50). Excluding Philippines and Korea. Contact Dr. Gordon Hiebert (202) 357-9537	*
U.S.-India Cooperative Science (NSF 82-86). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402	*
U.S.-Pakistan Cooperative Science (NSF 80-49). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402	*
U.S.-China Cooperative Science (NSF 82-50). For information regarding field limitations contact Dr. Pierre Perrolle or Mr. Alexander DeAngelis (202) 357-7393	*
U.S.-Belgium Cooperative Science (NSF 83-73). Cooperative research projects, joint seminars (202) 357-7554	*
U.S.-Japan Cooperative Science (NSF 81-58). Proposals from U.S. investigators for long-term visits to spend from 6 to 12 months conducting research in Japan (202) 357-9558	*
U.S.-Japan Program for Cooperation in Photoconversion and Photosynthesis (NSF 83-11). Letter-proposals for visits up to two weeks in Japan to plan formal research in cooperation with Japanese investigators in the areas of photoconversion and photosynthesis (202) 357-9558	*
NSF-NATO Exchange for International Academic-Industrial Exchanges of U.S. Scientists (Double Jump). Postdoctoral program for the exchange of scientists from the academic and industrial communities of the U.S. and NATO member countries (202) 357-7554	*
U.S.-New Zealand Cooperative Science (NSF 81-50). Letter- proposals for short-term visits (limited to air fare and up to three weeks' per diem) to develop cooperative research in physical oceanography, air/sea interaction, marine geology, geophysics or biology (marine productivity) (202) 357-9558	*
Research in Undergraduate Institutions (NSF 83-79). Contact appropriate disciplinary program in NSF for more specific target dates and number of copies of proposals needed or contact Dr. Joseph Danek, Director of Special Projects, Division of Research Initiation and Improvement (202) 357-7456	*

Minority Research Initiation (NSF 80-42). Contact  
 Dr. Roosevelt Calbert (202) 357-7350 \*  
 Synthetic Inorganic and Organometallic Chemistry  
 (NSF 83-57). Contact Dr. Oren Williams (202) 357-7499 \*  
 Synthetic Organic and Natural Products Chemistry (NSF 83-57).  
 Contact Dr. John Showell (202) 357-7499 \*  
 Chemical Analysis (NSF 83-57). Contact Dr. Henry Blount, III  
 (202) 357-7503 \*  
 Chemical Instrumentation (NSF 83-57). Contact Dr. John  
 Hunt (202) 357-7960 \*  
 Structural Chemistry and Thermodynamics (NSF 83-57).  
 Contact Dr. William Harris (202) 357-9826 \*  
 Chemical Physics (NSF 83-57). Contact Dr. William Cramer  
 (202) 357-7951 \*  
 Chemical Dynamics (NSF 83-57). Contact Dr. Richard  
 Holder (202) 357-7956 \*  
 Instrumentation for Materials Research (NSF 82-79).  
 Contact Dr. William Oosterhuis (202) 357-7570 \*  
 National Facilities. Contact Dr. Dean Mitchell  
 (202) 357-9791 \*  
 Materials Research Laboratory. Contact Dr. Adriaan  
 de Graaf (202) 357-9791 \*  
 Materials Research Group. Contact Dr. W. Lance Haworth  
 (202) 357-9791 \*  
 Atomic, Molecular, and Plasma Physics. Contact  
 Dr. Rolf Sinclair (202) 357-7997 \*  
 Elementary Particle Physics. Contact Dr. David Berley  
 (202) 357-9575 \*  
 Gravitational Physics. Contact Dr. Richard Isaacson  
 (202) 357-7979 \*  
 Intermediate Energy Nuclear Physics. Contact Dr. Peter  
 Riley (202) 357-7992 \*  
 Nuclear Physics. Contact Dr. William Rodney (202) 357-7992 \*  
 Theoretical Physics. Contact Dr. Boris Kayser (202) 357-7979 \*  
 Aeronomy. Contact Dr. Andrew Christensen (202) 357-7619 \*  
 Atmospheric Chemistry. Contact Dr. Jarvis Moyers  
 (202) 357-9657 \*  
 Experimental Meteorology. Contact Dr. Richard Greenfield  
 (202) 357-9887 \*  
 Global Atmospheric Research. Contact Dr. Jay Fein  
 (202) 357-9887 \*  
 Meteorology. Contact Dr. Ronald Taylor (202) 357-7624 \*  
 Solar Terrestrial. Contact Dr. Dennis Peacock (202) 357-7618 \*  
 Upper Atmospheric Facilities. Contact Dr. Richard Behnke  
 (202) 357-7390 \*  
 Astronomical Instrumentation and Development. Contact  
 Dr. G. W. Van Citters, Jr. (202) 357-9793 \*  
 Extragalactic Astronomy. Contact Dr. James Wright  
 (202) 357-7639 \*  
 Galactic Astronomy. Contact Dr. Kurt Weiler (202) 357-7620 \*  
 Solar System Astronomy. Contact Dr. Kurt Weiler  
 (202) 357-7620 \*  
 Stars and Stellar Evolution. Contact Dr. Peter Pesch  
 (202) 357-7622 \*  
 Electromagnetic Spectrum. Contact Dr. Vernon Pankonin  
 (202) 357-9696 \*

Anthropology. Doctoral Dissertation Proposals. Contact Ms. Mary Greene, Division of Behavioral and Neural Sciences (202) 357-7804 \*

Biological Research Resources. Contact Dr. James Tyler, Division of Biotic Systems and Resources (202) 357-7475 \*

Industry/University Cooperative Research Projects (NSF 82-56). Contact Dr. Frederick Betz (202) 357-7785 or Mr. Alex Schwarzkopf (202) 357-7527, Division of Industrial Science and Technology Innovation. \*

Industry/University Cooperative Research Centers. Contact Mr. Robert Colton or Mr. Alex Schwarzkopf, Division of Industrial Science and Technological Innovation (202) 357-7527 \*

Research in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572 \*

Alternative Biological Resources (NSF 83-96). Contact Dr. H. Huang, Division of Molecular Biosciences (202) 357-9782 \*

Mathematical Sciences. Programs for disciplinary research include Classical Analysis, Modern Analysis, Geometric Analysis, Topology and Foundations, Algebra and Number Theory, Applied Mathematics, and Statistics and Probability. Contact the appropriate disciplinary program for guidelines for the submission of proposals. Division of Mathematical Sciences (202) 357-9764 \*

## COUNCIL FOR INTERNATIONAL EXCHANGE OF SCHOLARS

Indo-American Fellowship Program: Advanced Research in India, 1985-86	June	15
Fulbright Scholar Program: Australasia, India, Latin America, Caribbean	June	15

## DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration Research and Development Grants to Strengthen and Develop the U.S. Fishing Industry	June	17
National Bureau of Standards; Center for Manufacturing Engineering, Automated Manufacturing Research Facility (AMRF) Research Grants Program	Open	

## DEPARTMENT OF DEFENSE

Office of Naval Research Strategic Defense Initiative	Open	
U.S. Air Force University Resident Research Program	Open	

## DEPARTMENT OF JUSTICE

Office of Juvenile Justice and Delinquency Prevention Research and Program Development Programs	Open
National Institute of Justice Drugs, Alcohol and Crime	May 22
Visiting Fellowships	November 15

## ENVIRONMENTAL PROTECTION AGENCY

Environmental Protection-Consolidation Research	Open
Air Pollution Control Research Grants	Open
Pesticides Control Research	Open
Solid Waste Disposal Research	Open
Water Pollution Control-Research, Development, and Demonstration Grants	Open
Safe Drinking Water Research and Demonstration Toxic Substances Research	Open

## NATIONAL ENDOWMENT FOR THE ARTS

U.S./French Exchange Program: Deadline varies with Discipline	Various
Museum	
Special Projects	No Deadline
Collections and Resources	July 1
Media Arts Program	
Radio Projects	July 20
AFI Independent Filmmaker Awards	September 14
Programming in the Arts	September 30
Opera-Musical Theater	
New American Works/Producer Grants	September 16
Special Projects-Other	September 16

## NATIONAL ENDOWMENT FOR THE HUMANITIES

Youth Projects (Preliminary April 20)	June 15
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## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts Visiting Senior Fellowships and Associates (For 3/1/86-8/31/86)	September 21
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## SMITHSONIAN INSTITUTION

Smithsonian Fellowships: Faculty Research Fellowships	June 15
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# U.S. INFORMATION AGENCY

1986-87 Fulbright Teacher Exchange Program

October 15

## NONFEDERAL

American Cancer Society		
Regular Clinical Fellowship		
Final Application	July	1
American Chemical Society - Petroleum Research Fund		
Grants-in-Aid	No	Deadline
American Heart Association		
Established Investigatorships	July	1
Clinical-Scientist Award	July	1
British-American Research Fellowships	July	1
Medical Student Research Fellowships	July	1
American Council of Learned Societies	July	1
American Philosophical Society		
Grants-in-Aid	Various--	Contact ORA
Andrew W. Mellon Foundation	No	Deadline
Bosch Foundation Fellowship Program	No	Deadline
Brown Foundation	No	Deadline
Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)	No	Deadline
Carnegie Corporation	No	Deadline
Center for Field Research (Earthwatch)		
Latin America Field Research Grants	No	Deadline
Camille and Henry Dreyfus Foundation		
Special Grants in Chemistry, Biochemistry, and		
Chemical Engineering to Improve Human Relations	June	15
CIGNA Foundation		
Health Care Cost Containment Projects	June	29
Cystic Fibrosis Foundation		
Research Scholar Awards	September	1
New Investigator Research Grants	September	1
Research Grants	September	1
Research Fellowships	September	1
Clinical Fellowships	October	1
Student Traineeships	October	1
Damon Runyon Walter Winchell Cancer Fund		
Fellowship Grants	August	15
Human Cancer-Directed Fellowship Grants	August	15
Dana Foundation	No	Deadline
Deafness Research Foundation	July	15
Easter Seal Research Foundation	August	1
Edna McConnell Clark Foundation	No	Deadline
Engineering Foundation (Pre-proposals)	No	Deadline
Epilepsy Foundation of America		
Clinical Research Fellowships	September	1
Research Grant Application	September	1
Exxon Education Foundation	No	Deadline
Ford Foundation	No	Deadline
Gas Research Foundation		
Telephone contact or letter of inquiry prior to		
submission of formal proposal	No	Deadline
General Motors Foundation	No	Deadline

German Marshall Fund	
Short-Term Travel Awards	No Deadline
Hewlett Foundation	No Deadline
Houghton Mifflin Literary Fellowships	No Deadline
International Foundation of Employee Benefit Plans	
Postdoctoral Grants-in-Aid	Open
The Robert Wood Johnson Foundation	
Research and Development Program to Improve Functional Status	June 28
Kaiser Family Foundation	No Deadline
Kaltenborn Foundation	
Grants for Scholarly Studies in Communication	Open
Kellogg Foundation	
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
Kennedy Center Friedheim Awards	July 15
Leukemia Society of America	
Scholar Program	September 1
Special Fellow Program	September 1
Fellow Program	September 1
Lighting Research Institute	July 15
Lilly Endowment	No Deadline
MacArthur Foundation	
Peace Fellowships	July 31
March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Clinical (Abstract by May 15)	August 1
Social and Behavioral Sciences (Abstract by May 1)	September 1
Basic Research	October 1
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
Small Grant	No Deadline
Minnesota Medical Foundation	June 30
Minnesota State Arts Board	
Expansion Arts	October 14
Visual Arts	November 1
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Associaton	
Grants-in-Aid	June 30
Postdoctoral Fellowships (Request application 5/31)	June 30
National Geographic Society	
Grants-in-Aid	No Deadline
National Kidney Foundation	October 1
National Multiple Sclerosis Society	
Research Grants	August 1
Pew Memorial Trust	Continuous
Pfizer Pharmaceuticals Scholar Program for New Faculty	July 1
Puritan Bennett Foundation (formerly Parker B. Frances Foundation)	
Fellowships in Pulmonary Research	September 15
Research Corporation	
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline
Rockefeller Brothers Fund, Inc.	No Deadline

Rockefeller Foundation	
Research on the Genetic Engineering of Rice	Open
Gender Roles Program	September 15
Sloan Foundation	No Deadline
Southeastern Poultry and Egg Association	No Deadline
Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial	
Instrumentation	
Pre-proposals	No Deadline
Thrasher Research Fund	
Grants and Nutrition, Infectious Diseases, Health	
Promotion	No Deadline
University Genetics Company (UGEN)	No Deadline
University of Queensland, Postdoctoral Research Fellowships	June 30
Villers Foundation	No Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

# ORADDC Newsletter

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JULY 1985

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## SPIN AVAILABLE IN ORTTA

Sponsored Projects Information Network (SPIN), a computerized locator system of funding opportunities (federal, nonfederal, and corporate) for faculty and institutional research, development and educational program support, is now available through ORTTA. Faculty interested in searching this on-line communication network for possible funding opportunities should contact Winifred A. Schumi at 376-7353.

## RETROACTIVE SALARY INCREASES

As you know, July 1 salary increases will be paid retroactively. We will be corresponding with you at a later date concerning the specific handling on sponsored accounts. At this time, however, we would like to remind you that funds must be reserved in sponsored accounts to fund these increases. Final financial reports for those projects ending after June 30, 1985 will not be completed by this office until the retroactive increase has been paid. Any questions concerning retroactive salary increases on sponsored accounts should be directed to Mary Lou Weiss at 373-5925.

## BIOMEDICAL RESEARCH SUPPORT

The Lucille P. Markey Charitable Trust has announced project support for basic biomedical research. Emphasis will be on supporting efforts by groups of investigators addressing fundamental questions in biomedical science, particularly in fields such as molecular biology, developmental biology, neurobiology, immunology, genetics, virology and related areas of basic science. For a copy of the program announcement and application procedures, contact ORTTA at 376-7353.

## NEH SUMMER STIPENDS

National Endowment for the Humanities Summer Stipends provide support for college and university teachers to pursue two consecutive months in full-time study or research. The University will nominate three members of its faculty for Summer Stipends via an internal competition. The scope of support includes but is not limited to, the following: history, philosophy, languages, linguistics, literature, archaeology, jurisprudence, history and criticism of the arts, ethics, comparative religion and those aspects of the social sciences

that employ historical or philosophical approaches. This last category includes cultural anthropology, sociology, political theory, international relations, and other subjects concerned with questions of value rather than quantitative matters. If you wish to be considered for nomination for a stipend, send a two-page proposal outlining your project and a curriculum vitae to: Dean's Office, the Graduate School, 321 Johnston Hall. The Graduate School must receive your proposal no later than SEPTEMBER 13. The three nominees will be notified by September 20 with their final proposals due in Washington OCTOBER 1. Stipend: \$3,000. Call 373-5101 if you have questions regarding this program.

## AMERICAN CANCER SOCIETY (ACS) INSTITUTIONAL RESEARCH GRANT AWARD

The University of Minnesota has been awarded a renewal of its Institutional Research Grant from the ACS for 1985-1986. This fund is intended to serve as "seed" money permitting the initiation of promising new projects or novel ideas, especially by junior investigators, in cancer-related research. Encouragement of cancer research may also be facilitated by support of seminars on cancer-related topics, and by graduate student research. The fund is administered by a Dean's Committee of the Medical School with representation from other biologically-oriented colleges. The Committee is now accepting applications for individual grants not to exceed \$7,500 from this fund. Instructions and application forms may be obtained from the Dean's Committee for the ACS Institutional Research Grant, Room 421 Masonic Cancer Center, 373-4318. Deadline: October 1, 1985.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORA CONTACT NUMBER FOR FEDERAL DEADLINE/PROGRAM INFORMATION IS 373-5925.

## FEDERAL

### NATIONAL INSTITUTES OF HEALTH

Fogarty International Center, Eastern European Scientist Exchange Program, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open
Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open
Fogarty, Senior International Fellowship Program	October 1
NCI, 85-CA-13, Clinical Evaluation of Models of Biochemical Modulation	September 15
NCI, Preventive Oncology Academic Award	October 1
NCI, Comprehensive Minority Biomedical Program - Minority Satellite Supplement	October 1
NCI, Comprehensive Minority Biomedical Program - Minority Investigator Supplement	October 1

NCI, Cancer Education Program	October	1
NCI/NIAID/NIADDK/NICHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases: Research Grants	November	1
NCI, Biochemistry and Pharmacology Program	November	1
NCI, Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	November	1
NCI, Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	November	1
NCI, Prediction of Tumor Response to Radiation Therapy	November	1
NCI, Medical Imaging for Diagnosis and Treatment of Cancer	November	1
NCI, Research on Biological Response Modifiers	November	1
NCI, Cancer Control Science Associates Program	November	22
NEI, Small Grants Program for Pilot Projects	October	1
NEI, Small Grants Program for Pilot Projects	October	1
NEI, Causes and Prevention of Myopia	November	1
NEI, Research on Basic Mechanisms of Retinal Phototoxicity	November	1
NEI, Molecular Research in Strabismus, Amblyopia, and Visual Processing	November	1
NHLBI, Renewal of Clinical Investigator and Physician Scientist Awards	August	1
NHLBI, Clinical Investigation/Physician Scientist Awards	August	1
NHLBI, Minority Summer Program in Pulmonary Research	August	1
NHLBI, RFA-85-HL-01-1-L, Specialized Centers of Research Concerned with Respiratory Disorders of Neonates and Children/National Research and Demonstration Centers for Respiratory Disorders of Neonates and Children	September	2
NHLBI, RFA-85-HL-10-H, Specialized Centers of Research in Arteriosclerosis (SCOR-A) and National Research and Demonstration Centers in Arteriosclerosis (NRDC-A)	September	16
NHLBI, Career Development Programs for Physicians in Cardiac and Vascular Research in Cerebrovascular Disease	October	1
NHLBI, Research Career Development Award: Basic Science Related to the Respiratory System	October	1
NHLBI, Transfusion of Medicine Academic Award	October	15
NHLBI, Demonstration and Education Research Related to Pulmonary Disease	November	1
NHLBI, Arrhythmia Detection and Discrimination from Electrograms	November	1
NHLBI, Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young	November	1
NHLBI, Minimally Invasive Measurement of Blood Pressure in the Heart and Central Arteries	November	1
NHLBI, Development of Genetic Hypertensive Animal Models	November	1
NHLBI, Blood Transfusion and Cytomegalovirus Infection	November	1
NHLBI, Surfactants for Perflurochemicals	November	1
NHLBI, Research in Sickle Cell Disease: Pain Management in Sickle Cell Disease	November	1
NHLBI, RFA-85-HL-02-L, Specialized Centers of Research and National Research and Demonstration Centers: Chronic Diseases of the Airways/Occupational and Immunological Lung Diseases/Pulmonary Vascular Diseases	December	2
NIA, Health Behaviors and Aging: Behavioral Geriatrics Research	October	1

NIA/NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	October	1
NIA/NIAID/NIADDK/NICHHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	October	1
NIA, Complementary Training Awards for Research on Aging	October	1
NIA, Aging and Visual Perception		
Postdoctoral Fellow	October	1
Program Project	October	1
Others	October	1
Research Project Grant	November	1
New Investigator Award	November	1
NIA, The Oldest Old:		
Program Project Grants	October	1
Individual Postdoctoral Fellowships	October	1
Research Grants	November	1
New Investigator Awards	November	1
NIA, Studies on Exercise Physiology and Aging	November	1
NIA, Molecular Biological and Genetic Basis of Aging	November	1
NIA, Geriatric Leadership Academic Award	November	1
NIA, Social Environments Influencing Health and Functioning in Later Years	November	1
NIADDK, Research Grants on Use of New Techniques to Study Metabolic Processes and Diseases	November	1
NIADDK, Use of New Techniques to Study Metabolic Processes and Diseases	November	1
NIADDK, Dominantly Inherited Polycystic Kidney Disease	November	1
NIADDK/NICHHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	November	1
NIADDK/NIA/NIAID/NICHHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	November	1
NIADDK/NIAID/NCI/NICHHD/NIGM, Liver Transplantation Research	November	1
NIAID, Minority Research Enhancement Program	Open	
NIAID, 85-AI-05, Studies of Acquired Immunodeficiency Syndrome	September	15
NIAID, Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
Career Development	October	1
Physician Scientist	October	1
Clinical Investigator	October	1
Postdoctoral Fellow	October	1
New Grants	November	1
New Investigator	November	1
NIAID, Asthma and Allergic Disease Centers for Immunodermatologic Studies	October	15
NIAID, Human Papilloma Viruses and Genital Warts	November	1
NIAID, Mechanisms of Action of the Drug Cyclosporine	November	1
NIAID/NINCDS/NIA, Persistent Viral Infections - Alzheimer's Disease	November	1
NIAID, Centers: Asthma and Allergic Disease/Immunodermatologic Diseases (Letter of intent by 7/15/85)	October	15
NIAID, Centers for Interdisciplinary Research on Immunologic Diseases (Letter of intent by 7/15/85)	October	15
NICHHD, Non-Invasive Assessment of Normality of Pre-Gastrula Embryos	July	15
NICHHD, 85-HD-05, Bioeffects of Ultrasound	July	15
NICHHD, 85-HD-08, Injury and Injury Prevention in Children (Letter of intent 5/15/85)	July	15

NICHD, 85-HD-09, Non-Invasive Assessment of the Normality of Single Pre-Gastrula Embryos	July	15
NICHD, 85-HD-10, Defining and Subtyping Dyslexia	September	15
NICHD, Physical Activity in Pregnancy	November	1
NICHD/NHLBI, Hypertension in Pregnancy	November	1
NIDR, Small Grant Program	October	1
NIDR, Dentist Scientist Award	October	1
NIEHS, Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	October	1
NIEHS, Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	October	1
NIEHS, Specialized Centers of Research in Genetic Toxicology	October	1
NIEHS/NIADDK, Effect of Environmental Agents on the Endocrine System	November	1
NIGM, Cellular and Molecular Basis of Disease Research	November	1
NIGM, Physiology and Biomedical Engineering	November	1
NIGM, Genetics Research	November	1
NIGM, Pharmacological Sciences	November	1
NIGM, Minority Programs, Minority Biomedical Support and Minority Access to Research Careers	October	1
NIH, NMR Resources, Biotechnology Resources Program	October	1
NIH, Research Grants, Renewals	October	1
NIH, Research Career Development Awards	October	1
NIH, Individual Postdoctoral Fellowships	October	1
NIH, Institutional Training Programs	October	1
NIH, Research Grants, New	November	1
NIH, New Investigator Awards	November	1
NINCDS, Clinical Investigator Development Award	October	1
NINCDS, Speech and/or Language Disorders in Children Individual Postdoctoral Fellowships	October	1
NINCDS, Research Grants Related to Basic Mechanisms in the Phakomatosis	November	1
NINCDS, Osteosclerosis and Early Progressive Deafness	November	1
NINCDS, Research Grants on Status Epilepticus	November	1
NINCDS, Research Grants on Basic Mechanisms of the Epilepsies	November	1
NINCDS/NIMH, Autism and Related Behavioral Disorders	December	1
NIOSH, Research and Demonstrations Relating to Occupational Safety and Health:		
Special Emphasis Research Career Award	October	1
Small Grant Program	October	1
Research Grants	November	1
Demonstration Grants	November	1
Program Project Grants	November	1
NLM, Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	November	1
NLM, Investigator-Initiated Research Grants/New Investigator Research Awards	November	1



## NIH ANNUAL DEADLINES

NCI, Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award for each: School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NEY/NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	October	1
NHLBI, Research Training and Development Area: Development-Related Program	July	1
National Research Service Award Programs		
Institutional Research Training Grant Award	October	1
Individual Postdoctoral Fellowship Award	October	1
Senior Research Fellowship Award	October	1
Research Career Development Programs		
Research Career Development Award	October	1
Clinical Investigator Award	October	1
Physician Scientist Award	October	1
Special Emphasis Research Career Award: Diabetes Mellitus	October	1
NIA, Academic Award	July	1
NIADDK/NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NIADDK/DDEMD, Scientific Instrumentation Grants	April	15
NIADDKD, Special Emphasis Research Career Award: Diabetes Mellitus-Obstetrical, Perinatal, and Pediatric Aspects	June	1
NIGMS, Shared Instrumentation Grants	February	15
NIH, Support of Scientific Meetings	June	1
NIH, National Research Service Awards for Senior Fellows	October	1
NIH, National Research Service Awards for Individual Postdoctoral Fellows	October	1
NIH, National Research Service Award		
Institutional Grants	October	1
NIH, National Research Service Awards for Short-term Training: Students in Health Professional Schools	February	1

## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
Research Career Development	October	1
ADAMHA, Individual Postdoctoral Fellowships	October	1
ADAMHA, Institutional Training Grants, NRSA	October	1
ADAMHA, Research Grants, New	November	1
ADAMHA/NIH/NCHSR, Research on Digestive Diseases: Research Grants	November	1
NIA, Studies on Exercise Physiology and Aging	November	1
NIAAAA/NIDA/NIMH, Institutional NRSA Training	October	1
NIDA/NIAAAA, Community Prevention Research in Alcohol and Drug Abuse	November	1
NIDA, Drug Abuse Prevention Research	November	1
NIMH, Research Support Programs	November	1
Small Grant Program (with NIAAAA and NIDA)	Open	
Small Business Innovation Research (with other PHS agencies)	August	1
Grants for Mental Health Service System Research	November	1
Geriatric Mental Health Academic Awards	November	1
Preventive Intervention Research Centers (PIRC)	November	1
Rape Center	November	1

Prevention Research Branch	November	1
New Investigator Research Award (NIRA) in Prevention (with NIAAA and NIDA)	November	1
Clinical Research Centers on Psychopathology of the Elderly	November	1
Clinical Investigator Award	November	1
Physician Scientist Award	November	1
Autism and Related Behavioral Disorders (with NINCDS)	November	1
Studies on Obesity (with NIH Institutes)	November	1
Support for Child and Adolescent Mental Health Research and Research Training	November	1
Research on Mental Illness in Nursing Homes	November	1
Research Grants on the Prevention of Alcohol, Drug Abuse, and Mental Health (ADM) Disorders at the Worksite (with NIAAA and NIDA) AA-85-02	November	1
Service System and Economic Research Programs	November	1
Assessment of Mental Health Problems in Disaster Victims MH-86-03	November	1
Prevention Research on Mutual Support Approaches with Bereaved Populations MH-86-05	November	1
Research on Family Stress and the Care of Alzheimer's Disease Victims MH-86-07	November	1
Methods for Studying Mental Health Services	November	1
Support Approaches with Bereaved Populations	November	1
NIMH, MH-84-01, Research Support Programs: Neurosciences, Behavioral Sciences, Epidemiologic, Clinical Assessment and Etiological, Treatment, Prevention and Service Research New Regular Research Grants	November	1
NIMH, Support for Child and Adolescent Mental Health Research and Research Training: Research Grants	November	1
NIMH, Geriatric Mental Health Award	November	1
NIMH, Clinical Investigator Award	November	1
NIMH, Research Grants Program	November	1
NIMH, Physician Scientist Award	November	1
NIMH, Antidepressant Drugs in the Treatment of Anxiety Disorders	November	1
NIMH/NIDA, Research on Obesity	November	1
NIMH/NINCDS, Autism and Related Behavioral Disorders	November	1
NIMH, Clinical Research Centers on Psychopathology of the Elderly	November	1
NIMH, Research on Mental Illness in Nursing Homes	November	1

## CENTERS FOR DISEASE CONTROL

Cooperative Agreement for a Project to Promote Implementa- tion of the Model Standards: A Guide for Community Preventative Health Services		FY85
Cooperative Agreement for a Project to Examine the State of the Art in Public Health and to Formulate Policy Options Related to the Future Roles, Functions, Organization, Research and Data Needs, and Manpower Implications for Public Health in General and for State and Local Health Departments in Particular		FY85
Physician Laboratories Improvement	July	15
Research and Demonstrations Relating to Occupational Safety and Health - (SERCA Grants and Small Grants)	November	1
	October	1

## DEPARTMENT OF EDUCATION

Office of Postsecondary Education, Closing Date for Transmittal of Requests for Designation as an Eligible Institution for FY86	July	1
Secretary's Discretionary Program for Mathematics, Science, Computer Learning, and Critical Foreign Languages	July	12
OPE, Training Program for Special Programs Staff and Leadership Personnel	July	19
OSERS, National Institute of Handicapped Research, Fellowship Programs	July	22
Regional Educational Laboratories and Research and Development Centers	August	15

## HEALTH CARE FINANCING ADMINISTRATION

Medicare and Medicaid Programs, Health Care Financing Research and Demonstration Cooperative Agreements and Grants (Waiver-only and discretionary funds awards)	November	4
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## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Advanced Nurse Training Grants	November	1
Nurse Practitioner Training Grants	November	1
Nursing Special Project Grants	November	1
Maternal and Child Health (MCH) Projects Training Research	August	1
National Research Service Awards - Institutional Grants	October	1
Competing Cooperative Agreements for Area Health Education Center Programs	December	14

## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
NCHSR Extramural Research	November	1

## NATIONAL INSTITUTE OF EDUCATION

Planning Grants and Institutional Grants for Educational Research and Development Centers: Institutional Grants	August	15
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## OFFICE OF ADOLESCENT PREGNANCY

Grants for National Demonstrations of Adolescent Family Life Programs	July	8
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## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Programs	Open	
Small Business Innovation Research. Contact Mr. Roland Tibbetts or Mr. Ritchie Coryell, Division of Industrial Science and Technological Innovation (202) 357-7527	July	15
VLSI (Very Large Scale Integration) Fast Turnaround Fabrication Service for Universities (NSF 83-43). Contact Dr. Andrew Molnar, Directorate for Science and Engineering Education (202) 357-7539	August	1
Ethics and Values in Science and Technology (NSF 83-62). Formal proposals. Contact Dr. Rachelle Hollander, Division of Research Initiation and Improvement (202) 357-7552	August	1
Special Research Initiation Awards for New Investigators in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572	August	7
Teacher Enhancement and Informal Science Education		
Presidential Awards for Excellence in Science and Mathematics Teaching	Open	
Informal Science Education	August	1
Science and Mathematics Education Networks	August	1
Leadership Activities for Precollege Teachers	August	15
Local and Regional Teacher Development	August	15
U.S.-United Kingdom Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September	1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September	1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September	1
Engineering Research Centers	September	3
U.S.-Austria Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September	15
U.S.-Federal Republic of Germany Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September	15

Cooperative Science Activities with Denmark, the Netherlands, and Norway (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September 15
U.S.-Finland Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-Sweden Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-Spain Cooperative Program in Basic Sciences (NSF 84-10). Proposals for cooperative research, joint seminars, exchange of scientists, and short term visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-India Exchange of Scientists (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September 15
Coordinated Experimental Research (NSF 83-60). Limited to Ph.D.-granting institutions with research programs in computer science and engineering. Contact Dr. W. Richards Adrion, Division of Computer Research (202) 357-7375	September 16
U.S.-Australia Cooperative Science (NSF 81-49, as revised Jan. 1982). For seminars, cooperative research projects in which reciprocal (exchange) visits are proposed, and visits by Australians to the United States (i.e. no cost to NSF) only, for requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October 1
U.S.-New Zealand Cooperative Science (NSF 81-50). Proposals for projects with requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October 1
NATO Advanced Study Institute Travel Awards	November 1
NATO Postdoctoral Fellowships in Science	November 1

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Climate Dynamics. Contact Dr. Thomas Crowley, Division of Atmospheric Sciences (202) 357-9892	August 1
Developmental Neurosciences (NSF 84-9). Contact Dr. Jean Lauder, Division of Behavioral and Neural Sciences (202) 357-7042	August 1
Integrative Neural Systems (NSF 84-9). Contact Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (202) 357-7040	August 1
Linguistics (NSF 84-9). Contact Dr. Paul Chapin, Division of Behavioral and Neural Sciences (202) 357-7696	August 1
Memory and Cognitive Processes (NSF 84-9). Contact Dr. Joseph Young, Division of Behavioral and Neural Sciences (202) 357-9898	August 1

Sensory Physiology and Perception (NSF 84-9). Contact Dr. James Larimer, Division of Behavioral and Neural Sciences (202) 357-7428	August	1
Decision and Management Science. Contact Dr. Trudi Miller, Division of Social and Economic Science (202) 357-7569	September	1
Economics. Contact Dr. James Blackman, Dr. Daniel Newlon, Dr. Lynn Pollnow, or Dr. James Slaugh, Jr., Division of Social and Economic Science (202) 357-9675	September	1
Geography and Regional Science. Contact Dr. Ronald Abler, Division of Social and Economic Science (202) 357-7441	September	1
History and Philosophy of Science. Contact Dr. Ronald Overmann or Ms. Bonney Sheahan, Division of Social and Economic Science (202) 357-9677	September	1
Law and Social Sciences. Contact Dr. Felice Levine or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-9567	September	1
Oceanographic Instrumentation. Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	September	1
Shipboard Scientific Support Equipment. Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	September	1
Arctic Research (NSF 82-33). For arctic summer beginning March 1, 1986. Contact Mr. Guy Guthridge, Division of Polar Programs (202) 357-7766	September	1
Ocean Sciences Instrumentation Development. Request the brochure "Proposals for Ocean Sciences Instrumentation Development," from Mr. H. Lawrence Clark, Division of Ocean Sciences (202) 357-7837	September	1
Measurement Methods and Data Improvement. Contact Dr. Murray Aborn or Dr. Sara Nerlove, Division of Social and Economic Science (202) 357-7913	September	1
Political Science. Contact Dr. Frank Scioli, Jr., Division of Social and Economic Science (202) 357-7534	September	1
Regulation and Policy Analysis. Contact Dr. Laurence Rosenberg, Division of Social and Economic Science (202) 357-7417	September	1
Sociology. Contact Dr. Joanne Miller, Dr. Thomas Guterbock, or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-7802	September	1
Sub-Saharan Africa Cooperative Science (NSF 84-26). Contact Mr. Robert Bell, Division of International Programs (202) 357-9550	September	1
Science in Developing Countries. Contact Sub-Saharan Africa: Mr. Robert Bell (202) 357-9550; North Africa and Turkey: Mr. Francis Field (202) 357-9402; South and West Asia: Dr. Osman Shinaishin (202) 357-9402; East Asia: Dr. Gordon Hiebert (202) 357-9537; and Latin America and Caribbean: Ms. Christine French, Division of International Programs (202) 357-9563	September	1
U.S.-East Asia Cooperative Science (NSF 83-50). Indonesia, Malaysia, Singapore, Thailand. Contact Dr. Gordon Hiebert, Division of International Programs (202) 357-9537	September	1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	September	30

Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	September 30
Materials Development and Research	
Instructional Materials Development	October 1
Materials and Methods for Teacher Preparation	October 1
Applications of Advanced Technologies	October 1
Research in Teaching and Learning	October 1
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	October 1
Doctoral Dissertation Research in Biotic Systems and Resources. Contact Dr. James Edwards, Division of Biotic Systems and Resources (202) 357-9588	October 1
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	October 1
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	October 1
Productivity Improvement Research (NSF 84-16). Contact Dr. J. D. Eveland, Dr. William Hetzner, or Dr. E. C. Johnson, Division of Industrial Science and Technological Innovation (202) 357-9804	October 1

## DEPARTMENT OF COMMERCE

National Bureau of Standards; Center for Manufacturing Engineering, Automated Manufacturing Research Facility (AMRF) Research Grants Program	Open
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## DEPARTMENT OF DEFENSE

Office of Naval Research	
Strategic Defense Initiative	Open
Young Investigator Program	Open
Strategic Defense Initiative Innovative Science and Technology Office	Open
U.S. Air Force	
University Resident Research Program	Open

## DEPARTMENT OF ENERGY

Office of Energy Research	Open
Special Research Grants Programs	Open
Toroidal Support Experimental Program	September 1

## DEPARTMENT OF JUSTICE

Office of Juvenile Justice and Delinquency Prevention Research and Program Development Programs	Open
National Institute of Justice Visiting Fellowships	November 15

## DEPARTMENT OF STATE

U.S./Spain Joint Committee for Science/Technology October 1

## ENVIRONMENTAL PROTECTION AGENCY

Environmental Protection-Consolidation Research Open  
Air Pollution Control Research Grants Open  
Pesticides Control Research Open  
Solid Waste Disposal Research Open  
Water Pollution Control-Research, Development, and  
Demonstration Grants Open  
Safe Drinking Water Research and Demonstration Toxic  
Substances Research Open

## NATIONAL ENDOWMENT FOR THE ARTS

U.S./French Exchange Program: Deadline varies with  
Discipline Various  
Museum No Deadline  
Special Projects No Deadline  
Media Arts Program  
Radio Projects July 20  
AFI Independent Filmmaker Awards September 14  
Programming in the Arts September 30  
Opera-Musical Theater  
New American Works/Producer Grants September 16  
Special Projects-Other September 16

## NATIONAL ENDOWMENT FOR THE HUMANITIES

Humanities Projects in Libraries September 6  
Basic Research Program: Research Conferences September 15

## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts  
Visiting Senior Fellowships and Associates  
(For 3/1/86-8/31/86) September 21  
Senior Fellowship Program October 15

## SOCIAL SECURITY ADMINISTRATION

Research Grants July 29  
Demonstration Projects July 29

## U.S. INFORMATION AGENCY

Bureau of Educational and Cultural Affairs October 15  
1986-87 Fulbright Teacher Exchange Program October 15



## NONFEDERAL

Advanced Technology Innovative Inc.	July 12
AEtna Life and Casualty Co.	Open
American Chemical Society - Petroleum Research Fund Grants-in-Aid	No Deadline
American Diabetes Association	September 15
American Philosophical Society	August 1
American Philosophical Society Grants-in-Aid	Various--Contact ORA
Andrew W. Mellon Foundation	No Deadline
Bosch Foundation Fellowship Program	No Deadline
Brown Foundation	No Deadline
Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)	No Deadline
Canadian Embassy - Institutional Research Grant	September 15
Carnegie Corporation	No Deadline
Center for Field Research (Earthwatch) Latin America Field Research Grants	No Deadline
Council of Foreign Relations - Fellowship Program	September 15
Cystic Fibrosis Foundation Research Scholar Awards	September 1
New Investigator Research Grants	September 1
Research Grants	September 1
Research Fellowships	September 1
Clinical Fellowships	October 1
Student Traineeships	October 1
Damon Runyon Walter Winchell Cancer Fund Fellowship Grants	August 15
Human Cancer-Directed Fellowship Grants	August 15
Dana Foundation	No Deadline
Deafness Research Foundation	July 15
Delta Society	September 15
Easter Seal Research Foundation	August 1
Edna McConnell Clark Foundation	No Deadline
Engineering Foundation (Pre-proposals)	No Deadline
Epilepsy Foundation of America Clinical Research Fellowships	September 1
Research Grant Application	September 1
Exxon Education Foundation	No Deadline
Ford Foundation	No Deadline
Gas Research Foundation Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
General Motors Foundation	No Deadline
German Marshall Fund Short-Term Travel Awards	No Deadline
Hewlett Foundation	No Deadline
Houghton Mifflin Literary Fellowships	No Deadline
Hudson River Foundation	September 5
International Foundation of Employee Benefit Plans Postdoctoral Grants-in-Aid	Open
Jessie B. Cox Charitable, Trust	July 15
Kaiser Family Foundation	No Deadline
Kaltenborn Foundation Grants for Scholarly Studies in Communication	Open
Kellogg Foundation Expanding Opportunities for Adult Continuing Education	Continuous

Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
Kennedy Center Friedheim Awards	July 15
Leukemia Society of America	
Scholar Program	September 1
Special Fellow Program	September 1
Fellow Program	September 1
Lighting Research Institute	July 15
Lilly Endowment	No Deadline
MacArthur Foundation	
International Security Program	Open
Peace Fellowships	July 31
March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Clinical (Abstract by May 15)	August 1
Social and Behavioral Sciences (Abstract by May 1)	September 1
Basic Research	October 1
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
Small Grant	No Deadline
Minnesota State Arts Board	
Expansion Arts	October 14
Visual Arts	November 1
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
National Geographic Society	
Grants-in-Aid	No Deadline
National Kidney Foundation	October 1
National Multiple Sclerosis Society	
Research Grants	August 1
Pew Memorial Trust	Continuous
Pfizer Postdoctoral Fellowship Program	November 1
Puritan Bennett Foundation (formerly Parker B. Frances Foundation)	
Fellowships in Pulmonary Research	September 15
Research Corporation	
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline
Rockefeller Brothers Fund, Inc.	No Deadline
Rockefeller Foundation	
Research on the Genetic Engineering of Rice	Open
Gender Roles Program	September 15
Sloan Foundation	No Deadline
Southeastern Poultry and Egg Association	No Deadline
Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial Instrumentation	
Pre-proposals	No Deadline
Thrasher Research Fund	
Grants and Nutrition, Infectious Diseases, Health Promotion	No Deadline

University Genetics Company (UGEN)  
Upjohn Institute for Employment Research  
Villers Foundation

No Deadline  
September 20  
No Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

MKC  
J Spohn

# ORRDC Newsletter

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VOLUME XV/NO. 2

## NEW STAFF JOIN ORTTA

Mr. Rick Dunn has joined the ORTTA, Grants and Contracts Division, as a Senior Grant Administrator. For the past six and a half years, Mr. Dunn has been employed as the Director, Indian Upward Bound, in the College of Education. His experience directing this federally funded program will be of considerable benefit to ORTTA and other units engaged in sponsored programs. Mr. Dunn can be contacted at 373-2129.

Mr. Steve Pheneger has joined the ORTTA, Information Services Division. He will assist in the management, organization, and presentation of information on sponsored research and training activity at the University. Mr. Pheneger was previously employed by the State of Minnesota as a Research Assistant in the Department of Energy and Economic Development. Mr. Pheneger can be contacted at 376-7359.

## INDIRECT COST RATES

Because the federal government has not yet reviewed our indirect cost proposal for 1985-86, we have been issued provisional rates to be used until such time as a review is made. The provisional rates are the same as the 1984-85 rates and should be used until further notice (see below). We anticipate the new rates for 1985-86 will be finalized by October 1 and will be effective July 1, 1985.

Campus Rates	On Campus	Off Campus
Research	41.0	22.7
Instruction (Training)	82.6	57.2
Other Sponsored Agreements	25.2	14.8
Hormel Institute	57.9	N/A
S.A.F.H.L.	96.6	N/A

## MORATORIUM ON ACCEPTANCE OF PROGRAM PHYSICIAN SCIENTIST AWARD APPLICATIONS-NIADDK

Beginning with the October 1, 1985 application receipt date, the National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases (NIADDK) will no longer accept new or amended applications for Program Physician Scientist Awards. It is hoped that competing applications can again be accepted

for review and possible funding at a future time. Applications for individual Physician Scientist Awards will continue to be accepted by NIADDK.

## RESEARCH ON ALCOHOLISM AND ALCOHOL-RELATED PROBLEMS

The National Institute on Alcohol Abuse and Alcoholism provides grant support to develop knowledge related to two broad objectives: (1) to reduce the incidence and prevalence of alcohol abuse and alcoholism, and (2) to reduce the morbidity and mortality associated with alcohol use, alcohol abuse and alcoholism. The Institute supports basic and applied research dealing with the mechanisms of actions of alcohol on mental and physical processes and invites applications for research grants on (1) biomedical, behavioral, clinical, sociocultural, and epidemiological factors associated with the use or abuse of alcohol, (2) the consequences of alcohol abuse, and (3) the prevention and treatment of alcohol-related health problems. Further information can be obtained by contacting ORTTA at 376-7353.

## STUDY OF INMATE POPULATION IN CORRECTIONAL INSTITUTIONS

The United States Bureau of Prisons is encouraging the study of the inmate population at the Federal Correctional Institution at Sandstone, Minnesota. Interested researchers at the University of Minnesota are urged to contact R. G. Milligan, Ph.D., Chairman, Institution Research Committee, Federal Correctional Institution, Sandstone, MN 55972 regarding details for proposing a study in this area of investigation.

## CANADIAN STUDIES GRANT PROGRAMMES 1986

The Government of Canada has announced the availability of funding for research initiatives by American academics and academic institutions. Copies of the guidelines for the following five Canadian studies programs can be obtained by contacting ORTTA at 376-7353: Faculty Enrichment Programme; Senior Fellow Award; Graduate Student Fellowship Programme; Faculty Research Grant Programme; Institutional Research Grant Programme.

## JOHN A. HARTFORD FOUNDATION

The John A. Hartford Foundation has announced an initiative aimed at improving the prescription, monitoring, and utilization of medications among the elderly. The goal of the program is to stimulate the development of effective programs that result in the reduction of drug-related problems among the elderly and that have good potential for widespread implementation. For a copy of the brochure describing this program and the application procedures, contact ORTTA at 376-7353.

## PMA FOUNDATION RESEARCH STARTER GRANTS FOR 1986

The Pharmaceutical Manufacturers Association Foundation offers financial support to individuals beginning their independent research careers at the faculty level. The areas of interest within this program are research efforts in the fields of pharmacology, pharmacology-morphology, clinical pharmacology, drug toxicology, and research to develop and extend the general principles of pharmaceuticals. The program provides a research grant of \$7,750 per year for two

years, with the second year of support contingent upon a continuing need for the funds. For a copy of the application procedures, contact ORTTA at 376-7353.

## AMERICAN CANCER SOCIETY (ACS) INSTITUTIONAL RESEARCH GRANT AWARD

The University of Minnesota has been awarded a renewal of its Institutional Research grant from the ACS for 1985-1986. This fund is intended to serve as "seed" money permitting the initiation of promising new projects or novel ideas, especially by junior investigators, in cancer-related research. Encouragement of cancer research may also be facilitated by support of seminars on cancer-related topics, and by graduate student research. The fund is administered by a Dean's Committee of the Medical School with representation from other biologically-oriented colleges. The Committee is now accepting applications for individual grants not to exceed \$7,500 from this fund. Instructions and application forms may be obtained from the Dean's Committee for the ACS Institutional Research Grant, Room 421 Masonic Cancer Center, 373-4318. Deadline: October 1, 1985.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORTTA CONTACT NUMBERS FOR DEADLINE/PROGRAM INFORMATION ARE 376-7358 OR 376-7359.

## FEDERAL

### NATIONAL INSTITUTES OF HEALTH

#### NIH

NIH	Fogarty International Center, Eastern European Scientist Exchange Program, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
NIH	Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
NIH	Fogarty, Senior International Fellowship Program	October	1
NIH	National Research Service Awards for Senior Fellows	October	1
NIH	National Research Service Awards for Individual Postdoctoral Fellows	October	1
NIH	National Research Service Award Institutional Grants	October	1
NIH	NMR Resources, Biotechnology Resources Program	October	1
NIH	Research Grants, Renewals	October	1
NIH	Research Career Development Awards	October	1
NIH	Individual Postdoctoral Fellowships	October	1
NIH	Institutional Training Programs	October	1

NIH	Research Grants, New	November	1
NIH	New Investigator Awards	November	1
NIH	National Research Service Awards for Short-term Training: Students in Health Professional Schools	February	1
<b>NCI</b>			
NCI	Preventive Oncology Academic Award (Limited to one non-renewable, five-year project period, award <u>for</u> <u>each</u> : School of Medicine, Osteopathy, Dentistry, Public Health)	September	1
NCI	85-CA-13, Clinical Evaluation of Models of Biochemical Modulation	September	15
NCI	Preventive Oncology Academic Award	October	1
NCI	Comprehensive Minority Biomedical Program - Minority Satellite Supplement	October	1
NCI	Comprehensive Minority Biomedical Program - Minority Investigator Supplement	October	1
NCI	Cancer Education Program	October	1
NCI	85-CA-19, Differentiating Agents in Human Malignancies (letter of intent by 8/15/85)	October	15
NCI	NIAID/NIADDK/NICHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases: Research Grants	November	1
NCI	Biochemistry and Pharmacology Program	November	1
NCI	Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	November	1
NCI	Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	November	1
NCI	Prediction of Tumor Response to Radiation Therapy	November	1
NCI	Medical Imaging for Diagnosis and Treatment of Cancer	November	1
NCI	Research on Biological Response Modifiers	November	1
NCI	Cancer Control Science Associates Program	November	22
<b>NEI</b>			
NEI	Small Grants Program for Pilot Projects	October	1
NEI	NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	October	1
NEI	Causes and Prevention of Myopia	November	1
NEI	Research on Basic Mechanisms of Retinal Phototoxicity	November	1
NEI	Molecular Research in Strabismus, Amblyopia, and Visual Processing	November	1
<b>NHLBI</b>			
NHLBI	RFA-85-HL-01-1-L, Specialized Centers of Research Concerned with Respiratory Disorders of Neonates and Children/National Research and Demonstration Centers for Respiratory Disorders of Neonates and Children	September	2
NHLBI	RFA-85-HL-10-H, Specialized Centers of Research in Arteriosclerosis (SCOR-A) and National Research and Demonstration Centers in Arteriosclerosis (NRDC-A)	September	16
NHLBI	Career Development Programs for Physicians in Cardiac and Vascular Research in Cerebrovascular Disease	October	1
NHLBI	Research Career Development Award: Basic Science Related to the Respiratory System	October	1

NHLBI	Research Training and Development Area:		
	National Research Service Award Programs		
	Institutional Research Training Grant Award	October	1
	Individual Postdoctoral Fellowship Award	October	1
	Senior Research Fellowship Award	October	1
	Research Career Development Programs		
	Research Career Development Award	October	1
	Clinical Investigator Award	October	1
	Physician Scientist Award	October	1
	Special Emphasis Research Career Award: Diabetes Mellitus	October	1
NHLBI	Transfusion of Medicine Academic Award	October	15
NHLBI	Demonstration and Education Research Related to Pulmonary Disease	November	1
NHLBI	Arrhythmia Detection and Discrimination from Electrograms	November	1
NHLBI	Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young	November	1
NHLBI	Minimally Invasive Measurement of Blood Pressure in the Heart and Central Arteries	November	1
NHLBI	Development of Genetic Hypertensive Animal Models	November	1
NHLBI	Blood Transfusion and Cytomegalovirus Infection	November	1
NHLBI	Surfactants for Perflurochemicals	November	1
NHLBI	Research in Sickle Cell Disease: Pain Management in Sickle Cell Disease	November	1
NHLBI	RFA-85-HL-02-L, Specialized Centers of Research and National Research and Demonstration Centers: Chronic Diseases of the Airways/Occupational and Immunological Lung Diseases/Pulmonary Vascular Diseases	December	2
NHLBI	85-HL-27-H, Molecular Characterization of Ion Channels in the Myocardial Sarcolemma (letter of intent - 8/15/85)	December	16
NHLBI	85-HL-28-L, Alpha-1-Protenase Inhibitor Deficiency and Emphysemia-Molecular Studies	December	16

## NIA

NIA	Health Behaviors and Aging: Behavioral Geriatrics Research	October	1
NIA	NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	October	1
NIA	NIAID/NIADDK/NICHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	October	1
NIA	Complementary Training Awards for Research on Aging	October	1
NIA	Aging and Visual Perception		
	Postdoctoral Fellow	October	1
	Program Project	October	1
	Others	October	1
	Research Project Grant	November	1
	New Investigator Award	November	1
NIA	The Oldest Old:		
	Program Project Grants	October	1
	Individual Postdoctoral Fellowships	October	1
	Research Grants	November	1
	New Investigator Awards	November	1
NIA	Studies on Exercise Physiology and Aging	November	1



NIA	Molecular Biological and Genetic Basis of Aging	November	1
NIA	Geriatric Leadership Academic Award	November	1
NIA	Social Environments Influencing Health and Functioning in Later Years	November	1
<b>NIADDKD</b>			
NIADDK	NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NIADDK	Use of New Techniques to Study Metabolic Processes and Diseases	November	1
NIADDK	Dominantly Inherited Polycystic Kidney Disease	November	1
NIADDK	NICHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	November	1
NIADDK	NIA/NIAID/NICHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	November	1
NIADDK	NIAID/NCI/NICHHD/NIGM, Liver Transplantation Research	November	1
<b>NIAID</b>			
NIAID	Minority Research Enhancement Program	Open	
NIAID	85-AI-05, Studies of Acquired Immunodeficiency Syndrome	September	15
NIAID	Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
	Career Development	October	1
	Physician Scientist	October	1
	Clinical Investigator	October	1
	Postdoctoral Fellow	October	1
	New Grants	November	1
	New Investigator	November	1
NIAID	Asthma and Allergic Disease Centers for Immuno- dermatologic Studies	October	15
NIAID	Centers: Asthma and Allergic Disease/Immuno- dermatologic Diseases (Letter of intent by 7/15/85)	October	15
NIAID	Centers for Interdisciplinary Research on Immunologic Diseases (Letter of intent by 7/15/85)	October	15
NIAID	Human Papilloma Viruses and Genital Warts	November	1
NIAID	Mechanisms of Action of the Drug Cyclosporine	November	1
NIAID	NINCDS/NIA, Persistent Viral Infections - Alzheimer's Disease	November	1
<b>NICHD</b>			
NICHD	85-HD-10, Defining and Subtyping Dyslexia	September	15
NICHD	85-HD-11, Mechanisms of Immunologic Infertility	October	15
NICHD	CRMC-85-14, Ethnic Differences in Life Style, Psychological Factors and Medical Care During Pregnancy	October	25
NICHD	Physical Activity in Pregnancy	November	1
NICHD	NHLBI, Hypertension in Pregnancy	November	1
<b>NIDR</b>			
NIDR	Small Grant Program	October	1
NIDR	Dentist Scientist Award	October	1

## NIEHS

NIEHS	NIH-ES-85-11, Studies of Chemical Disposition in Mammals	September	24
NIEHS	Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	October	1
NIEHS	Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	October	1
NIEHS	Specialized Centers of Research in Genetic Toxicology	October	1
NIEHS	NIADDK, Effect of Environmental Agents on the Endocrine System	November	1

## NIGMS

NIGMS	Minority Programs, Minority Biomedical Support and Minority Access to Research Careers	October	1
NIGMS	Cellular and Molecular Basis of Disease Research	November	1
NIGMS	Physiology and Biomedical Engineering	November	1
NIGMS	Genetics Research	November	1
NIGMS	Pharmacological Sciences	November	1
NIGMS	Shared Instrumentation Grants	February	15

## NINCDS

NINCDS	Clinical Investigator Development Award	October	1
NINCDS	Speech and/or Language Disorders in Children Individual Postdoctoral Fellowships	October	1
NINCDS	Research Grants Related to Basic Mechanisms in the Phakomatosis	November	1
NINCDS	Osteosclerosis and Early Progressive Deafness	November	1
NINCDS	Research Grants on Status Epilepticus	November	1
NINCDS	Research Grants on Basic Mechanisms of the Epilepsies	November	1
NINCDS	NIMH, Autism and Related Behavioral Disorders	December	1

## NIOSH

NIOSH	Research and Demonstrations Relating to Occupational Safety and Health:		
	Special Emphasis Research Career Award	October	1
	Small Grant Program	October	1
	Research Grants	November	1
	Demonstration Grants	November	1
	Program Project Grants	November	1

## NLM

NLM	Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	November	1
NLM	Investigator-Initiated Research Grants/New Investi- gator Research Awards	November	1

## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA, Individual Postdoctoral Fellowships	October	1
ADAMHA, Institutional Training Grants, NRSA	October	1
ADAMHA, Research Grants, New	November	1
ADAMHA/NIH/NCHSR, Research on Digestive Diseases:		
Research Career Development	October	1
Research Grants	November	1
NIAAA/NIDA/NIMH, Institutional NRSA Training	October	1
NIDA/NIAAA, Community Prevention Research in Alcohol and Drug Abuse	November	1
NIDA, Drug Abuse Prevention Research	November	1
NIMH, Research Support Programs	November	1
Small Grant Program (with NIAAA and NIDA)	Open	
Grants for Mental Health Service System Research	November	1
Geriatric Mental Health Academic Awards	November	1
Preventive Intervention Research Centers (PIRC)	November	1
Rape Center	November	1
Prevention Research Branch	November	1
New Investigator Research Award (NIRA) in Prevention (with NIAAA and NIDA)	November	1
Clinical Research Centers on Psychopathology of the Elderly	November	1
Clinical Investigator Award	November	1
Physician Scientist Award	November	1
Autism and Related Behavioral Disorders (with NINCDS)	November	1
Studies on Obesity (with NIH Institutes and NIDA)	November	1
Support for Child and Adolescent Mental Health Research and Research Training	November	1
Research on Mental Illness in Nursing Homes	November	1
AA-85-02, Research Grants on the Prevention of Alcohol, Drug Abuse, and Mental Health (ADM) Disorders at the Worksite (with NIAAA and NIDA)	November	1
Service System and Economic Research Programs	November	1
MH-86-03, Assessment of Mental Health Problems in Disaster Victims	November	1
MH-86-05, Prevention Research on Mutual Support Approaches with Bereaved Populations	November	1
MH-86-07, Research on Family Stress and the Care of Alzheimer's Disease Victims	November	1
MH-84-01, Research Support Programs: Neurosciences, Behavioral Sciences, Epidemiologic, Clinical Assessment and Etiological, Treatment, Prevention and Service Research New Regular Research Grants	November	1
Support for Child and Adolescent Mental Health Research and Research Training: Research Grants	November	1
Research Grants Program	November	1
Antidepressant Drugs in the Treatment of Anxiety Disorders	November	1
Clinical Research Centers on Psychopathology of the Elderly	November	1
MH-86-06, Research on Method for Studying Mental Health Service Systems	November	1

## CENTERS FOR DISEASE CONTROL

Cooperative Agreement for a Project to Promote Implementa-  
tion of the Model Standards: A Guide for Community  
Preventative Health Services

FY85

Cooperative Agreement for a Project to Examine the State of the Art in Public Health and to Formulate Policy Options Related to the Future Roles, Functions, Organization, Research and Data Needs, and Manpower Implications for Public Health in General and for State and Local Health Departments in Particular

FY85

Research and Demonstrations Relating to Occupational Safety and Health -  
(SERCA Grants and Small Grants)

November 1  
October 1

## DEPARTMENT OF EDUCATION

Regional Educational Laboratories and Research in Development Centers

August 15

Library Career Training Program for FY86

September 16

High School Equivalency Program

September 19

College Assistance Migrant Program

September 19

OSERS-

Training Personnel for the Education of the Handicapped -  
(Continuation Applications)

August 30

Preparation of Leadership Personnel

September 6

Special Projects

September 6

Preparation of Personnel to Provide Special Education and Related Services to Newborn and Infant Handicapped Children

September 6

Preparation of Personnel to Work in Rural Areas

September 6

Preparation of Personnel for Minority Handicapped Children

September 6

Preparation of Special Educators

November 15

Preparation of Related Services Personnel

November 15

## HEALTH CARE FINANCING ADMINISTRATION

Medicare and Medicaid Programs, Health Care Financing Research and Demonstration Cooperative Agreements and Grants (Waiver-only and discretionary funds awards)

November 4

## HEALTH RESOURCES AND SERVICES ADMINISTRATION

National Research Service Awards - Institutional Grants

October 1

Advanced Nurse Training Grants

November 1

Nurse Practitioner Training Grants

November 1

Nursing Special Project Grants

November 1

Competing Cooperative Agreements for Area Health Education Center Programs

December 14

## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)

Open

NCHSR Extramural Research

November 1

## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Programs	Open
Teacher Enhancement and Informal Science Education	
Presidential Awards for Excellence in Science and Mathematics Teaching	Open
Leadership Activities for Precollege Teachers	August 15
Local and Regional Teacher Development	August 15
U.S.-United Kingdom Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 1
U.S.-India International Travel Support (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September 1
U.S.-Pakistan International Travel Support (NSF 80-49). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September 1
Engineering Research Centers	September 3
U.S.-Austria Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September 15
U.S.-Federal Republic of Germany Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September 15
Cooperative Science Activities with Denmark, the Netherlands, and Norway (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September 15
U.S.-Finland Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-Sweden Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-Spain Cooperative Program in Basic Sciences (NSF 84-10). Proposals for cooperative research, joint seminars, exchange of scientists, and short term visits. Contact the Division of International Programs (202) 357-7554	September 15

U.S.-India Exchange of Scientists (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September 15
Coordinated Experimental Research (NSF 83-60). Limited to Ph.D.-granting institutions with research programs in computer science and engineering. Contact Dr. W. Richards Adrion, Division of Computer Research (202) 357-7375	September 16
U.S.-Australia Cooperative Science (NSF 81-49, as revised Jan. 1982). For seminars, cooperative research projects in which reciprocal (exchange) visits are proposed, and visits by Australians to the United States (i.e. no cost to NSF) only, for requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October 1
U.S.-New Zealand Cooperative Science (NSF 81-50). Proposals for projects with requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October 1
NATO Advanced Study Institute Travel Awards	November 1
NATO Postdoctoral Fellowships in Science	November 1

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Decision and Management Science. Contact Dr. Trudi Miller, Division of Social and Economic Science (202) 357-7569	September 1
Economics. Contact Dr. James Blackman, Dr. Daniel Newlon, Dr. Lynn Pollnow, or Dr. James Slaugh, Jr., Division of Social and Economic Science (202) 357-9675	September 1
Geography and Regional Science. Contact Dr. Ronald Abler, Division of Social and Economic Science (202) 357-7441	September 1
History and Philosophy of Science. Contact Dr. Ronald Overmann or Ms. Bonney Sheahan, Division of Social and Economic Science (202) 357-9677	September 1
Law and Social Sciences. Contact Dr. Felice Levine or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-9567	September 1
Oceanographic Instrumentation. Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	September 1
Shipboard Scientific Support Equipment. Contact Mr. Ronald LaCount, Division of Ocean Sciences (202) 357-7837	September 1
Arctic Research (NSF 82-33). For arctic summer beginning March 1, 1986. Contact Mr. Guy Guthridge, Division of Polar Programs (202) 357-7766	September 1
Ocean Sciences Instrumentation Development. Request the brochure "Proposals for Ocean Sciences Instrumentation Development," from Mr. H. Lawrence Clark, Division of Ocean Sciences (202) 357-7837	September 1
Measurement Methods and Data Improvement. Contact Dr. Murray Aborn or Dr. Sara Nerlove, Division of Social and Economic Science (202) 357-7913	September 1
Political Science. Contact Dr. Frank Scioli, Jr., Division of Social and Economic Science (202) 357-7534	September 1

Regulation and Policy Analysis. Contact Dr. Laurence Rosenberg, Division of Social and Economic Science (202) 357-7417	September 1
Sociology. Contact Dr. Joanne Miller, Dr. Thomas Guterbock, or Ms. Dorothy Greene, Division of Social and Economic Science (202) 357-7802	September 1
Sub-Saharan Africa Cooperative Science (NSF 84-26). Contact Mr. Robert Bell, Division of International Programs (202) 357-9550	September 1
Science in Developing Countries. Contact Sub-Saharan Africa: Mr. Robert Bell (202) 357-9550; North Africa and Turkey: Mr. Francis Field (202) 357-9402; South and West Asia: Dr. Osman Shinaishin (202) 357-9402; East Asia: Dr. Gordon Hiebert (202) 357-9537; and Latin America and Caribbean: Ms. Christine French, Division of International Programs (202) 357-9563	September 1
U.S.-East Asia Cooperative Science (NSF 83-50). Indonesia, Malaysia, Singapore, Thailand. Contact Dr. Gordon Hiebert, Division of International Programs (202) 357-9537	September 1
Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	September 30
Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	September 30
Materials Development and Research	
Instructional Materials Development	October 1
Materials and Methods for Teacher Preparation	October 1
Applications of Advanced Technologies	October 1
Research in Teaching and Learning	October 1
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	October 1
Doctoral Dissertation Research in Biotic Systems and Resources. Contact Dr. James Edwards, Division of Biotic Systems and Resources (202) 357-9588	October 1
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	October 1
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	October 1
Productivity Improvement Research (NSF 84-16). Contact Dr. J. D. Eveland, Dr. William Hetzner, or Dr. E. C. Johnson, Division of Industrial Science and Technological Innovation (202) 357-9804	October 1

\*NSF Proposals may be submitted for the following programs at any time of the year. It takes approximately six to nine months to process a proposal. Brochures indicated in parentheses may be ordered.

U.S.-Korea Cooperative Science (NSF 83-50). Short-term visits only. Contact Dr. Gerald Edwards (202) 357-9537	*
U.S.-East Asia Cooperative Science (NSF 83-50). Short-term visits only to the Philippines and Korea. Contact Dr. Gerald Edwards (202) 357-9537	*

U.S.-East Asia Cooperative Science (NSF 83-50). Excluding Philippines and Korea. Contact Dr. Gordon Hiebert (202) 357-9537 \*

U.S.-India Cooperative Science (NSF 82-86). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402 \*

U.S.-Pakistan Cooperative Science (NSF 80-49). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402 \*

U.S.-China Cooperative Science (NSF 82-50). For information regarding field limitations contact Dr. Pierre Perrolle or Mr. Alexander DeAngelis (202) 357-7393 \*

U.S.-Belgium Cooperative Science (NSF 83-73). Cooperative research projects, joint seminars (202) 357-7554 \*

U.S.-Japan Cooperative Science (NSF 81-58). Proposals from U.S. investigators for long-term visits to spend from 6 to 12 months conducting research in Japan (202) 357-9558 \*

U.S.-Japan Program for Cooperation in Photoconversion and Photosynthesis (NSF 83-11). Letter-proposals for visits up to two weeks in Japan to plan formal research in cooperation with Japanese investigators in the areas of photoconversion and photosynthesis (202) 357-9558 \*

NSF-NATO Exchange for International Academic-Industrial Exchanges of U.S. Scientists (Double Jump). Postdoctoral program for the exchange of scientists from the academic and industrial communities of the U.S. and NATO member countries (202) 357-7554 \*

U.S.-New Zealand Cooperative Science (NSF 81-50). Letter-proposals for short-term visits (limited to air fare and up to three weeks' per diem) to develop cooperative research in physical oceanography, air/sea interaction, marine geology, geophysics or biology (marine productivity) (202) 357-9558 \*

Research in Undergraduate Institutions (NSF 83-79). Contact appropriate disciplinary program in NSF for more specific target dates and number of copies of proposals needed or contact Dr. Joseph Danek, Director of Special Projects, Division of Research Initiation and Improvement (202) 357-7456 \*

Minority Research Initiation (NSF 80-42). Contact Dr. Roosevelt Calbert (202) 357-7350 \*

Synthetic Inorganic and Organometallic Chemistry (NSF 83-57). Contact Dr. Oren Williams (202) 357-7499 \*

Synthetic Organic and Natural Products Chemistry (NSF 83-57). Contact Dr. John Showell (202) 357-7499 \*

Chemical Analysis (NSF 83-57). Contact Dr. Henry Blount, III (202) 357-7503 \*

Chemical Instrumentation (NSF 83-57). Contact Dr. John Hunt (202) 357-7960 \*

Structural Chemistry and Thermodynamics (NSF 83-57). Contact Dr. William Harris (202) 357-9826 \*

Chemical Physics (NSF 83-57). Contact Dr. William Cramer (202) 357-7951 \*

Chemical Dynamics (NSF 83-57). Contact Dr. Richard Holder (202) 357-7956 \*

Instrumentation for Materials Research (NSF 82-79). Contact Dr. William Oosterhuis (202) 357-7570 \*

National Facilities. Contact Dr. Dean Mitchell (202) 357-9791 \*



Materials Research Laboratory. Contact Dr. Adriaan de Graaf (202) 357-9791 \*

Materials Research Group. Contact Dr. W. Lance Haworth (202) 357-9791 \*

Atomic, Molecular, and Plasma Physics. Contact Dr. Rolf Sinclair (202) 357-7997 \*

Elementary Particle Physics. Contact Dr. David Berley (202) 357-9575 \*

Gravitational Physics. Contact Dr. Richard Isaacson (202) 357-7979 \*

Intermediate Energy Nuclear Physics. Contact Dr. Peter Riley (202) 357-7992 \*

Nuclear Physics. Contact Dr. William Rodney (202) 357-7992 \*

Theoretical Physics. Contact Dr. Boris Kayser (202) 357-7979 \*

Aeronomy. Contact Dr. Andrew Christensen (202) 357-7619 \*

Atmospheric Chemistry. Contact Dr. Jarvis Moyers (202) 357-9657 \*

Experimental Meteorology. Contact Dr. Richard Greenfield (202) 357-9887 \*

Global Atmospheric Research. Contact Dr. Jay Fein (202) 357-9887 \*

Meteorology. Contact Dr. Ronald Taylor (202) 357-7624 \*

Solar Terrestrial. Contact Dr. Dennis Peacock (202) 357-7618 \*

Upper Atmospheric Facilities. Contact Dr. Richard Behnke (202) 357-7390 \*

Astronomical Instrumentation and Development. Contact Dr. G. W. Van Citters, Jr. (202) 357-9793 \*

Extragalactic Astronomy. Contact Dr. James Wright (202) 357-7639 \*

Galactic Astronomy. Contact Dr. Kurt Weiler (202) 357-7620 \*

Solar System Astronomy. Contact Dr. Kurt Weiler (202) 357-7620 \*

Stars and Stellar Evolution. Contact Dr. Peter Pesch (202) 357-7622 \*

Electromagnetic Spectrum. Contact Dr. Vernon Pankonin (202) 357-9696 \*

Anthropology. Doctoral Dissertation Proposals. Contact Ms. Mary Greene, Division of Behavioral and Neural Sciences (202) 357-7804 \*

Biological Research Resources. Contact Dr. James Tyler, Division of Biotic Systems and Resources (202) 357-7475 \*

Industry/University Cooperative Research Projects (NSF 82-56). Contact Dr. Frederick Betz (202) 357-7785 or Mr. Alex Schwarzkopf (202) 357-7527, Division of Industrial Science and Technology Innovation. \*

Industry/University Cooperative Research Centers. Contact Mr. Robert Colton or Mr. Alex Schwarzkopf, Division of Industrial Science and Technological Innovation (202) 357-7527 \*

Research in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572 \*

Alternative Biological Resources (NSF 83-96). Contact Dr. H. Huang, Division of Molecular Biosciences (202) 357-9782 \*

Mathematical Sciences. Programs for disciplinary research include Classical Analysis, Modern Analysis, Geometric Analysis, Topology and Foundations, Algebra and Number Theory, Applied Mathematics, and Statistics and Probability. Contact the appropriate disciplinary program for guidelines for the submission of proposals. Division of Mathematical Sciences (202) 357-9764

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## DEPARTMENT OF COMMERCE

National Bureau of Standards; Center for Manufacturing Engineering, Automated Manufacturing Research Facility (AMRF) Research Grants Program

Open

## DEPARTMENT OF DEFENSE

Office of Naval Research

Strategic Defense Initiative

Young Investigator Program

Open

Open

Strategic Defense Initiative Innovative Science and Technology Office

Open

U.S. Air Force

University Resident Research Program

Open

## DEPARTMENT OF ENERGY

Office of Energy Research

Open

Special Research Grants Programs

Open

Toroidal Support Experimental Program

September 1

## DEPARTMENT OF JUSTICE

Office of Juvenile Justice and Delinquency Prevention

Research and Program Development Programs

Open

National Institute of Justice

Visiting Fellowships

November 15

## DEPARTMENT OF STATE

U.S./Spain Joint Committee for Science/Technology

October 1

## ENVIRONMENTAL PROTECTION AGENCY

Environmental Protection-Consolidation Research

Open

Air Pollution Control Research Grants

Open

Pesticides Control Research

Open

Solid Waste Disposal Research

Open

Water Pollution Control-Research, Development, and Demonstration Grants

Open

Safe Drinking Water Research and Demonstration Toxic  
Substances Research

Open

## NATIONAL ENDOWMENT FOR THE ARTS

U.S./French Exchange Program: Deadline varies with  
Discipline

Various

Museum

Special Projects

Open

Media Arts Program

AFI Independent Filmmaker Awards

September 14

Programming in the Arts

September 30

Opera-Musical Theater

New American Works/Producer Grants

September 16

Special Projects-Other

September 16

## NATIONAL ENDOWMENT FOR THE HUMANITIES

Humanities Projects in Libraries

September 6

Basic Research Program: Research Conferences

September 15

## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts

Visiting Senior Fellowships and Associates

(For 3/1/86-8/31/86)

September 21

Senior Fellowship Program

October 15

## U.S. INFORMATION AGENCY

Bureau of Educational and Cultural Affairs

October 15

1986-87 Fulbright Teacher Exchange Program

October 15

## NONFEDERAL

American Cancer Society

Postdoctoral Fellowship

October 1

Junior Faculty Research Awards

October 1

Faculty Research Awards

October 1

Scholars in Cancer Research

October 1

American Chemical Society - Petroleum Research Fund

Grants-in-Aid

No Deadline

American Council of Learned Societies

Fellowships

September 30

ACLS/Ford Fellowships

September 30

Research Fellowships for Recent Ph.D.'s

September 30

Grants-in-Aid

December 15

Travel Grants for Humanists to International Meetings Abroad

Various

Grants for Chinese Studies

December 2

Grants for East European Studies

December 2

American Diabetes Association

September 15

American Heart Association Grants-in-Aid	October 1
American Heart Association - Minnesota Affiliate Research Fellowships	November 15
Grants-in-Aid	December 15
American Lung Association Research Training Fellowships	October 1
Research Grants	November 1
American Philosophical Society Grants-in-Aid	Various--Contact ORA
Annenberg/Corporation for Public Broadcasting Education Through Telecommunications Preliminary Applications	October 10
Full Proposals	January 28
Bosch Foundation Fellowship Program	No Deadline
Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)	No Deadline
Canadian Embassy - Canadian Studies Grant Programmes 1986 Canadian Studies Faculty Enrichment Programme	October 31
Canadian Studies Senior Fellowship Award	October 31
Canadian Studies Graduate Student Fellowship	October 31
Canadian Studies Faculty Research Grant Programme	September 15
Canadian Studies Institutional Research Grant	September 15
Carnegie Corporation	No Deadline
Center for Field Research (Earthwatch) Latin America Field Research Grants	No Deadline
Council of Foreign Relations - Fellowship Program	September 15
Cystic Fibrosis Foundation Research Scholar Awards	September 1
New Investigator Research Grants	September 1
Research Grants	September 1
Research Fellowships	September 1
Clinical Fellowships	October 1
Student Traineeships	October 1
Damon Runyon Walter Winchell Cancer Fund Fellowship Grants	August 15
Human Cancer-Directed Fellowship Grants	August 15
Delta Society	September 15
Dermatology Foundation Postdoctoral Research Fellowships	September 15
Research Grants	September 15
Edna McConnell Clark Foundation	No Deadline
Engineering Foundation (Pre-proposals)	No Deadline
Epilepsy Foundation of America Clinical Research Fellowships	September 1
Research Grant Application	September 1
Exxon Education Foundation - Grants for Curriculum and Teaching and Management of Higher Education Programs	Open
Gas Research Foundation Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
German Marshall Fund Research Fellowships	No Deadline
Short-Term Travel Awards	No Deadline
John A. Hartford Foundation To Improve Drug Prescribing, Monitoring and Use Among the Elderly	November 1
Hudson River Foundation	September 5

International Foundation of Employee Benefit Plans	
Postdoctoral Grants-in-Aid	Open
Jessie B. Cox Charitable Trust	October 31
Kaltenborn Foundation	
Grants for Scholarly Studies in Communication	Open
Kellogg Foundation	
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
Leukemia Society of America	
Scholar Program	September 1
Special Fellow Program	September 1
Fellow Program	September 1
MacArthur Foundation	
International Security Program	Open
March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Social and Behavioral Sciences (Abstract by May 1)	September 1
Basic Research	October 1
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
General Grants	August 16
Small Grant	No Deadline
Minnesota State Arts Board	
Expansion Arts	October 14
Visual Arts	November 1
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Association	
Grants-in-Aid	
Request for Application	November 30
Final Application	December 31
National Fund for Medical Education	
Innovative Programs in Medical Education	October 1
Dissemination Mini-Grants	October 1
Fellowships in Medical Education	November 1
National Geographic Society	
Grants-in-Aid	No Deadline
National Kidney Foundation	October 1
Orthopaedic Research and Education Foundation	
Research Grants	September 15
Career Development Awards	September 15
Department Progress Grants	September 15
Traveling Fellowships	September 15
Pfizer Postdoctoral Fellowship Program	November 1
Pharmaceutical Manufacturers Association Foundation	
1986 Research Starter Grants in Pharmacology, Clinical Pharmacology, Drug Toxicology and Pharmaceutics	September 1
Puritan Bennett Foundation (formerly Parker B. Frances Foundation)	
Fellowships in Pulmonary Research	September 15
Research Corporation	
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline

Rockefeller Foundation	
Research on the Genetic Engineering of Rice	Open
Gender Roles Program	September 15
Alfred P. Sloan Foundation	No Deadline
Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial	
Instrumentation - Pre-proposals	No Deadline
Thrasher Research Fund	
Grants in Nutrition, Infectious Diseases, Health	
Promotion	No Deadline
University Genetics Company (UGEN)	No Deadline
Upjohn Institute for Employment Research	September 20
Villers Foundation	No Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

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# ORA RDC Newsletter

Published Jointly by the Office of Research Administration and the Research Development Center

SEPTEMBER 1985

VOLUME XV/NO. 3

## PROPOSAL AND AWARD ACTIVITY IN FISCAL YEAR 1985

An increase in the level of sponsored program activity at the University of Minnesota is evidenced by the statistics compiled for the fiscal year ending June 30, 1985. The total number of awards processed by the ORTTA increased 10 percent, from 1,752 awards in FY 1984 to 1,929 awards in FY 1985. The representative dollar value of awards processed increased by 27 percent, from \$115.1 million to \$146.3 million. The increase in the number of proposals submitted was somewhat smaller, only 2 percent; however, the dollar amount requested on those proposals increased by 13 percent. The following tables provide a comparison of fiscal year 1984 and 1985 levels by broad agency categories. Further information concerning levels of sponsored programs activity will be forthcoming in future issues of the ORTTA Newsletter.

### AWARDS PROCESSED

Source of Support	Fiscal Year 1985		Fiscal Year 1984	
	Number	Amount	Number	Amount
Federal	977	\$116.5	960	\$ 92.5
State	138	3.9	138	3.6
Business & Industry	260	11.1	204	6.2
Foundations & Assn.	380	10.0	307	8.6
Other Private Sponsors	174	4.8	143	4.2
	1,929	\$146.3	1,752	\$115.1

### PROPOSALS SUBMITTED

Source of Support	Fiscal Year 1985		Fiscal Year 1984	
	Number	Amount	Number	Amount
Federal	1,582	\$286.3	1,594	\$263.9
State	133	5.8	164	6.4
Business & Industry	252	19.7	216	11.4
Foundations & Assn.	630	37.6	582	25.7
Other Private Sponsors	138	6.5	133	6.8
	2,735	\$355.8	2,689	\$314.1



## PER DIEM RATE REVIEW AND REVISED DOG SALES PRICES

Recent analysis of data regarding costs of providing animal care and husbandry services indicated the need to revise per diem rates for several species to reflect these costs. Recommendations were passed on and approved by the Director of Research Animal Resources and Medical School Administration. If you have any questions or need further information, please call Research Animal Resources at 373-4352.

SPECIES	CURRENT RATE	10/1/85 RATE
Mice	\$ .050	\$ .055
Nude Mice	Variable per protocol	No change
Rats	\$ .17	No change
Guinea Pigs	\$ .36	No change
Hamsters	\$ .19	No change
Gerbils	\$ .14	No change
Degu	\$ .12	No change
Chinchillas	\$ .36	No change
Ground Squirrels	\$ .36	No change
Chicks (up to 60 days of age)	\$ .12	No change
Chickens	\$ .48	No change
Ducks	\$ .48	No change
Turkeys	\$ .72	No change
Nonhuman Primates-Quarantine Period	\$2.40	No change
Nonhuman Primates-Resident Housing	\$1.56	\$1.65
Dogs	\$1.80	\$2.00
Cats	\$1.32	\$1.40
Dogs & Cats with litter	\$2.40	\$2.54
Rabbits	\$ .60	\$ .65
Rabbits with litter	\$ .90	\$ .97
Calves	\$6.00	No change
Pigs	\$3.00	No change
Sheep & Goats: through 10 weeks	\$1.50	\$1.60
over 10 weeks	\$2.88	\$3.05

Revised dog sales prices reflect increased purchase cost from suppliers effective July 1, 1985.

Dog	FY 84-85 Sales Price	FY 85-86 Sales Price
Conditioned*	\$115.00	\$120.00
Acute	\$ 43.00	\$ 45.00

\*Heartworm test additional and by request.

## ALAN T. WATERMAN AWARD

The Alan T. Waterman Award Committee of the National Science Foundation (NSF) solicits nominations for this annual award which recognizes an outstanding young scientist in the forefront of science. In addition to a medal and other recognition, the recipient receives grants of up to \$100,000 per year for a period of up to three years for scientific research or advanced study in the biological, mathematical, medical, engineering, physical, social, or other sciences at the institution of the recipient's choice. For candidates to be considered for the 1986 award, nominations must be received by the NSF before December 31, 1985. For further information and/or application forms, contact Mary Bergaas at 373-2784.

## **U. S. ARMY MEDICAL RESEARCH AND DEVELOPMENT PROGRAM**

The U.S. Army Medical Research and Development Command conducts a mission-oriented medical research and development program designed to support the soldier in the field and meet other Army health needs. This program encompasses research areas directed toward increasing efficiency of manpower through the development of medical knowledge and equipment, recovery from combat wounds, prevention and treatment of infectious diseases, providing protection from hazardous environments, and enhancing military performance. The specific research areas of interest are military disease hazards, combat casualty care, Army systems hazards, combat dentistry and medical chemical defense. For a copy of this broad agency announcement, contact ORTTA at 376-7353.

## **UNIVERSITY RESEARCH INSTRUMENTATION GRANTS**

The Department of Defense is accepting applications from universities for the fourth phase of its five-year, \$150 million program to upgrade research instrumentation. Under the program, DOD will award \$30 million to universities in FY 1986 to purchase research equipment in hundreds of scientific fields, including life sciences, environmental sciences, engineering, chemistry and physics. The deadline is November 15. Applicants need not be DOD contractors. For further information, contact: Army Research Office, Technical Support Office, P.O. Box 12211, Research Triangle Park, NC 27709, (919) 549-0641, or ORTTA at 376-7353.

## **HEALTH EFFECTS INSTITUTE**

The Health Effects Institute (HEI) announces the availability of research funds in the area of health effects of automotive emissions. Full applications will be accepted until October 22, 1985, for research concerning the Health Effects of Aldehydes. Preliminary applications are being solicited for: New Methods for Assessing Health Risks from Automotive Emissions and Health Effects of Automotive Emissions. Preliminary applications will be accepted at any time. Relevant materials about the research topics, directions for preparing applications, and material about the Institute is available from Mr. Thomas P. Grumbly, Acting Executive Director, The Health Effects Institute, 215 First Street, Cambridge, MA 02142, or by contacting ORTTA at 376-7353.

## **LEUKEMIA SOCIETY OF AMERICA ESTABLISHES NEW GRANTS**

Two new grants have been added to the research programs of the Leukemia Society of America. The President's Research Development Award is designed to provide funds to senior investigators to accelerate new research which may potentially further the understanding of leukemia. Projects may include unique research opportunities which need immediate funding for technical support, supplies and/or equipment needed to begin an important new avenue of investigation. The Short-Term Scientific Award will provide funds for travel to another laboratory or clinic to learn a specific technique or to share information which has been developed by the principal investigator of the laboratory/clinic to be visited. Both grants will be awarded quarterly with the first to be activated January 1, 1986. Applications will be available on or about September 1, 1985 from the Research Grant Coordinator, Leukemia Society of America, 733 Third Avenue, New York, NY 10017.

## FACULTY FELLOWSHIPS IN HEALTH CARE FINANCE

The Robert Wood Johnson Foundation's Program for Faculty Fellowships in Health Care Finance was established to help meet the growing need for university faculty equipped with the skills necessary to teach and conduct research in this field. The Program seeks to offer a broad exposure to the many issues that bear on health care finance, and provide instruction in the research skills and management tools required in the field. The deadline for applications for the 1986-87 round of the Program is January 20, 1986. For a copy of the program brochure, contact ORTTA at 376-7353.

## AMERICAN CANCER SOCIETY (ACS) INSTITUTIONAL RESEARCH GRANT AWARD

The University of Minnesota has been awarded a renewal of its Institutional Research grant from the American Cancer Society (ACS) for 1985-1986. This fund is intended to serve as "seed" money permitting the initiation of promising new projects or novel ideas, especially by junior investigators, in cancer-related research. Encouragement of cancer research may also be facilitated by support of seminars on cancer-related topics, and by graduate student research. The fund is administered by a Dean's Committee of the Medical School with representation from other biologically-oriented colleges. The Committee is now accepting applications for individual grants not to exceed \$7,500 from this fund. Instructions and application forms may be obtained from the Dean's Committee for the ACS Institutional Research Grant, Room 421 Masonic Cancer Center, 373-4318. Deadline: October 1, 1985.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORTTA CONTACT NUMBERS FOR DEADLINE/PROGRAM INFORMATION ARE 376-7358 OR 376-7359.

## FEDERAL

### NATIONAL INSTITUTES OF HEALTH

#### NIH

NIH	Fogarty International Center, Eastern European Scientist Exchange Program, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
NIH	Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
NIH	Fogarty, Senior International Fellowship Program	October	1
NIH	National Research Service Awards for Senior Fellows	October	1
NIH	National Research Service Awards for Individual Postdoctoral Fellows	October	1
NIH	National Research Service Award Institutional Grants	October	1
NIH	NMR Resources, Biotechnology Resources Program	October	1

NIH	Research Grants, Renewals	October	1
NIH	Research Career Development Awards	October	1
NIH	Individual Postdoctoral Fellowships	October	1
NIH	Institutional Training Programs	October	1
NIH	Support of Scientific Meetings	October	1
NIH	Research Grants, New	November	1
NIH	New Investigator Awards	November	1
NIH	National Research Service Awards for Short-term Training: Students in Health Professional Schools	February	1

#### NCI

NCI	85-CA-13, Clinical Evaluation of Models of Biochemical Modulation	September	15
NCI	Preventive Oncology Academic Award	October	1
NCI	Comprehensive Minority Biomedical Program - Minority Satellite Supplement	October	1
NCI	Comprehensive Minority Biomedical Program - Minority Investigator Supplement	October	1
NCI	Cancer Education Program	October	1
NCI	NCI-CN-55434-50, Formulation, Dosage Form Preparation and Packaging of Chemopreventive Agents	October	11
NCI	85-CA-19, Differentiating Agents in Human Malignancies (letter of intent by 8/15/85)	October	15
NCI	NCI-CM-57740-16, Deep Sea Marine Organism Collection (Approx.)	October	15
NCI	NCI-CM-57741-22, Shallow Water Marine Organism Collection (Approx.)	October	15
NCI	NCI-CM-57745-16, Cultivation of Blue Green Algae (Approx.)	October	15
NCI	85-CA-15, Cooperative Agreements for National Collaborative Chemoprevention Projects	October	25
NCI	NIAID/NIADDK/NICHHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases: Research Grants	November	1
NCI	Biochemistry and Pharmacology Program	November	1
NCI	Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	November	1
NCI	Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	November	1
NCI	Prediction of Tumor Response to Radiation Therapy	November	1
NCI	Medical Imaging for Diagnosis and Treatment of Cancer	November	1
NCI	Research on Biological Response Modifiers	November	1
NCI	85-CA-06, Development, Validation, and Application of Biochemical Markers of Human Exposure for Use in Epidemiologic Studies (Letter of intent - 10/1/85)	November	4
NCI	Cancer Control Science Associates Program	November	22

#### NEI

NEI	Small Grants Program for Pilot Projects	October	1
NEI	NHLBI/NIAID/NIAMDD/NICHHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	October	1
NEI	Causes and Prevention of Myopia	November	1
NEI	Research on Basic Mechanisms of Retinal Phototoxicity	November	1

NEI	Molecular Research in Strabismus, Amblyopia, and Visual Processing	November	1
<b>NHLBI</b>			
NHLBI	RFA-85-HL-10-H, Specialized Centers of Research in Arteriosclerosis (SCOR-A) and National Research and Demonstration Centers in Arteriosclerosis (NRDC-A)	September	16
NHLBI	Career Development Programs for Physicians in Cardiac and Vascular Research in Cerebrovascular Disease	October	1
NHLBI	Research Career Development Award: Basic Science Related to the Respiratory System	October	1
NHLBI	Research Training and Development Area: National Research Service Award Programs		
	Institutional Research Training Grant Award	October	1
	Individual Postdoctoral Fellowship Award	October	1
	Senior Research Fellowship Award	October	1
	Research Career Development Programs		
	Research Career Development Award	October	1
	Clinical Investigator Award	October	1
	Physician Scientist Award	October	1
	Special Emphasis Research Career Award: Diabetes Mellitus	October	1
NHLBI	Transfusion of Medicine Academic Award	October	15
NHLBI	Demonstration and Education Research Related to Pulmonary Disease	November	1
NHLBI	Arrhythmia Detection and Discrimination from Electrograms	November	1
NHLBI	Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young	November	1
NHLBI	Minimally Invasive Measurement of Blood Pressure in the Heart and Central Arteries	November	1
NHLBI	Development of Genetic Hypertensive Animal Models	November	1
NHLBI	Blood Transfusion and Cytomegalovirus Infection	November	1
NHLBI	Surfactants for Perflurochemicals	November	1
NHLBI	Research in Sickle Cell Disease: Pain Management in Sickle Cell Disease	November	1
NHLBI	85-HL-29B, Regulation of the Cloned Human Beta-Globin Gene	November	15
NHLBI	RFA-85-HL-02-L, Specialized Centers of Research and National Research and Demonstration Centers: Chronic Diseases of the Airways/Occupational and Immunological Lung Diseases/Pulmonary Vascular Diseases	December	2
NHLBI	85-HL-27-H, Molecular Characterization of Ion Channels in the Myocardial Sarcolemma (Letter of intent - 8/15/85)	December	16
NHLBI	85-HL-28-L, Alpha-1-Protenase Inhibitor Deficiency and Emphysemia-Molecular Studies	December	16
<b>NIA</b>			
NIA	Health Behaviors and Aging: Behavioral Geriatrics Research	October	1
NIA	NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	October	1

NIA	NIAID/NIADDK/NICHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	October	1
NIA	Complementary Training Awards for Research on Aging	October	1
NIA	Aging and Visual Perception		
	Postdoctoral Fellow	October	1
	Program Project	October	1
	Others	October	1
	Research Project Grant	November	1
	New Investigator Award	November	1
NIA	The Oldest Old:		
	Program Project Grants	October	1
	Individual Postdoctoral Fellowships	October	1
	Research Grants	November	1
	New Investigator Awards	November	1
NIA	Studies on Exercise Physiology and Aging	November	1
NIA	Molecular Biological and Genetic Basis of Aging	November	1
NIA	Geriatric Leadership Academic Award	November	1
NIA	Social Environments Influencing Health and Functioning in Later Years	November	1
NIA	85-AG-01, Neurologic, Muscular, Perceptual, and Cardiovascular Aspects of Falls and Gait Disorders in Elderly People	November	15
<b>NIADDKD</b>			
NIADDK	NIA, SERCA: Diabetes Mellitus in the Elderly	October	1
NIADDK	Use of New Techniques to Study Metabolic Processes and Diseases	November	1
NIADDK	Dominantly Inherited Polycystic Kidney Disease	November	1
NIADDK	NICHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	November	1
NIADDK	NIA/NIAID/NICHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	November	1
NIADDK	NIAID/NCI/NICHD/NIGM, Liver Transplantation Research	November	1
<b>NIAID</b>			
NIAID	Minority Research Enhancement Program	Open	
NIAID	85-AI-05, Studies of Acquired Immunodeficiency Syndrome	September	15
NIAID	Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
	Career Development	October	1
	Physician Scientist	October	1
	Clinical Investigator	October	1
	Postdoctoral Fellow	October	1
	New Grants	November	1
	New Investigator	November	1
NIAID	Asthma and Allergic Disease Centers for Immuno- dermatologic Studies	October	15
NIAID	Centers: Asthma and Allergic Disease/Immuno- dermatologic Diseases (Letter of intent by 7/15/85)	October	15
NIAID	Centers for Interdisciplinary Research on Immunologic Diseases (Letter of intent by 7/15/85)	October	15
NIAID	Human Papilloma Viruses and Genital Warts	November	1
NIAID	Mechanisms of Action of the Drug Cyclosporine	November	1

NIAID	NINCDS/NIA, Persistent Viral Infections - Alzheimer's Disease	November	1
NIAID	Mechanism of Latency of Herpes Simplex Virus	November	15
NIAID	85-AI-07, Sexually Transmitted Diseases Research Unit	November	15
<b>NICHD</b>			
NICHD	85-HD-10, Defining and Subtyping Dyslexia	September	15
NICHD	85-HD-11, Mechanisms of Immunologic Infertility	October	15
NICHD	85-HD-13, Cooperative Multicenter Program on Environmental Conditions for Non-Human In Vitro Fertilization and Preimplantation Development	October	15
NICHD	CRMC-85-14, Ethnic Differences in Life Style, Psychological Factors and Medical Care During Pregnancy	October	25
NICHD	Physical Activity in Pregnancy	November	1
NICHD	NHLBI, Hypertension in Pregnancy	November	1
NICHD	85-HD-12, Research on Teen Contraceptive Behavior	November	15
<b>NIDR</b>			
NIDR	Small Grant Program	October	1
NIDR	Dentist Scientist Award	October	1
<b>NIEHS</b>			
NIEHS	NIH-ES-85-11, Studies of Chemical Disposition in Mammals	September	24
NIEHS	Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	October	1
NIEHS	Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	October	1
NIEHS	Specialized Centers of Research in Genetic Toxicology	October	1
NIEHS	NIADDK, Effect of Environmental Agents on the Endocrine System	November	1
<b>NIGMS</b>			
NIGMS	Minority Programs, Minority Biomedical Support and Minority Access to Research Careers	October	1
NIGMS	Cellular and Molecular Basis of Disease Research	November	1
NIGMS	Physiology and Biomedical Engineering	November	1
NIGMS	Genetics Research	November	1
NIGMS	Pharmacological Sciences	November	1
NIGMS	Shared Instrumentation Grants	February	15
<b>NINCDS</b>			
NINCDS	Clinical Investigator Development Award	October	1
NINCDS	Speech and/or Language Disorders in Children Individual Postdoctoral Fellowships	October	1
NINCDS	Multidisciplinary Research Centers for the Study of Neuro-Genetic Disorders of Infancy and Childhood (P50)	October	1

NINCDS	Research Grants Related to Basic Mechanisms in the Phakomatosis	November	1
NINCDS	Ostosclerosis and Early Progressive Deafness	November	1
NINCDS	Research Grants on Status Epilepticus	November	1
NINCDS	Research Grants on Basic Mechanisms of the Epilepsies	November	1
NINCDS	NIMH, Autism and Related Behavioral Disorders	December	1

## NIOSH

NIOSH	Research and Demonstrations Relating to Occupational Safety and Health:		
	Special Emphasis Research Career Award	October	1
	Small Grant Program	October	1
	Research Grants	November	1
	Demonstration Grants	November	1
	Program Project Grants	November	1

## NLM

NLM	Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	November	1
NLM	Investigator-Initiated Research Grants/New Investigator Research Awards	November	1

## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA	Small Grants Program	Open	
ADAMHA	Individual Postdoctoral Fellowships	October	1
ADAMHA	Institutional Training Grants, NRSA	October	1
ADAMHA	Research Grants, New	November	1
ADAMHA/NIH/NCHSR	Research on Digestive Diseases:		
	Research Career Development	October	1
	Research Grants	November	1
NIAAAA	Research on Children of Alcoholics	November	1
NIAAAA	Alcohol Resource Center Grants	November	1
NIAAAA	Alcohol Research Grants	November	1
NIAAAA	New Investigator Research Award	November	1
NIAAAA	Research Grants on Alcohol-Related Performance		
	Effects and Traumatic Injury	November	1
NIAAAA/NIDA/NIMH	Institutional NRSA Training	October	1
NIAAAA/NIDA/NIMH	New Investigator Research Award (NIRA) in Prevention	November	1
NIDA/NIAAAA	Community Prevention Research in Alcohol and Drug Abuse	November	1
NIDA	Drug Abuse Prevention Research	November	1
NIMH	Research Support Programs	November	1
	Small Grant Program (with NIAAAA and NIDA)	Open	
	Grants for Mental Health Service System Research	November	1
	Geriatric Mental Health Academic Awards	November	1
	Preventive Intervention Research Centers (PIRC)	November	1
	Rape Center	November	1
	Prevention Research Branch	November	1
	New Investigator Research Award (NIRA) in Prevention (with NIAAAA and NIDA)	November	1



Clinical Research Centers on Psychopathology of the Elderly	November	1
Clinical Investigator Award	November	1
Physician Scientist Award	November	1
Autism and Related Behavioral Disorders (with NINCDS)	November	1
Studies on Obesity (with NIH Institutes and NIDA)	November	1
Support for Child and Adolescent Mental Health Research and Research Training	November	1
Research on Mental Illness in Nursing Homes	November	1
AA-85-02, Research Grants on the Prevention of Alcohol, Drug Abuse, and Mental Health (ADM) Disorders at the Worksite (with NIAAA and NIDA)	November	1
Service System and Economic Research Programs	November	1
MH-86-03, Assessment of Mental Health Problems in Disaster Victims	November	1
MH-86-05, Prevention Research on Mutual Support Approaches with Bereaved Populations	November	1
MH-86-07, Research on Family Stress and the Care of Alzheimer's Disease Victims	November	1
MH-84-01, Research Support Programs: Neurosciences, Behavioral Sciences, Epidemiologic, Clinical Assessment and Etiological, Treatment, Prevention and Service Research New Regular Research Grants	November	1
Support for Child and Adolescent Mental Health Research and Research Training: Research Grants	November	1
Research Grants Program	November	1
Antidepressant Drugs in the Treatment of Anxiety Disorders	November	1
Clinical Research Centers on Psychopathology of the Elderly	November	1
MH-86-06, Research on Method for Studying Mental Health Service Systems	November	1

## CENTERS FOR DISEASE CONTROL

Cooperative Agreement for a Project to Promote Implementa- tion of the Model Standards: A Guide for Community Preventative Health Services		FY85
Cooperative Agreement for a Project to Examine the State of the Art in Public Health and to Formulate Policy Options Related to the Future Roles, Functions, Organization, Research and Data Needs, and Manpower Implications for Public Health in General and for State and Local Health Departments in Particular		FY85
Research and Demonstrations Relating to Occupational Safety and Health - (SERCA Grants and Small Grants)	November October	1 1

## DEPARTMENT OF EDUCATION

Library Career Training Program for FY86	September	16
High School Equivalency Program	September	19
College Assistance Migrant Program	September	19
Indian Education Kit - Part B - Educational Personnel Development	September	20
Graduate and Professional Opportunity Fellowships Program	October	1
Research in Education of the Handicapped:		
Field Initiated Research Projects	October	10
Extant Data Base Projects	December	13

Fulbright-Hays Training Grant Programs:		
Faculty Research Abroad	November	4
Undergraduate International Studies and Foreign Language Program	November	12
OSERS-		
Preparation of Special Educators	November	15
Preparation of Related Services Personnel	November	15
Postsecondary Education Projects for Handicapped Persons:		
Postsecondary Demonstration Projects	December	16

## HEALTH CARE FINANCING ADMINISTRATION

Medicare and Medicaid Programs, Health Care Financing Research and Demonstration Cooperative Agreements and Grants (Waiver-only and discretionary funds awards)	November	4
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## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Graduate Training in Family Medicine	September	27
National Research Service Awards - Institutional Grants	October	1
Advanced Nurse Training Grants	November	1
Nurse Practitioner Training Grants	November	1
Nursing Special Project Grants	November	1
Health Careers Opportunity Program	November	1
Competing Cooperative Agreements for Area Health Education Center Programs	December	14

## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required prior to formal application)	Open	
NCHSR Extramural Research	November	1

## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Programs	Open	
Teacher Enhancement and Informal Science Education		
Presidential Awards for Excellence in Science and Mathematics Teaching	Open	
U.S.-Austria Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September	15

U.S.-Federal Republic of Germany Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September 15
Cooperative Science Activities with Denmark, the Netherlands, and Norway (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-9700	September 15
U.S.-Finland Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-Sweden Cooperative Science (NSF 83-73). Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-Spain Cooperative Program in Basic Sciences (NSF 84-10). Proposals for cooperative research, joint seminars, exchange of scientists, and short term visits. Contact the Division of International Programs (202) 357-7554	September 15
U.S.-India Exchange of Scientists (NSF 82-86). Contact Dr. Jean Johnson or Dr. Osman Shinaishin, Division of International Programs (202) 357-9550	September 15
Coordinated Experimental Research (NSF 83-60). Limited to Ph.D.-granting institutions with research programs in computer science and engineering. Contact Dr. W. Richards Adrion, Division of Computer Research (202) 357-7375	September 16
U.S.-Australia Cooperative Science (NSF 81-49, as revised Jan. 1982). For seminars, cooperative research projects in which reciprocal (exchange) visits are proposed, and visits by Australians to the United States (i.e. no cost to NSF) only, for requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October 1
U.S.-New Zealand Cooperative Science (NSF 81-50). Proposals for projects with requested effective dates falling between July 1 and December 31, 1986. Contact the Division of International Programs (202) 357-9700	October 1
NATO Advanced Study Institute Travel Awards	November 1
NATO Postdoctoral Fellowships in Science	November 1

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Ocean Sciences Research. Contact Dr. Robert Wall, Division of Ocean Sciences (202) 357-7924	September 30
Biological Instrumentation (NSF 83-19). Contact Dr. John Wooley, Division of Molecular Biosciences (202) 357-7652	September 30
Materials Development and Research	
Instructional Materials Development	October 1
Materials and Methods for Teacher Preparation	October 1
Applications of Advanced Technologies	October 1

Research in Teaching and Learning	October	1
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	October	1
Doctoral Dissertation Research in Biotic Systems and Resources. Contact Dr. James Edwards, Division of Biotic Systems and Resources (202) 357-9588	October	1
Population Biology and Physiological Ecology. Contact Dr. Louis Pitelka, Division of Biotic Systems and Resources (202) 357-9728	October	1
Systematic Biology. Contact Dr. James Rodman, Division of Biotic Systems and Resources (202) 357-9588	October	1
Productivity Improvement Research (NSF 84-16). Contact Dr. J. D. Eveland, Dr. William Hetzner, or Dr. E. C. Johnson, Division of Industrial Science and Technological Innovation (202) 357-9804	October	1

## DEPARTMENT OF COMMERCE

National Bureau of Standards; Center for Manufacturing Engineering, Automated Manufacturing Research Facility (AMRF) Research Grants Program	Open	
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## DEPARTMENT OF DEFENSE

Office of Naval Research		
Strategic Defense Initiative	Open	
Young Investigator Program	Open	
Strategic Defense Initiative Innovative Science and Technology Office	Open	
U.S. Air Force		
University Resident Research Program	Open	

## DEPARTMENT OF ENERGY

Office of Energy Research	Open	
Special Research Grants Programs	Open	

## DEPARTMENT OF JUSTICE

Office of Juvenile Justice and Delinquency Prevention Research and Program Development Programs	Open	
National Institute of Justice Visiting Fellowships	November	15

## DEPARTMENT OF STATE

U.S./Spain Joint Committee for Science/Technology	October	1
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## ENVIRONMENTAL PROTECTION AGENCY

Environmental Protection-Consolidation Research	Open
Air Pollution Control Research Grants	Open
Pesticides Control Research	Open
Solid Waste Disposal Research	Open
Water Pollution Control-Research, Development, and Demonstration Grants	Open
Safe Drinking Water Research and Demonstration Toxic Substances Research	Open

## INSTITUTE OF MUSEUM SERVICES

General Operating Support Program	November 15
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## NATIONAL ENDOWMENT FOR THE ARTS

U.S./French Exchange Program: Deadline varies with Discipline	Various
Museum	
Special Projects	Open
Media Arts Program	
AFI Independent Filmmaker Awards	September 14
Programming in the Arts	September 30
Opera-Musical Theater	
New American Works/Producer Grants	September 16
Special Projects-Other	September 16

## NATIONAL ENDOWMENT FOR THE HUMANITIES

Basic Research Program: Research Conferences	September 15
Undergraduate Humanities Improvement Grants	October 1

## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts	
Visiting Senior Fellowships and Associates (For 3/1/86-8/31/86)	September 21
Senior Fellowship Program	October 15

## U.S. INFORMATION AGENCY

Bureau of Educational and Cultural Affairs	October 15
1986-87 Fulbright Teacher Exchange Program	October 15

## NONFEDERAL

American Cancer Society	
Postdoctoral Fellowship	October 1
Junior Faculty Research Awards	October 1

Faculty Research Awards	October	1
Scholars in Cancer Research	October	1
American Chemical Society - Petroleum Research Fund Grants-in-Aid	No	Deadline
American Council of Learned Societies Fellowships	September	30
ACLS/Ford Fellowships	September	30
Research Fellowships for Recent Ph.D.'s	September	30
Grants-in-Aid	December	15
Travel Grants for Humanists to International Meetings Abroad	Various	
Grants for Chinese Studies	December	2
Grants for East European Studies	December	2
American Diabetes Association	September	15
American Heart Association Grants-in-Aid	October	1
American Heart Association - Minnesota Affiliate Postdoctoral Research Fellowships	November	15
Grants-in-Aid	December	15
American Lung Association Research Training Fellowships	October	1
Research Grants	November	1
American Philosophical Society Grants-in-Aid	Various--Contact	ORA
Annenberg/Corporation for Public Broadcasting Education Through Telecommunications Preliminary Applications	October	10
Full Proposals	January	28
Bosch Foundation Fellowship Program	No	Deadline
Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)	No	Deadline
Canadian Embassy - Canadian Studies Grant Programmes 1986 Canadian Studies Faculty Enrichment Programme	October	31
Canadian Studies Senior Fellowship Award	October	31
Canadian Studies Graduate Student Fellowship	October	31
Canadian Studies Faculty Research Grant Programme	September	15
Canadian Studies Institutional Research Grant	September	15
Carnegie Corporation	No	Deadline
Center for Field Research (Earthwatch) Latin America Field Research Grants	No	Deadline
Council of Foreign Relations - Fellowship Program	September	15
Cystic Fibrosis Foundation Clinical Fellowships	October	1
Student Traineeships	October	1
Delta Society	September	15
Dermatology Foundation Postdoctoral Research Fellowships	September	15
Research Grants	September	15
Edna McConnell Clark Foundation	No	Deadline
Engineering Foundation (Pre-proposals)	No	Deadline
Exxon Education Foundation - Grants for Curriculum and Teaching and Management of Higher Education Programs	Open	
Gas Research Foundation Telephone contact or letter of inquiry prior to submission of formal proposal	No	Deadline
German Marshall Fund Research Fellowships	No	Deadline
Short-Term Travel Awards	No	Deadline

John A. Hartford Foundation To Improve Drug Prescribing, Monitoring and Use Among the Elderly	November 1
International Foundation of Employee Benefit Plans Postdoctoral Grants-in-Aid	Open
Jessie B. Cox Charitable Trust	October 31
Robert Wood Johnson Foundation Dental Services Research Scholars Program 1985	November 1
Kaltenborn Foundation Grants for Scholarly Studies in Communication	Open
Kellogg Foundation Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
MacArthur Foundation International Security Program	Open
March of Dimes Birth Defects Foundation Basil O'Connor Starter Research Grants Basic Research	Continuous October 1
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission Small Grant	No Deadline
Minnesota State Arts Board Expansion Arts	October 14
Visual Arts	November 1
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Association Grants-in-Aid Request for Application	November 30
Final Application	December 31
National Academy of Sciences (CSCPRC) National Program of Scholarly Exchanges with the People's Republic of China	October 12
National Fund for Medical Education Innovative Programs in Medical Education	October 1
Dissemination Mini-Grants	October 1
Fellowships in Medical Education	November 1
National Geographic Society Grants-in-Aid	No Deadline
National Kidney Foundation	October 1
Orthopaedic Research and Education Foundation Research Grants	September 15
Career Development Awards	September 15
Department Progress Grants	September 15
Traveling Fellowships	September 15
Pfizer Postdoctoral Fellowship Program	November 1
Puritan Bennett Foundation (formerly Parker B. Frances Foundation) Fellowships in Pulmonary Research	September 15
Research Corporation (Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline

Rockefeller Foundation	
Research on the Genetic Engineering of Rice	Open
Gender Roles Program	September 15
Alfred P. Sloan Foundation	No Deadline
Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial	
Instrumentation - Pre-proposals	No Deadline
Thrasher Research Fund	
Grants in Nutrition, Infectious Diseases, Health	
Promotion	No Deadline
Tinker Foundation	
Tinker Postdoctoral Fellowship Program	December 15
University Genetics Company (UGEN)	No Deadline
Upjohn Institute for Employment Research	September 20
Villers Foundation	No Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.



Office of Research and Technology  
Transfer Administration  
Administrative Services Center, 5th Floor  
1919 University Avenue  
University of Minnesota  
St. Paul, Minnesota 55104

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# ORA RDC Newsletter

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VOLUME XV/NO. 4

## NEW FRINGE BENEFIT RATES

The fringe benefit rates shown below will be charged against salaries during the period August 1 through December 31, 1985. The estimated rates are to be used for budgeting beyond December 1985. Please call 376-8353 with questions regarding fringe benefit rate development.

	ACADEMIC %	CIVIL SERVICE %
Health Plan	4.9360	7.8433
Unemployment Compensation	.0213	.1650
Worker's Compensation	.0000	.8114
Group Life and Disability	.7680	.1993
Retirement	11.7750	3.9275
F.I.C.A.	<u>6.3544</u>	<u>7.1586</u>
	23.8547	20.1051
Estimated rates to be used for budgeting beyond 12/31/85	24.0000	21.0000

## DATE OF NEGOTIATION AGREEMENT

The date of the Negotiation Agreement for the provisional indirect cost rates for 1985-86 referenced in the August 1985 ORA Newsletter is July 19, 1985. This date should replace the September 11, 1984 date in proposal submissions through the Office of Research and Technology Transfer Administration. Any questions should be directed to Marilyn Surbey at 373-5750.

## CHANGE IN NSF PROPOSAL FORMAT AFTER SEPTEMBER 30, 1985

In order to enable National Science Foundation (NSF) staff and reviewers to evaluate performance on prior NSF awards, applicants are required to describe results from prior NSF support in a separate section of the proposal. Contents of proposals should be assembled in the following sequence: cover page, table of contents, project summary, results from prior NSF support (if applicable)\*, project description, bibliography, biographical sketches, budget, current support, appendices. Material on facilities and special considerations affecting the project should be included in appendices.

\*Results from Prior NSF Support--If the Principal Investigator(s) has received an NSF award in the past five years, the following information on the prior award is required:

- a. The NSF award number, amount and period of support.
- b. The title of the project.
- c. A summary of the results of the completed work. To facilitate review, this summary should not exceed the equivalent of four single-spaced pages.
- d. List of publications acknowledging the NSF award.
- e. If the proposal is for renewal of a grant, then describe the relation of the completed work to the proposed work.

If the applicant has received multiple prior awards (amendments to an award are not considered separate awards), the applicant should provide the information requested for the prior award which is most closely related to the proposal. Peer reviewers will be asked to comment on the quality of the prior work described in this section of the proposal. Questions regarding these changes should be directed to Mary Bergaas at 373-2784.

## CONFERENCES - A USEFUL TOOL FOR DISSEMINATION

How best to disseminate research results is a question of interest to principal investigators preparing proposals for sponsored research. Dissemination can be important to broader discussion and utilization of research findings, and a specific dissemination plan is often a required part of the proposal.

One approach to timely dissemination is a conference or symposium. A conference can be useful for many purposes, which can vary according to the needs of the researcher, from a gathering of renowned scholars from around the world to a meeting of practitioners in need of the information developed by the researcher. Researchers can look to a conference to provide many benefits, among which these may be noted:

- ...the opportunity to speed up the dissemination process and overcome the customary delay in publication in scholarly journals; publication of conference proceedings also often precedes journal publication;
- ...the opportunity to think with the best minds in the field, yielding immediate critiques which help to guide research in process and stimulate new research;
- ...research validation by practitioners and others interested in the application of research findings, where the interaction may lead to corrections or modifications and produce a synthesis of theoretical and practical views;
- ...the opportunity to develop new relationships within the discipline and with scholars in related fields;
- ...enhanced visibility for the researcher and the research.

A successful conference requires adequate preparation time. Thus, it is important to think ahead to dissemination while preparing a research proposal and to include costs in your submission.

The complex process of conference planning can be handled for you by Continuing Education and Extension (CEE). CEE staff will bring their expertise to this part of the job, and free the principal investigator to concentrate on the research. They can assist with the conference part of the proposal, and they are geared to transposing research results into a conference setting. They convene planning committees, contact appropriate participants, prepare agendas and conference proceedings, and handle administrative details. These services offer a substantial saving in time and money for the researcher, who can rest assured that the work will be of high quality and based on a wide range of experience.

If you would like a referral to a conferences planner, please contact Claire Olson, CEE Office of Development, (612) 376-8286.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORTTA CONTACT NUMBERS FOR DEADLINE/PROGRAM INFORMATION ARE 376-7358 OR 376-7689.

## FEDERAL

### NATIONAL INSTITUTES OF HEALTH

#### NIH

NIH	Fogarty International Center, Eastern European Scientist Exchange Program, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
NIH	Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
NIH	Research Grants, New	November	1
NIH	New Investigator Awards	November	1
NIH	National Research Service Awards for Senior Fellows	February	1
NIH	National Research Service Awards for Individual Postdoctoral Fellows	February	1
NIH	National Research Service Award Institutional Grants	February	1
NIH	Research Grants, Renewals	February	1
NIH	Research Career Development Awards	February	1
NIH	Individual Postdoctoral Fellowships	February	1
NIH	Support of Scientific Meetings	February	1
NIH	Institutional Training Programs	February	1

**NCI**

NCI	85-CA-19, Differentiating Agents in Human Malignancies (letter of intent by 8/15/85)	October	15
NCI	NCI-CM-57740-16, Deep Sea Marine Organism Collection	October	15
NCI	NCI-CM-57741-22, Shallow Water Marine Organism Collection	October	15
NCI	NCI-CM-57745-16, Cultivation of Blue-Green Algae	October	15
NCI	85-CA-15, Cooperative Agreements for National Collaborative Chemoprevention Projects	October	25
NCI	NIAID/NIAIDDK/NICHHD/NIDR/NIEHS/NIA/DRR, Research on Digestive Diseases: Research Grants	November	1
NCI	Biochemistry and Pharmacology Program	November	1
NCI	Characterization of Multi-Drug Resistant Human and Other Mammalian Tumor Cell Lines	November	1
NCI	Phase I/II Clinical Evaluation of Viral Oncolysates Prepared Against Human Tumors Biological Response Modifiers Research	November	1
NCI	Prediction of Tumor Response to Radiation Therapy	November	1
NCI	Medical Imaging for Diagnosis and Treatment of Cancer	November	1
NCI	Research on Biological Response Modifiers	November	1
NCI	85-CA-06, Development, Validation and Application of Biochemical Markers of Human Exposure for Use in Epidemiologic Studies (Letter of intent - 10/1/85)	November	4
NCI	Cancer Control Science Associates Program	November	22
NCI	Cancer Education Program	February	1
NCI	Comprehensive Minority Biomedical Program - Minority Satellite Supplement	February	1
NCI	Comprehensive Minority Biomedical Program - Minority Investigator Supplement	February	1

**NEI**

NEI	Causes and Prevention of Myopia	November	1
NEI	Research on Basic Mechanisms of Retinal Phototoxicity	November	1
NEI	Molecular Research in Strabismus, Amblyopia, and Visual Processing	November	1
NEI	Small Grants Program for Pilot Projects	February	1
NEI	NHLBI/NIAID/NIAMDD/NICHHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	February	1

**NHLBI**

NHLBI	Transfusion of Medicine Academic Award	October	15
NHLBI	Demonstration and Education Research Related to Pulmonary Disease	November	1
NHLBI	Arrhythmia Detection and Discrimination from Electrograms	November	1
NHLBI	Miniaturized Transducers for Imaging and Measuring Cardiovascular Structure and Function in Infants and in the Young	November	1
NHLBI	Minimally Invasive Measurement of Blood Pressure in the Heart and Central Arteries	November	1
NHLBI	Development of Genetic Hypertensive Animal Models	November	1
NHLBI	Blood Transfusion and Cytomegalovirus Infection	November	1

NHLBI	Surfactants for Perflurochemicals	November	1
NHLBI	Research in Sickle Cell Disease: Pain Management in Sickle Cell Disease	November	1
NHLBI	85-HL-29B, Regulation of the Cloned Human Beta- Globin Gene	November	15
NHLBI	RFA-85-HL-02-L, Specialized Centers of Research and National Research and Demonstration Centers: Chronic Diseases of the Airways/Occupational and Immuno- logical Lung Diseases/Pulmonary Vascular Diseases	December	2
NHLBI	85-HL-27-H, Molecular Characterization of Ion Channels in the Myocardial Sarcolemma (letter of intent - 8/15/85)	December	16
NHLBI	85-HL-28-L, Alpha-1-Protenase Inhibitor Deficiency and Emphysema-Molecular Studies	December	16
NHLBI	Research Career Development Award: Basic Science Related to the Respiratory System	February	1
NHLBI	Research Training and Development Area: National Research Service Award Programs		
	Institutional Research Training Grant Award	February	1
	Individual Postdoctoral Fellowship Award	February	1
	Senior Research Fellowship Award	February	1
	Research Career Development Programs		
	Research Career Development Award	February	1
	Clinical Investigator Award	February	1
	Physician Scientist Award	February	1
	Special Emphasis Research Career Award: Diabetes Mellitus	February	1

#### NIA

NIA	Studies on Exercise Physiology and Aging	November	1
NIA	Molecular Biological and Genetic Basis of Aging	November	1
NIA	Geriatric Leadership Academic Award	November	1
NIA	Social Environments Influencing Health and Functioning in Later Years	November	1
NIA	Aging and Visual Perception		
	Research Project Grant	November	1
	New Investigator Award	November	1
	Postdoctoral Fellow	February	1
	Program Project	February	1
NIA	The Oldest Old:		
	Research Grants	November	1
	New Investigator Awards	November	1
	Program Project Grants	February	1
	Individual Postdoctoral Fellowships	February	1
NIA	85-AG-01, Neurologic, Muscular, Perceptual, and Cardiovascular Aspects of Falls and Gait Disorders in Eldering People	November	15
NIA	Health Behaviors and Aging: Behavioral Geriatrics Research	February	1
NIA	NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	February	1
NIA	NIAID/NIADDK/NICHHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	February	1
NIA	Complementary Training Awards for Research on Aging	February	1

**NIADDKD**

NIADDK	Use of New Techniques to Study Metabolic Processes and Diseases	November	1
NIADDK	Dominantly Inherited Polycystic Kidney Disease	November	1
NIADDK	NICHD/NIDR, Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	November	1
NIADDK	NIA/NIAID/NICHD/NIDR/NIEHS/NEI/NHLBI/NINCDS, Studies of Diabetes Mellitus and Related Problems	November	1
NIADDK	NIAID/NCI/NICHHD/NIGM, Liver Transplantation Research	November	1

**NIAID**

NIAID	Minority Research Enhancement Program	Open	
NIAID	Asthma and Allergic Disease Centers for Immunodermatologic Studies	October	15
NIAID	Centers: Asthma and Allergic Disease/Immunodermatologic Diseases (Letter of intent by 7/15/85)	October	15
NIAID	Centers for Interdisciplinary Research on Immunologic Diseases (Letter of intent by 7/15/85)	October	15
NIAID	Human Papilloma Viruses and Genital Warts	November	1
NIAID	Mechanisms of Action of the Drug Cyclosporine	November	1
NIAID	NINCDS/NIA, Persistent Viral Infections - Alzheimer's Disease	November	1
NIAID	Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
	New Grants	November	1
	New Investigator	November	1
	Career Development	February	1
	Physician Scientist	February	1
	Clinical Investigator	February	1
	Postdoctoral Fellow	February	1
	Americans and/or Hispanic Americans	November	7
NIAID	IAIDP-86-8, Screening, Characterization and Acquisition of Ante-Idiotypic Reagents for Histocompatibility Testing of Blacks, Native	November	7
NIAID	85-AI-06, Mechanism of Latency of Herpes Simplex Virus	November	15
NIAID	85-AI-07, Sexually Transmitted Diseases Research Unit	November	15
NIAID	IAIDP-86-7, Maintenance of an International Bone Marrow Transplant Registry	December	6
NIAID	IAIDP-86-6, A Clinical Trial for the Use of Monoclonal Antibodies in Bone Marrow	December	13

**NICHD**

NICHD	85-HD-11, Mechanisms of Immunologic Infertility	October	15
NICHD	85-HD-13, Cooperative Multicenter Program on Environmental Conditions for Non-Human In Vitro Fertilization and Preimplantation Development	October	15
NICHD	CRMC-85-14, Ethnic Differences in Life Style, Psychological Factors and Medical Care During Pregnancy	October	25
NICHD	Physical Activity in Pregnancy	November	1
NICHD	NHLBI, Hypertension in Pregnancy	November	1
NICHD	85-HD-12, Research on Teen Contraceptive Behavior	November	15

**NIDR**

NIDR	Small Grant Program	February	1
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**NIEHS**

NIEHS	ES-85-18, Genetics Monitoring of Inbred Rodents	October	31
NIEHS	NIADDK, Effect of Environmental Agents on the Endocrine System	November	1
NIEHS	Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	February	1
NIEHS	Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	February	1
NIEHS	Specialized Centers of Research in Genetic Toxicology	February	1

**NIGMS**

NIGMS	Cellular and Molecular Basis of Disease Research	November	1
NIGMS	Physiology and Biomedical Engineering	November	1
NIGMS	Genetics Research	November	1
NIGMS	Pharmacological Sciences	November	1

**NINCDS**

NINCDS	Research Grants Related to Basic Mechanisms in the Phakomatosis	November	1
NINCDS	Ostosclerosis and Early Progressive Deafness	November	1
NINCDS	Research Grants on Status Epilepticus	November	1
NINCDS	Research Grants on Basic Mechanisms of the Epilepsies	November	1
NINCDS	NIMH, Autism and Related Behavioral Disorders	December	1
NINCDS	Clinical Investigator Development Award	February	1
NINCDS	Multidisciplinary Research Centers for the Study of Neuro-Genetic Disorders of Infancy and Childhood (P50)	February	1

**NIOSH**

NIOSH	Research and Demonstrations Relating to Occupational Safety and Health:		
	Special Emphasis Research Career Award	November	1
	Small Grant Program	November	1
	Research Grants	November	1
	Demonstration Grants	November	1
	Program Project Grants	November	1

**NLM**

NLM	Integrated Academic Information Management Systems (IAIMS) Planning, Model Development, and Implementation	November	1
NLM	Investigator-Initiated Research Grants/New Investi- gator Research Awards	November	1



## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, New	November	1
ADAMHA/NIH/NCHSR, Research on Digestive Diseases:		
Research Grants	November	1
Research Career Development	February	1
ADAMHA, Individual Postdoctoral Fellowships	February	1
ADAMHA, Institutional Training Grants, NRSA	February	1
NIAAA, Research on Children of Alcoholics	November	1
NIAAA, Alcohol Resource Center Grants	November	1
NIAAA, Alcohol Research Grants	November	1
NIAAA, New Investigator Research Awards	November	1
NIAAA, Research Grants on Alcohol-Related Performance		
Effects and Traumatic Injury	November	1
NIAAA/NIDA/NIMH, Institutional NRSA Training	February	1
NIDA/NIAAA, Community Prevention Research in Alcohol and		
Drug Abuse	November	1
NIDA, Drug Abuse Prevention Research	November	1
NIMH, Research Support Programs	November	1
Small Grant Program (with NIAAA and NIDA)	Open	
Grants for Mental Health Service System Research	November	1
Geriatric Mental Health Academic Awards	November	1
Preventive Intervention Research Centers (PIRC)	November	1
Rape Center	November	1
Prevention Research Branch	November	1
New Investigator Research Award (NIRA) in Prevention		
(with NIAAA and NIDA)	November	1
Clinical Research Centers on Psychopathology of the Elderly	November	1
Clinical Investigator Award	November	1
Physician Scientist Award	November	1
Autism and Related Behavioral Disorders (with NINCDS)	November	1
Studies on Obesity (with NIH Institutes and NIDA)	November	1
Support for Child and Adolescent Mental Health Research and		
Research Training	November	1
Research on Mental Illness in Nursing Homes	November	1
AA-85-02, Research Grants on the Prevention of Alcohol,		
Drug Abuse, and Mental Health (ADM) Disorders at the		
Worksite (with NIAAA and NIDA)	November	1
Service System and Economic Research Programs	November	1
MH-86-03, Assessment of Mental Health Problems in Disaster		
Victims	November	1
MH-86-05, Prevention Research on Mutual Support Approaches		
with Bereaved Populations	November	1
MH-86-07, Research on Family Stress and the Care of		
Alzheimer's Disease Victims	November	1
MH-84-01, Research Support Programs: Neurosciences,		
Behavioral Sciences, Epidemiologic, Clinical Assessment		
and Etiological, Treatment, Prevention and Service Research		
New Regular Research Grants	November	1
Support for Child and Adolescent Mental Health Research		
and Research Training: Research Grants	November	1
Research Grants Program	November	1
Antidepressant Drugs in the Treatment of Anxiety Disorders	November	1
Clinical Research Centers on Psychopathology of the Elderly	November	1
MH-86-06, Research on Method for Studying Mental Health		
Service Systems	November	1

# OFFICE OF HUMAN DEVELOPMENT SERVICES

FY86 Coordinated Discretionary Funds Program

November 20

## CENTERS FOR DISEASE CONTROL

Cooperative Agreement for a Project to Promote Implementation of the Model Standards: A Guide for Community Preventative Health Services	FY85
Cooperative Agreement for a Project to Examine the State of the Art in Public Health and to Formulate Policy Options Related to the Future Roles, Functions, Organization, Research and Data Needs, and Manpower Implications for Public Health in General and for State and Local Health Departments in Particular	FY85
Research and Demonstrations Relating to Occupational Safety and Health - (SERCA Grants and Small Grants)	November 1

## DEPARTMENT OF EDUCATION

Math and Science Instruction Improvement Grants	October 29
Office of Postsecondary Education	
-Fulbright-Hays - Group Projects Abroad	November 4
-Fulbright-Hays - Foreign Curriculum Cons. Program	November 4
-Fulbright-Hays - Faculty/Doctoral Research Abroad	November 4
-International Research and Studies Program	November 4
-Undergraduate International Studies and Foreign Language Program	November 12
Office of Education Research and Improvement	
-Secondary Research Library Resources Program	November 6
OSERS-	
Preparation of Special Educators	November 15
Preparation of Related Services Personnel	November 15
Research in Education of the Handicapped:	
Extant Data Base Projects	December 13
Postsecondary Education Projects for Handicapped Persons:	
Postsecondary Demonstration Projects	December 16

## HEALTH CARE FINANCING ADMINISTRATION

Medicare and Medicaid Programs, Health Care Financing Research and Demonstration Cooperative Agreements and Grants (Waiver-only and discretionary funds awards)	November 4
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## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Advanced Nurse Training Grants	November 1
Nurse Practitioner Training Grants	November 1
Nursing Special Project Grants	November 1
Health Careers Opportunity Program	November 1
Competing Cooperative Agreements for Area Health Education Center Programs	December 14

**NATIONAL CENTER FOR HEALTH SERVICES RESEARCH**

Conference Grants (Preliminary submission required prior to formal application)	Open	
NCHSR Extramural Research	November	1
Grants for Health Service Dissertation Research	November	1

**NATIONAL SCIENCE FOUNDATION**

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Programs	Open	
Teacher Enhancement and Informal Science Education		
Presidential Awards for Excellence in Science and Mathematics Teaching	Open	
NATO Advanced Study Institute Travel Awards	November	1
NATO Postdoctoral Fellowships in Science	November	1

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	December	15
Grants for Engineering Research Equipment	December	16

\*NSF Proposals may be submitted for the following programs at any time of the year. It takes approximately six to nine months to process a proposal. Brochures indicated in parentheses may be ordered.

U.S.-Korea Cooperative Science (NSF 83-50). Short-term visits only. Contact Dr. Gerald Edwards (202) 357-9537	*
U.S.-East Asia Cooperative Science (NSF 83-50). Short-term visits only to the Philippines and Korea. Contact Dr. Gerald Edwards (202) 357-9537	*
U.S.-East Asia Cooperative Science (NSF 83-50). Excluding Philippines and Korea. Contact Dr. Gordon Hiebert (202) 357-9537	*
U.S.-India Cooperative Science (NSF 82-86). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402	*
U.S.-Pakistan Cooperative Science (NSF 80-49). Contact Dr. Osman Shinaishin or Dr. Jean Johnson (202) 357-9402	*
U.S.-China Cooperative Science (NSF 82-50). For information regarding field limitations contact Dr. Pierre Perrolle or Mr. Alexander DeAngelis (202) 357-7393	*

U.S.-Belgium Cooperative Science (NSF 83-73). Cooperative research projects, joint seminars (202) 357-7554 \*

U.S.-Japan Cooperative Science (NSF 81-58). Proposals from U.S. investigators for long-term visits to spend from 6 to 12 months conducting research in Japan (202) 357-9558 \*

U.S.-Japan Program for Cooperation in Photoconversion and Photosynthesis (NSF 83-11). Letter-proposals for visits up to two weeks in Japan to plan formal research in cooperation with Japanese investigators in the areas of photoconversion and photosynthesis (202) 357-9558 \*

NSF-NATO Exchange for International Academic-Industrial Exchanges of U.S. Scientists (Double Jump). Postdoctoral program for the exchange of scientists from the academic and industrial communities of the U.S. and NATO member countries (202) 357-7554 \*

U.S.-New Zealand Cooperative Science (NSF 81-50). Letter-proposals for short-term visits (limited to air fare and up to three weeks' per diem) to develop cooperative research in physical oceanography, air/sea interaction, marine geology, geophysics or biology (marine productivity) (202) 357-9558 \*

Research in Undergraduate Institutions (NSF 83-79). Contact appropriate disciplinary program in NSF for more specific target dates and number of copies of proposals needed or contact Dr. Joseph Danek, Director of Special Projects, Division of Research Initiation and Improvement (202) 357-7456 \*

Minority Research Initiation (NSF 80-42). Contact Dr. Roosevelt Calbert (202) 357-7350 \*

Synthetic Inorganic and Organometallic Chemistry (NSF 83-57). Contact Dr. Oren Williams (202) 357-7499 \*

Synthetic Organic and Natural Products Chemistry (NSF 83-57). Contact Dr. John Showell (202) 357-7499 \*

Chemical Analysis (NSF 83-57). Contact Dr. Henry Blount, III (202) 357-7503 \*

Chemical Instrumentation (NSF 83-57). Contact Dr. John Hunt (202) 357-7960 \*

Structural Chemistry and Thermodynamics (NSF 83-57). Contact Dr. William Harris (202) 357-9826 \*

Chemical Physics (NSF 83-57). Contact Dr. William Cramer (202) 357-7951 \*

Chemical Dynamics (NSF 83-57). Contact Dr. Richard Holder (202) 357-7956 \*

Instrumentation for Materials Research (NSF 82-79). Contact Dr. William Oosterhuis (202) 357-7570 \*

National Facilities. Contact Dr. Dean Mitchell (202) 357-9791 \*

Materials Research Laboratory. Contact Dr. Adriaan de Graaf (202) 357-9791 \*

Materials Research Group. Contact Dr. W. Lance Haworth (202) 357-9791 \*

Atomic, Molecular, and Plasma Physics. Contact Dr. Rolf Sinclair (202) 357-7997 \*

Elementary Particle Physics. Contact Dr. David Berley (202) 357-9575 \*

Gravitational Physics. Contact Dr. Richard Isaacson (202) 357-7979 \*

Intermediate Energy Nuclear Physics. Contact Dr. Peter Riley (202) 357-7992 \*  
 Nuclear Physics. Contact Dr. William Rodney (202) 357-7992 \*  
 Theoretical Physics. Contact Dr. Boris Kayser (202) 357-7979 \*  
 Aeronomy. Contact Dr. Andrew Christensen (202) 357-7619 \*  
 Atmospheric Chemistry. Contact Dr. Jarvis Moyers (202) 357-9657 \*  
 Experimental Meteorology. Contact Dr. Richard Greenfield (202) 357-9887 \*  
 Global Atmospheric Research. Contact Dr. Jay Fein (202) 357-9887 \*  
 Meteorology. Contact Dr. Ronald Taylor (202) 357-7624 \*  
 Solar Terrestrial. Contact Dr. Dennis Peacock (202) 357-7618 \*  
 Upper Atmospheric Facilities. Contact Dr. Richard Behnke (202) 357-7390 \*  
 Astronomical Instrumentation and Development. Contact Dr. G. W. Van Citters, Jr. (202) 357-9793 \*  
 Extragalactic Astronomy. Contact Dr. James Wright (202) 357-7639 \*  
 Galactic Astronomy. Contact Dr. Kurt Weiler (202) 357-7620 \*  
 Solar System Astronomy. Contact Dr. Kurt Weiler (202) 357-7620 \*  
 Stars and Stellar Evolution. Contact Dr. Peter Pesch (202) 357-7622 \*  
 Electromagnetic Spectrum. Contact Dr. Vernon Pankonin (202) 357-9696 \*  
 Anthropology. Doctoral Dissertation Proposals. Contact Ms. Mary Greene, Division of Behavioral and Neural Sciences (202) 357-7804 \*  
 Biological Research Resources. Contact Dr. James Tyler, Division of Biotic Systems and Resources (202) 357-7475 \*  
 Industry/University Cooperative Research Projects (NSF 82-56). Contact Dr. Frederick Betz (202) 357-7785 or Mr. Alex Schwarzkopf (202) 357-7527, Division of Industrial Science and Technology Innovation. \*  
 Industry/University Cooperative Research Centers. Contact Mr. Robert Colton or Mr. Alex Schwarzkopf, Division of Industrial Science and Technological Innovation (202) 357-7527 \*  
 Research in Information Science and Technology (NSF 81-34 and 81-69). Contact Dr. Charles Brownstein, Division of Information Science and Technology (202) 357-9572 \*  
 Alternative Biological Resources (NSF 83-96). Contact Dr. H. Huang, Division of Molecular Biosciences (202) 357-9782 \*  
 Mathematical Sciences. Programs for disciplinary research include Classical Analysis, Modern Analysis, Geometric Analysis, Topology and Foundations, Algebra and Number Theory, Applied Mathematics, and Statistics and Probability. Contact the appropriate disciplinary program for guidelines for the submission of proposals. Division of Mathematical Sciences (202) 357-9764 \*

## DEPARTMENT OF COMMERCE

National Bureau of Standards; Center for Manufacturing  
Engineering, Automated Manufacturing Research Facility  
(AMRF) Research Grants Program Open

## DEPARTMENT OF DEFENSE

Office of Naval Research  
Strategic Defense Initiative Open  
Young Investigator Program Open  
Strategic Defense Initiative Innovative Science and  
Technology Office Open  
U.S. Air Force  
University Resident Research Program Open  
University Research Instruction Program November 15

## DEPARTMENT OF ENERGY

Office of Energy Research Open  
Special Research Grants Programs Open

## DEPARTMENT OF JUSTICE

Office of Juvenile Justice and Delinquency Prevention  
Research and Program Development Programs Open  
National Institute of Justice  
Visiting Fellowships November 15

## ENVIRONMENTAL PROTECTION AGENCY

Environmental Protection-Consolidation Research Open  
Air Pollution Control Research Grants Open  
Pesticides Control Research Open  
Solid Waste Disposal Research Open  
Water Pollution Control-Research, Development, and  
Demonstration Grants Open  
Safe Drinking Water Research and Demonstration Toxic  
Substances Research Open

## INSTITUTE OF MUSEUM SERVICES

General Operating Support Program November 15

## NATIONAL ENDOWMENT FOR THE ARTS

U.S./French Exchange Program: Deadline varies with  
Discipline Various  
Museum  
Special Projects Open

## NATIONAL ENDOWMENT FOR THE HUMANITIES

Younger Scholars Program	November	1
Exemplary Projects in Undergraduate and Graduate Education	December	1

## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts Senior Fellowship Program	October	15
Visiting Senior Fellowships and Associates (For 9/16/86-2/28/87)	March	21

## U.S. INFORMATION AGENCY

Bureau of Educational and Cultural Affairs	October	15
1986-87 Fulbright Teacher Exchange Program	October	15

## NONFEDERAL

American Cancer Society Research and Clinical Investigation Grants	November	1
American Chemical Society - Petroleum Research Fund Grants-in-Aid	No Deadline	
American Council of Learned Societies Travel Grants for Humanists to International Meetings Abroad	November	1
Grants for Chinese Studies	December	2
Grants for East European Studies	December	2
Grants-in-Aid	December	15
American Heart Association - Minnesota Affiliate Postdoctoral Research Fellowships	November	15
Grants-in-Aid	December	15
American Lung Association Research Grants	November	1
Career Investigator Awards	November	1
American Philosophical Society Grants-in-Aid	Various--Contact ORA	
Annenberg/Corporation for Public Broadcasting Education Through Telecommunications Preliminary Applications	October	10
Full Proposals	January	28
Bosch Foundation Fellowship Program	No Deadline	
Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)	No Deadline	
Canadian Embassy - Canadian Studies Grant Programmes 1986 Canadian Studies Faculty Enrichment Programme	October	31
Canadian Studies Senior Fellowship Award	October	31
Canadian Studies Graduate Student Fellowship	October	31
Carnegie Corporation	No Deadline	
Center for Field Research (Earthwatch) Latin America Field Research Grants	No Deadline	
Damon Ruyon Walter Winchell Cancer Fund Fellowship Grants	December	15
Human Cancer-Directed Fellowship Grants	December	15
Distilled Spirits Council of the United States Grants-in-Aid for Research	November	1
Edna McConnell Clark Foundation	No Deadline	

Engineering Foundation (Pre-proposals)	No Deadline
Exxon Education Foundation - Grants for Curriculum and Teaching and Management of Higher Education Programs	Open
Gas Research Foundation	
Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
German Marshall Fund	
Research Fellowships	No Deadline
Short-Term Travel Awards	No Deadline
John A. Hartford Foundation	
To Improve Drug Prescribing, Monitoring and Use Among the Elderly	November 1
International Foundation of Employee Benefit Plans	
Postdoctoral Grants-in-Aid	Open
Jessie B. Cox Charitable Trust	October 31
Robert Wood Johnson Foundation	
Dental Services Research Scholars Program 1985	November 1
Kaltenborn Foundation	
Grants for Scholarly Studies in Communication	Open
Kellogg Foundation	
National Fellowship Program: Group VII	December 31
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous
MacArthur Foundation	
International Security Program	Open
March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
Small Grant	No Deadline
Independent Scholar's Program	December 31
Minnesota State Arts Board	
Expansion Arts	October 14
Visual Arts	November 1
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Association	
Grants-in-Aid	
Request for Application	November 30
Final Application	December 31
National Fund for Medical Education	
Fellowships in Medical Education	November 1
National Geographic Society	
Grants-in-Aid	No Deadline
National Pork Producers Council	December 15
Pfizer Postdoctoral Fellowship Program	November 1
Research Corporation	
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline
Rockefeller Foundation	
Research on the Genetic Engineering of Rice	Open
Alfred P. Sloan Foundation	No Deadline



Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial Instrumentation - Pre-proposals	No Deadline
Thrasher Research Fund	
Grants in Nutrition, Infectious Diseases, Health Promotion	No Deadline
Tinker Foundation	
Tinker Postdoctoral Fellowship Program	December 15
University Genetics Company (UGEN)	No Deadline
Villers Foundation	No Deadline
Whitehill Foundation, Inc.	
Research Grants and Grants-in-Aid	December 1

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

# ORA RDC Newsletter

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## DIVISION OF RESEARCH GRANTS (DRG) IMPLEMENTS NEW POLICY RELEVANT TO MAILING OF CONTINUATION APPLICATION KITS PHS 6025-2 AND PHS 416-9

As you are aware, the distribution of continuation kits for regular research grants has been delegated by DRG to the institution control office, namely ORTTA for the University of Minnesota. Effective immediately, this same policy will now apply to PHS 6025-2 (training application kits, including NRSA awards) and PHS 416-9 (fellowship application kits).

All programs in the "K" series (e.g., Research Career Development Award (K04), Clinical Investigator Award (K08), Research Scientist Award (K05), will use continuation form PHS 2590 which will be distributed through institutional control offices. The only exception is the Research Career Award (K06). Career Award applications will continue to be mailed directly to the awardee.

Additional program instructions are included where applicable, e.g., Short-term Training applications (T35s). The Research Career Development Award (K04) additional instructions are to be used with the form PHS 2590.

### IMPORTANT

PLEASE PAY SPECIAL ATTENTION TO THE FOLLOWING WHEN COMPLETING ALL CONTINUATION APPLICATION KITS.

1. Read all instructions thoroughly.
2. Have the application signed by the authorized official of your grantee organization before mailing to the Division of Research Grants, NIH.
3. Do not BIND or STAPLE ORIGINAL or COPIES of application.
4. Return the two part application receipt card, PHS 3830, after completing both sides of the card. Please complete all pertinent information.

Questions relevant to this change should be addressed to ORTTA, 373-1970.

## NEW APPLICATION RECEIPT DEADLINES ANNOUNCED FOR NATIONAL INSTITUTES OF HEALTH (NIH) PROPOSALS, EFFECTIVE 1/1/86

NIH has changed their receipt deadlines as detailed below. Accordingly, those investigators planning to submit new, individual or institutional, NRSA

proposals (National Research Service Awards) on February 1 are advised that the deadline date is moved to January 10. Investigators planning to submit new research grant applications under the March 1 deadline are advised that the submission date is changed to February 1. Competing continuation (renewals) and supplemental applications normally submitted on February 1, will be due March 1. Also due February 1, as previously, will be Research Center Development Awards, Research Scientist Awards, new and competing continuation (renewal) program project and center grant applications, and Conference Grant applications.

NEW APPLICATION RECEIPT DEADLINES  
FOR THE NATIONAL INSTITUTES OF HEALTH  
\*EFFECTIVE JANUARY 1, 1986

Jan. 10	Feb. 1	Mar. 1	Apr. 15
May 10	June 1	July 1	Aug. 15
Sept. 10	Oct. 1	Nov. 1	Dec. 15
for	for	for	for
All individual National Research Service Award applications.	All new research grant applications <u>unless specified differently in a Program Announcement or Request for Applications notice.</u>	Competing continuation and supplemental grant applications.	Small Business Innovation (SBIR) Program, both phases. (Phase II applicants must have completed a federally funded Phase I project.)
All new and competing continuation institutional NRSA training grant applications.	Career Development awards and conference grant applications.		
	New and competing continuation Program Project and Center applications.		

<u>INITIAL REVIEW</u>	<u>ADVISORY COUNCIL</u>	<u>EARLY START DATE</u>	for applications submitted:
May/June	Sept./Oct.	Dec. 1	Jan. 10; Feb. 1; Mar. 1; Apr. 15
Oct./Nov.	Jan./Feb.	Apr. 1	May 10; June 1; July 1; Aug. 15
Feb./Mar.	May/June	July 1	Sept. 10; Oct. 1; Nov. 1; Dec. 15

All applications must be received by the above dates. If the receipt date falls on a weekend, it will be extended to Monday; if the date falls on a holiday, it will be extended to the following workday.

## **ENVIRONMENTAL PROTECTION AGENCY (EPA) PUBLICATIONS ANNOUNCEMENT**

The Environmental Protection Agency's Office of Research and Development announces the availability of printed publications on a wide range of environmental topics. The ORD Publications Announcement (May-August 1985) lists the titles of the publications which are available. If anyone is interested in this listing, please contact Mary Bergaas at 373-2784.

## **RESEARCH INSTRUMENTATION PROGRAM (DEPARTMENT OF ENERGY)**

The Department of Energy invites the submission of applications for its University Research Instrumentation program. This program is intended to help strengthen the ability of universities to conduct long-range, energy-related research by assisting them in acquiring some of the specialized research instrumentation which is required. All areas of energy research will be eligible. However, in FY 1986 the funds will be used principally to support instrumentation required for advanced research in four major areas:

1. Advanced Materials Characterization, Synthesis, and Processing Science
2. Catalysis (Heterogeneous and Homogeneous), Photochemistry and Photocatalysis
3. Engineering Sciences
4. Health and Environmental Effects of Energy Development and Use.

Deadline for receipt of applications is December 6, 1985. A maximum of four applications may be submitted by each institution. Copies of the guidelines and application forms may be obtained by contacting Winifred Schumi at 376-7353.

## **COMPETITIVE RESEARCH GRANTS PROGRAM - U.S. DEPARTMENT OF AGRICULTURE**

The Department of Agriculture invites applications for new competitive grants under the Competitive Research Grants Program for fiscal year 1986. Top priority are proposals that address fundamental questions in all research areas and those that tackle national, long-range agricultural needs.

Research areas and their respective deadline dates are listed in the deadline section of this Newsletter. A copy of the application and guidelines can be obtained by calling ORTTA at 376-7689.

## **MCKNIGHT SCHOLARS AWARD**

The McKnight Foundation supports a program of Scholar Awards to stimulate research in neuroscience. Five awardees are selected each year for awards of a three year duration.

McKnight Scholars will be selected from applicants who hold the M.D. and/or Ph.D. degree and who have not completed more than five years of postdoctoral research (exclusive of clinical training - M.D., etc.).

Applications must be received by the Foundation no later than January 2, 1986.

Potential applicants should contact The McKnight Foundation office at (612)333-4220 to request application materials.

#### **THE KRESGE FOUNDATION YEAR-ROUND APPLICATION PERIOD**

Beginning December 1, 1985, The Kresge Foundation will accept applications at any time. Heretofore, the application submission period was limited to the first six weeks of each year. The Trustees believe the change will provide greater accessibility and should permit earlier responses to applications.

The Foundation provides funds, on a challenge basis, for projects involving a) construction of facilities, b) the renovation of facilities, c) the purchase of major capital equipment or an integrated system at a cost of at least \$75,000, and d) the purchase of real estate. A copy of their policies and application procedures pamphlet can be obtained from ORTTA by calling 376-7689.

#### **AMERICAN CANCER SOCIETY (ACS) INSTITUTIONAL RESEARCH GRANT AWARD**

The University of Minnesota has been awarded a renewal of its Institutional Research grant from the American Cancer Society (ACS) for 1986-1987. This fund is intended to serve as "seed" money permitting the initiation of promising new projects or novel ideas, especially by junior investigators, in cancer-related research. Encouragement of cancer research may also be facilitated by support of seminars on cancer-related topics, and by graduate student research. The fund is administered by a Dean's Committee of the Medical School with representation from other biologically-oriented colleges. The Committee is now accepting applications for individual grants not to exceed \$7,500 from this fund. Instructions and application forms may be obtained from the Dean's Committee for the ACS Institutional Research Grant, Room 421 Masonic Cancer Center, 373-4318. Deadline: February 15, 1986.

#### **SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS**

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORTTA CONTACT NUMBERS FOR DEADLINE/PROGRAM INFORMATION ARE 376-7358 OR 376-7689.

# FEDERAL

## NATIONAL INSTITUTES OF HEALTH

### NIH

NIH	Fogarty International Center, Eastern European Scientist Exchange Program, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
NIH	Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
NIH	Biomedical Research Support Grants	January	2
NIH	National Research Service Awards for Senior Fellows	January	10
NIH	National Research Service Awards for Individual Postdoctoral Fellows	January	10
NIH	National Research Service Award Institutional Grants	January	10
NIH	Institutional Training Programs	January	10
NIH	Research Grants, New	February	1
NIH	New Investigator Awards	February	1
NIH	Research Career Development Awards	February	1
NIH	Individual Postdoctoral Fellowships	February	1
NIH	Support of Scientific Meetings	February	1
NIH	Research Grants, Renewals	March	1

### NCI

NCI	Cancer Control Science Associates Program	November	22
NCI	CH-57749-16		
	Cultivation of Marine Microorganisms	December	1
NCI	Development and Assessment of Retroviral Vaccine (NCI/NIAID)	December	13
NCI	Human Exogenous and Endogenous Retroviruses	December	13
NCI	Cancer Education Program	February	1
NCI	Comprehensive Minority Biomedical Program - Minority Satellite Supplement	February	1
NCI	Comprehensive Minority Biomedical Program - Minority Investigator Supplement	February	1
NCI	Multinuclear Magnetic Resonance Imaging and Spectroscopy	February	1
NCI	Dose Fractionation and Volume Late Effects in Normal Tissues	February	1
NCI	Feline Retroviruses	February	1
NCI	Outstanding Investigators Grant	May	15

### NEI

NEI	Small Grants Program for Pilot Projects	February	1
NEI	NHLBI/NIAID/NIAMDD/NICHHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	February	1

**NHLBI**

NHLBI	85-HL-29B, Regulation of the Cloned Human Beta-Globin Gene	November	15
NHLBI	RFA-85-HL-02-L, Specialized Centers of Research and National Research and Demonstration Centers: Chronic Diseases of the Airways/Occupational and Immunological Lung Diseases/Pulmonary Vascular Diseases	December	2
NHLBI	85-HL-27-H, Molecular Characterization of Ion Channels in the Myocardial Sarcolemma (letter of intent - 8/15/85)	December	16
NHLBI	85-HL-28-L, Alpha-1-Protenase Inhibitor Deficiency and Emphysema-Molecular Studies	December	16
NHLBI	Research Career Development Award: Basic Science Related to the Respiratory System	February	1
NHLBI	Research Training and Development Area: National Research Service Award Programs		
	Institutional Research Training Grant Award	January	10
	Individual Postdoctoral Fellowship Award	January	10
	Senior Research Fellowship Award	January	10
	Research Career Development Programs		
	Research Career Development Award	February	1
	Clinical Investigator Award	February	1
	Physician Scientist Award	February	1
	Special Emphasis Research Career Award: Diabetes Mellitus	February	1
NHLBI	Physical Activity and Fitness Assessment Methods	February	18
NHLBI	Hemostatic Defects on Renal Fracture: Pathogenesis and Treatment	February	18
NHLBI	Membrane Transport, Permeability, Volume Control in Sickle Cell Disease	February	18
NHLBI	Fundamental Studies of Cardiac Morphogenesis (Letter of intent - December 31, 1985)	March	15
NHLBI	Biological Mechanisms of Nutrient Effects of Blood Pressures	April	1
NHLBI	Development and Differentiation of Airway Epithelium (Letter of intent - February 15)	April	1
NHLBI	Preventive Cardiology Academic Award	April	1

**NIA**

NIA	85-AG-01, Neurologic, Muscular, Perceptual, and Cardiovascular Aspects of Falls and Gait Disorders in Eldering People	November	15
NIA	Aging and Visual Perception Postdoctoral Fellow	February	1
	Program Project	February	1
NIA	Health Behaviors and Aging: Behavioral Geriatrics Research	February	1
NIA	NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	February	1
NIA	NIAID/NIADDK/NICHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	February	1
NIA	Complementary Training Awards for Research on Aging	February	1

**NIADDKD**

NIADDK	Kidney and Urological Research Center (Letter of intent - January 15)	March	15
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**NIAID**

NIAID	Minority Research Enhancement Program	Open	
NIAID	85-AI-06, Mechanism of Latency of Herpes Simplex Virus	November	15
NIAID	85-AI-07, Sexually Transmitted Diseases Research Unit	November	15
NIAID	IAIDP-86-7, Maintenance of an International Bone Marrow Transplant Registry	December	6
NIAID	IAIDP-86-6, A Clinical Trial for the Use of Monoclonal Antibodies in Bone Marrow	December	13
NIAID	Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
	Career Development	February	1
	Physician Scientist	February	1
	Clinical Investigator	February	1
	Postdoctoral Fellow	February	1

**NICHD**

NICHD	85-HD-12, Research on Teen Contraceptive Behavior	November	15
NICHD	Trophectoderm/Blastule Development	February	18

**NIDR**

NIDR	Small Grant Program	February	1
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**NIEHS**

NIEHS	Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	February	1
NIEHS	Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	February	1
NIEHS	Specialized Centers of Research in Genetic Toxicology	February	1

**NIGMS**

NIGMS	Cellular and Molecular Basis of Disease Research	February	1
NIGMS	Physiology and Biomedical Engineering	February	1
NIGMS	Genetic Research	February	1
NIGMS	Pharmacological Sciences	February	1

**NINCDS**

NINCDS	NIMH, Autism and Related Behavioral Disorders	December	1
NINCDS	Clinical Investigator Development Award	February	1
NINCDS	Multidisciplinary Research Centers for the Study of Neuro-Genetic Disorders of Infancy and Childhood (P50)	February	1



## NIOSH

NIOSH	Research and Demonstrations Relating to Occupational Safety and Health:		
	Special Emphasis Research Career Award	February	1
	Small Grant Program	February	1
	Research Grants	February	1
	Demonstration Grants	February	1
	Program Project Grants	February	1

## NLM

NLM	Investigator-Initiated Research Grants/New Investigator Research Awards	February	1
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## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, New	February	1
ADAMHA/NIH/NCHSR, Research on Digestive Diseases:		
Research Grants	February	1
Research Career Development	February	1
ADAMHA, Individual Postdoctoral Fellowships	February	1
ADAMHA, Institutional Training Grants, NRSA	February	1
ADAMHA, Research Scientist Development Award	February	1
ADAMHA, Research Scientist Award	February	1
NIAAA, Research on Children of Alcoholics	February	1
NIAAA, Alcohol Resource Center Grants	February	1
NIAAA, Alcohol Research Grants	February	1
NIAAA, New Investigator Research Awards	February	1
NIAAA, Research Grants on Alcohol-Related Performance Effects and Traumatic Injury	February	1
NIAAA/NIDA/NIMH, Institutional NRSA Training	February	1
NIDA/NIAAA, Community Prevention Research in Alcohol and Drug Abuse	February	1
NIDA, Drug Abuse Prevention Research	February	1
NIMH, Research Support Programs	February	1
Small Grant Program (with NIAAA and NIDA)	Open	
Grants for Mental Health Service System Research	February	1
Geriatric Mental Health Academic Awards	February	1
Preventive Intervention Research Centers (PIRC)	February	1
Rape Center	February	1
Prevention Research Branch	February	1
New Investigator Research Award (NIRA) in Prevention (with NIAAA and NIDA)	February	1
Clinical Research Centers on Psychopathology of the Elderly	February	1
Clinical Investigator Award	February	1
Physician Scientist Award	February	1
Autism and Related Behavioral Disorders (with NINCDS)	February	1
Studies on Obesity (with NIH Institutes and NIDA)	February	1
Support for Child and Adolescent Mental Health Research and Research Training	February	1
Research on Mental Illness in Nursing Homes	February	1
AA-85-02, Research Grants on the Prevention of Alcohol, Drug Abuse, and Mental Health (ADM) Disorders at the Worksite (with NIAAA and NIDA)	February	1
Service System and Economic Research Programs	February	1

MH-86-03, Assessment of Mental Health Problems in Disaster Victims	February	1
MH-86-05, Prevention Research on Mutual Support Approaches with Bereaved Populations	February	1
MH-86-07, Research on Family Stress and the Care of Alzheimer's Disease Victims	February	1
MH-84-01, Research Support Programs: Neurosciences, Behavioral Sciences, Epidemiologic, Clinical Assessment and Etiological, Treatment, Prevention and Service Research New Regular Research Grants	February	1
Support for Child and Adolescent Mental Health Research and Research Training: Research Grants	February	1
Research Grants Program	February	1
Antidepressant Drugs in the Treatment of Anxiety Disorders	February	1
Clinical Research Centers on Psychopathology of the Elderly	February	1
MH-86-06, Research on Method for Studying Mental Health Service Systems	February	1
Research Reimbursement Issues in Mental Health Services Delivery	March	1

## OFFICE OF HUMAN DEVELOPMENT SERVICES

FY86 Coordinated Discretionary Funds Program	November	20
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## DEPARTMENT OF EDUCATION

Inservice Training - Handicapped Early Education	January	20
Innovation Grants - National Institute of Handicapped Research	until July	1
Office of Postsecondary Education		
International Research and Studies Program (Non-competing continuation)	February	21
Upward Bound Program	December	16
Natural Resources Centers Program (Non-competing continuation)	December	2
Foreign Language and Area Studies Fellowships Program (Non-competing continuations)	December	2
Public Service Education Fellowships	December	20
Cooperative Education Program		
New Awards	January	10
Non-competing continuation	February	10
OSERS-		
Preparation of Special Educators	November	15
Preparation of Related Services Personnel	November	15
Handicapped Childrens' Early Education Program	January	20
Severely Handicapped Childrens' Innovative Programs	March	21
Research in Education of the Handicapped:		
Extant Data Base Projects	December	13
Postsecondary Education Projects for Handicapped Persons:		
Postsecondary Demonstration Projects	December	16

## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Competing Cooperative Agreements for Area Health Education Center Programs	December	14
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## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required  
prior to formal application)

Open

## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Program	Open
Teacher Enhancement and Informal Science Education	
Presidential Awards for Excellence in Science and Mathematics Teaching	Open
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	December 1
Scientific Computing Research Equipment for the Mathematical Sciences. Special Projects Program, Division of Mathematical Sciences (357-9764).	December 1
Research Improvement in Minority Institutions. (Brochure NSF 84-64). Dr. Roosevelt Calbert, Division of Research Initiation and Improvement (357-7350).	December 1
U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for short-term visits only to plan scientific research or carry out short, self-contained research activities. Division of International Programs (375-7554).	December 15
University/Industry/Government Partnership for Quality Engineering Personnel. (Brochure NSF 85-46). Dr. William Butcher, Directorate for Engineering (357-9834).	December 16
U.S.-Korea Cooperative Science. (Brochure NSF 83-50). Proposals for long-term visits and cooperative research. Dr. Gerald Edwards, Division of International Programs (357-9537).	January 1
Terrestrial and Freshwater Biological Field Stations Special Competition. (Brochure NSF 85-47). Dr. James Edwards, Division of Biotic Systems and Resources (357-7475).	January 2
Marine Biological Laboratories Special Competition. (Brochure NSF 85-48). Dr. James Edwards, Division of Biotic Systems and Resources (375-7475).	January 2
Postdoctoral Research Fellowships in Plant Biology. Dr. H. T. Huang, Division of Molecular Biosciences (357-9782).	January 10

Research at the Interface of Chemistry and Biology. Dr. Mary Clutter, Division of Cellular Biosciences (357-7905); Dr. James Brown, Division of Molecular Biosciences (357-9400); Dr. Richard Louttit, Division of Behavioral and Neural Sciences (357-7564); or Dr. C. William Kern, Division of Chemistry (357-7947).	January	15
U.S.-Japan Program of Cooperation in Photoconversion and Photosynthesis. (Brochure NSF 83-11). Proposals for long- and short-term visits for research; project development 2-week visit letter- proposals are accepted throughout the year. Division of International Programs (357-9558).	January	15
Earthquake Engineering Research Center. Dr. Michael Gaus, Division of Fundamental Research in Emerging and Critical Engineering Systems (357-9500).	January	15
Analysis of Science Resources. Dr. Donald Buzzelli, Science Resources Studies (634-4682).	January	15
Special Research Initiation Awards for New Investigators in Information Science and Technology. (Brochures NSF 81-34 and 81-69). Dr. Charles Brownstein, Division of Information Science and Technology (357-9700).	March	1
U.S.-Federal Republic of Germany Cooperative Science. (Brochure NSF 83-73). Semi-annual deadline for proposals for joint research and seminars. Division of International Programs (357-9700).	March	1
Cooperative Science Activities with Denmark, Iceland, the Netherlands, and Norway. (Brochure NSF 83-73). Division of International Programs (357-9700).	March	1
U.S.-Finland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	March	1
U.S.-Sweden Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	March	1
U.S.-Switzerland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-9700).	March	1
U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for cooperative research projects commencing in 1987; joint seminars, exchange of scientists, and short-term visits. Division of International Programs (357-7554).	March	31
U.S.-United Kingdom Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	April	1
U.S.-Australia Cooperative Science. All proposals for projects beginning any time in 1987. Division of International Programs (357-9558).	April	1
<u>Target Dates for NSF Proposals:</u> Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.		
Informal Science Education. (Brochure NSF 85-9). Mr. George Tressel, Division of Teacher Enhancement and Informal Science Education (357-7076).	December	1
Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	December	15

Engineering Research Equipment Grants. (Brochure NSF 84-51). Technical inquiries concerning programs should be made to the appropriate Engineering Division: Chemical, Biochemical and Thermal Engineering (357-9606); Mechanics, Structure and Materials Engineering (357-9542); Electrical, Communications, and Systems Engineering (357-9618); Design, Manufacturing, and Computer Engineering (357-7508); Fundamental Research in Emerging and Critical Systems (357-9545). Administrative inquiries may be directed to Ms. Janice Apruzese, Office of the Deputy Assistant Director for Engineering (357-9834).	December	15
Local and Regional Teacher Development. (Brochure NSF 85-9). Dr. Charles Puglia, Division of Teacher Enhancement and Informal Science Education (357-7539).	December	15
Leadership Activities for Precollege Teachers. (Brochure NSF 85-9). Dr. Larry Hatfield, Division of Teacher Enhancement and Informal Science Education (357-9734).	December	15
Grants for Engineering Research Equipment Ecology. (Brochure NSF 84-68). Dr. Patrick Flanagan, Division of Biotic Systems and Resources (357-9734).	December	16
Population Biology and Physiological Ecology. (Brochure NSF 84-68). Dr. James Collins, Division of Biotic Systems and Resources (357-9728).	December	16
Ecosystem Studies. (Brochure NSF 84-68). Dr. James Gosz, Division of Biotic Systems and Resources (357-9596).	December	16
Systematic Anthropological Collections. (Brochure NSF 83-82). Ms. Mary Greene, Division of Social and Economic Science (357-7804).	January	1
Ocean Drilling Program, U.S. Science. Dr. Garrett Brass, Division of Ocean Sciences (357-9849).	January	1
Sub-Saharan Africa Cooperative Science. (Brochure NSF 84-26). Dr. Osman Shinaishin, Division of International Programs (357-9550).	January	1
Anthropology. (Brochure NSF 84-72). Dr. John Yellen or Dr. Stuart Plattner, Division of Behavioral and Neural Sciences (357-7804).	January	1
Social and Developmental Psychology. (Brochure NSF 84-72). Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (357-9485).	January	1
Economics. Dr. James Blackman, Dr. Daniel Newlon or Dr. Lynn Pollnow, Division of Social and Economics Science (357-9674).	January	1
Geography and Regional Science. Dr. Ronald Abler, Division of Social and Economic Science (357-7326).	January	1
History and Philosophy of Science. Dr. Ronald Overman or Ms. Dorothy Greene, Division of Social and Economic Science (357-9677).	January	1
Law and Social Sciences. Dr. Felice Levine or Ms. Bonney Sheahan, Division of Social and Economic Science (357-9567).	January	1
Decision and Management Science. Dr. Robert Thrall (357-7569) or Dr. Vincent Covello (357-7417), Division of Social and Economic Science.	January	1
Measurement Methods and Data Improvement. Dr. Murray Aborn or Dr. Sara Nerlove, Division of Social and Economic Science (357-7913).	January	1
Political Science. Dr. Frank Scioli, Jr. or Dr. Lee Sigelman, Division of Social and Economic Science (357-9406).	January	1

Sociology. Dr. Mark Abrahamson or Dr. Stanley Presser, Division of Social and Economic Science (357-7802).	January	1
Systematic Biology. (Brochure NSF 84-68). Dr. James Rodman, Division of Biotic Systems and Resources (357-9588).	January	15
Integrative Neural Systems. (Brochure NSF 84-72). Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (357-7040).	January	15
Molecular and Cellular Neurobiology. (Brochure NSF 84-17). Dr. Stephen Morris, Division of Behavioral and Neural Sciences (357-7471).	January	15
Developmental Neuroscience. (Brochure NSF 84-72). Dr. Carol Welt, Division of Behavioral and Neural Sciences (375-7428).	January	15
Sensory Physiology and Perception. (Brochure NSF 84-72). Dr. Kathie Olsen, Division of Behavioral and Neural Sciences (357-7949).	January	15
Cell Biology. (Brochure NSF 85-11). Dr. Arnold Kaplan or Dr. Gertrude Kasebekar, Division of Cellular Biosciences (357-7474).	February	1
Cellular Physiology. (Brochure NSF 85-11). Dr. Maryanne Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (357-7377).	February	1
Developmental Biology. (Brochure NSF 85-11). Dr. Joseph Mascarenhas, Division of Cellular Biosciences (357-7989).	February	1
Eukaryotic Genetics. (Brochure NSF 85-11). Dr. DeLill Nasser, Division of Cellular Biosciences (375-0112).	February	1
Regulatory Biology. (Brochure NSF 85-11). Dr. Lewis Greenwald or Dr. Elvira Doman, Division of Cellular Biosciences (357-7975).	February	1
Biological Oceanography, Chemical Oceanography, Marine Geology and Geophysics, Physical Oceanography. Dr. Robert Wall, Division of Ocean Sciences (357-7924).	February	1
Ocean Sciences Instrumentation Development. (Brochure NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	February	1
Linguistics. (Brochure NSF 84-72). Dr. Paul Chapin, Division of Behavioral and Neural Sciences (357-7696).	February	1
Memory and Cognitive Processes. (Brochure NSF 84-72). Dr. Joseph Young, Division of Behavioral and Neural Sciences (357-9898).	February	1
U.S.-Yugoslavia Cooperative Research. Cooperative research projects. Proposals should not be submitted to NSF (infor- mation copies are appreciated) but to FAISECTC in Yugoslavia. Dr. Gerson Sher, Division of International Programs (357-7494).	April	1

## DEPARTMENT OF COMMERCE

National Bureau of Standards; Center for Manufacturing  
Engineering, Automated Manufacturing Research Facility  
(AMRF) Research Grants Program

Open

## DEPARTMENT OF DEFENSE

Office of Naval Research	
Strategic Defense Initiative	Open
Young Investigator Program	December 18
Strategic Defense Initiative Innovative Science and Technology Office	Open
U.S. Air Force	
University Resident Research Program	Open
University Research Instrumentation Program	November 15

## DEPARTMENT OF ENERGY

Office of Energy Research	
University Research Instrumentation Program 1986	December 6
Special Research Grants Programs	Open

## DEPARTMENT OF JUSTICE

Office of Juvenile Justice and Delinquency Prevention	
Research and Program Development Programs	Open
Causes and Correlations of Delinquency	December 2
School Crime and Discipline Research & Development Program	December 6
National Institute of Justice	
Visiting Fellowships	November 15
Alternative Police Responses to Spouse Assault	March 4

## ENVIRONMENTAL PROTECTION AGENCY

Environmental Protection-Consolidation Research	Open
Air Pollution Control Research Grants	Open
Pesticides Control Research	Open
Solid Waste Disposal Research	Open
Water Pollution Control-Research, Development, and Demonstration Grants	Open
Safe Drinking Water Research and Demonstration Toxic Substances Research	Open

## INSTITUTE OF MUSEUM SERVICES

General Operating Support Program	November 15
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## NATIONAL ENDOWMENT FOR THE ARTS

U.S./French Exchange Program: Deadline varies with Discipline	Various
Museum Special Projects	Open

## NATIONAL ENDOWMENT FOR THE HUMANITIES

Exemplary Projects in Undergraduate and Graduate Education December 1

## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts  
Visiting Senior Fellowships and Associates  
(For 9/16/86-2/28/87) March 21

## NATIONAL RESEARCH COUNCIL

Associateship Programs (JH 608/S-4) January 15  
Ford Foundation Postdoctoral Fellowships for Minorities January 17

## U.S. DEPARTMENT OF AGRICULTURE

Competitive Research Grants Program  
Plant Science  
Biological Stress in Plants November 12  
Photosynthesis November 12  
Biological Nitrogen Fixation February 17  
Genetic Mechanisms for Crop Improvement March 3  
Biotechnology  
Molecular and Cellular Mechanisms for Growth and  
Development (Plant Studies) January 13  
Molecular Biology (Animal) February 17  
Genetic & Molecular Mechanisms Controlling Responses  
to Physical and Biological Stress February 24  
Animal Science  
Reproductive Physiology February 10  
Brucellosis February 17  
Insect Pest Science February 24  
Alcohol Fuels February 10  
Soybean Various

## U.S. INFORMATION AGENCY

Bureau of Educational and Cultural Affairs  
University Affiliations Program February 18

## NONFEDERAL

Advanced Technology Innovations, Inc. November 22  
American Chemical Society - Petroleum Research Fund  
Grants-in-Aid No Deadline  
American Council of Learned Societies  
Grants for Chinese Studies December 2  
Grants for East European Studies December 2  
Grants-in-Aid December 15  
China Conference Travel Grants January 1  
Mellon Chinese Summer Language Grants February 15



American Heart Association - Minnesota Affiliate	
Postdoctoral Research Fellowships	November 15
Grants-in-Aid	December 15
American Numismatic Society	
1986 Grants for Summer Study in Numismatics	March 1
American Philosophical Society	
Grants-in-Aid	Various--Contact ORA
Annenberg/Corporation for Public Broadcasting	
Education Through Telecommunications	
Full Proposals	January 28
AARP-Andrus Foundation	December 2
Bosch Foundation Fellowship Program	No Deadline
Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)	No Deadline
Carnegie Corporation	No Deadline
Center for Advanced Studies	
Mellon Junior Scholars Program	January 15
Center for Field Research (Earthwatch)	
Latin America Field Research Grants	No Deadline
Damon Ruyon Walter Winchell Cancer Fund	
Fellowship Grants	December 15
Human Cancer-Directed Fellowship Grants	December 15
Edna McConnell Clark Foundation	No Deadline
Engineering Foundation (Pre-proposals)	No Deadline
Exxon Education Foundation - Grants for Curriculum and Teaching and Management of Higher Education Programs	Open
Gas Research Foundation	
Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
German Marshall Fund	
Short-Term Travel Awards	No Deadline
Research Fellowships	November 30
J. Paul Getty Trust	
Postdoctoral Fellowships in the History of Art and the Humanities	January 10
International Foundation of Employee Benefit Plans	
Postdoctoral Grants-in-Aid	Open
International Research and Exchanges Board	
Research Exchanges with the USSR for 1986/87	
ACLS: Short-Term Research	January 31
East European Research Exchanges for 1986/87	
Short-term Research in Eastern Europe	January 31
USSR Exchange of Language Teachers for Summer 1986	January 15
Slavonic Studies Seminar for Summer 1986	December 1
Specialized Language Training	March 15
Fellowships for Comparative Studies Including the USSR and Eastern Europe	March 15
Grants for Collaborative Activities and New Exchanges	January 31
Travel Grants for Senior Scholars	January 31
Kellogg Foundation	
National Fellowship Program: Group VII (Internal University deadline - December 18)	December 31
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being through Productive Agriculture	Continuous
Fostering Leadership Capacity	Continuous

Leukemia Society of America	
Presidents Research Development Award	January 1
Short Term Scientific Exchange Award	January 1
MacArthur Foundation	
International Security Program	Open
March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
Small Grant	No Deadline
Independent Scholar's Program	December 31
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Association	
Grants-in-Aid	
Clinical Research Grant Program	
Postdoctoral Fellowship Program	
Request for Application	November 30
Final Application	December 31
National Geographic Society	
Grants-in-Aid	No Deadline
National Pork Producers Council	December 15
North Atlantic Society Organization (NATO)	November 30
Research Corporation	
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline
Rockefeller Foundation	
Research on the Genetic Engineering of Rice	Open
Fellowships in the Humanities	
Individual Fellowships	January 31
Institutional Applications	January 31
Alfred P. Sloan Foundation	No Deadline
Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial Instrumentation - Pre-proposals	No Deadline
Thrasher Research Fund	
Grants in Nutrition, Infectious Diseases, Health Promotion	No Deadline
Tinker Foundation	
Tinker Postdoctoral Fellowship Program	December 15
University Genetics Company (UGEN)	No Deadline
Veterans of Foreign Wars of the United States	
Ladies Auxiliary - Cancer Fellowships Grants	February 15
Villers Foundation	No Deadline
Whitehill Foundation, Inc.	
Research Grants and Grants-in-Aid	December 1

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

Office of Research and Technology  
Transfer Administration  
Administrative Services Center, 5th Floor  
1919 University Avenue  
University of Minnesota  
St. Paul, Minnesota 55104

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# ORADDC Newsletter

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DECEMBER 1985

VOLUME XV/NO. 6

## NEW INDIRECT COST AGREEMENT RATES

The University has recently negotiated an indirect cost agreement for FY 1986 with our cognizant agency, the Department of Health and Human Services. The date of the agreement is October 23, 1985 and is effective July 1, 1985. Increased maintenance and operations costs are primarily responsible for the increase in the on-campus research rate.

	On-Campus	Off-Campus
Campus Rates		
Research	42.0	23.0
Instruction (Training)	82.6	57.2
Other Sponsored Agreements	27.9	16.4
Hormel Institute	60.0	N/A
S.A.F.H.L.	76.0	N/A

Provisional rates have also been negotiated for FY 1987. The following rates will be effective July 1, 1986 and will be used until such time as final rates are negotiated. Final rates may be either higher or lower than the provisional. The provisional rates should be used when preparing proposal budgets for periods after June 30, 1986.

	On-Campus	Off-Campus
Campus Rates		
Research	43.0	23.5
Instruction (Training)	82.6	57.2
Other Sponsored Agreements	27.9	16.4
Hormel Institute	60.0	N/A
S.A.F.H.L.	76.0	N/A

Questions as to which rate is applicable to a particular grant or contract should be referred to the appropriate administrator in the Office of Research and Technology Transfer Administration.

## APPLICATION OF INDIRECT COST RATES

Applicable indirect cost rates are to be applied to total direct costs (including fringe benefits) less capital equipment, stipends and tuition, patient care and subcontracts. A subcontract is defined as an agreement with an outside party to do work that is scientific or technical in nature where the work is substantive to the objective of the project. Examples of agreements that would not be considered subcontracts are: maintenance agreements, consulting agreements, and editorial or typing service agreements.

## OFF-CAMPUS VS. ON-CAMPUS RATES

ORTTA has frequently received questions regarding whether an off-campus rate can be applied to a particular research project. For indirect cost purposes, off-campus locations are defined as sites neither owned nor maintained by the University. When staff members work at an off-campus location for a period of 90 consecutive days or longer, off-campus rates are applied to the entire period of off-campus work. If a project is performed both on and off campus, the applicable rate is determined by the predominant proportion of direct salaries and wages of the on and off campus personnel. If 50% or more of the direct salaries and wages are paid to the on-campus personnel, the on-campus rate will be applied to the entire project. If less than 50% of the direct salaries and wages are paid to on-campus personnel, the off-campus rate will be applied to the entire project.

## NIH, DIVISION OF RESEARCH RESOURCES ISSUES CHANGE IN AWARD NOTIFICATION PROCESS

In the past, the Division of Research Resources (DRR) has mailed copies of award notices directly to many different staff members of grantee institutions. This activity takes special handling of each individual award notice and consumes considerable DRR staff time and effort. Unfortunately, they are no longer able to distribute as many copies of award notices. In the future, award notices will routinely be mailed to the principal investigator, the institution's business official and the official signing for the applicant organization. If you need a copy of an award statement, you should contact one of the individuals listed.

## NIH ISSUES FOLDER ENTITLED THE NIH PROGRAMS OF SPECIAL INTEREST TO MINORITIES AND WOMEN

The Office of Grant Inquires, Division of Research Grants, NIH has developed the above referenced folder to provide information pertaining to programs at the NIH that would be of interest to minorities and women. A copy of this folder may be obtained from ORTTA by calling 376-7353.

## REMINDER FOR BUDGETING PATIENT CARE COSTS ON DHHS PROJECTS

As a reminder to investigators anticipating patient care costs in their projects, we are publishing the steps to follow to assure proper budgeting in proposals. Investigators who want to review the complete policy for patient care costs should reference *NIH Guide for Grants and Contracts*, Volume 8, No. 9, July 6, 1979, and *Grants Administration Manual*, Chapter PHS: 6-50. Copies may be obtained from ORTTA, 373-5925, if necessary.

The correct amount to be budgeted must be determined for both routine and ancillary services performed at University Hospitals. Since the chargeable amount to federal projects is subject to a DHHS negotiation agreement, the rate schedule is outlined below for your use in preparing proposal budgets. This schedule reflects the latest negotiated rates which are for the period ending June 30, 1984 and should be used as provisional rates for future periods, subject to adjustment. The rates for the period ending June 30, 1985 are not yet finalized, however, rate revisions will be published in the ORTTA Newsletter as they become available.

Routine Service

1. Obtain the current amount from the schedule below.
2. Inflate this amount by 10% for each year after 1984.

Routine Services: \$281.51 per day

Special Care Units:	Station 22	\$ 438.07
	Station 40	\$1,064.22
	Station 41	\$ 732.03
	Station 33	\$ 820.68
	Station 44	\$1,015.63
	Station 45	\$ 625.66
	Station 53	\$ 685.48
	CCU	\$ 725.57
	Oncology ICU	\$ 786.88

Ancillary Services & Outpatient Services

1. Obtain the correct fee for each service from University Hospitals.
2. If budgeting for a future year, inflate this amount by 10% for each budget period.
3. Adjust this amount according to the percentage listed in the following schedules.

Ancillary Services

Percentage of Standard Fee  
Scheduled Charges

Operating Room	.774042
Delivery	.979844
Anesthesiology	1.060824
Radiology	.847178
Laboratory	.710493
Blood Bank	1.121394
Respiratory Therapy	.692540
Rehabilitation	1.718131
Central Supply	.316274
Pharmacy	.774776
Renal Dialysis	.671964
Others	.593708
Emergency Room	1.027258
Clinic	1.950211

## U.S. DEPARTMENT OF EDUCATION ANNOUNCES CHANGE TO APPLICATION PROCEDURES FOR CONTINUATION AWARDS FOR PROGRAMS

In the Federal Register dated October 15, 1985, the Department of Education gives notice that it is changing the application procedure for continuation awards for a certain number of its programs. Whereas in the past each program announcement for non-competing continuations has been carried separately in the Federal Register some time before those applications were due, in the future only one such notice each year will be put in the Register. The October 15 issue, for example, gives the deadline for non-competing continuing applications for the National Diffusion Network Program, Follow-through Program, Institutional Aid Programs, some of the Handicapped Research and Rehabilitation Programs, and some Bilingual Programs. Since this is a change in procedure, all principal investigators who have grants with an expectation of a non-competing continuation should be sure that they contact their program officers and/or appropriate grant administrator in ORTTA well in advance of the anniversary date of the project to determine the renewal application date.

## NEW PATENT LAW AFFECTS BIOTECHNOLOGY

Biotechnology is a fast changing field, not only in the laboratory but in the law courts. Three very interesting developments have arisen lately. The final answers are not in yet, but how these cases are decided can affect the kind of patent protection the Office of Patents and Licensing can obtain for University biotechnology inventions:

1. *In re Lundak*: In an opinion of the Court of Appeals for the Federal Circuit, it was stated that it is not necessary to deposit a cell line, such as a hybridoma, in an approved culture depository before filing a patent application. After appeal, the case goes back to the Patent Examiner and eventually the patent will issue. The entire opinion is not available yet and neither is the patent. The holding could be narrowly confined to the facts of the case: the cells were available from the inventor, they were deposited one week after the patent application was filed, and until the patent issued, one cannot know whether these cells were crucial to the claims of the patent. It is a development to watch. Deposit of cell lines is fairly expensive and can be time consuming for the researcher.
2. Molecular Genetics, Inc. of Minnetonka has won an appeal to the Patent Board. MGI will be the first inventor to claim a plant (outside the very narrow claims available now). The plant in question is biotransformed, high tryptophan corn. Again, we won't know the whole story until the patent issues.
3. Getting a patent is only a start. It can be challenged and lost in court at any time. That is what has happened to Hybritech's "sandwich assay" (U.S. Patent #4,376,110 entitled Immunometric Assays Using Monoclonal Antibodies, which issued March 8, 1983). This was the first court decision on the new biotechnology patents which have been issuing since the Chakrabarty case in 1980. The case will probably be appealed from the U.S. District Court to the Court of Appeals for the Federal Circuit, which hears all patent cases.

## AMERICAN CANCER SOCIETY INSTITUTIONAL RESEARCH GRANT (1986-87)

The University of Minnesota has been awarded a renewal of its Institutional Research grant from the American Cancer Society (ACS) for 1986-1987. This fund is intended to serve as "seed" money permitting the initiation of promising new

projects or novel ideas, especially by junior investigators, in cancer-related research. Encouragement of cancer research may also be facilitated by support of seminars on cancer-related topics, and by graduate student research. The fund is administered by a Dean's Committee of the Medical School with representation from other biologically-oriented colleges. The Committee is now accepting applications for individual grants not to exceed \$7,500 from this fund with a *deadline date of February 15, 1986*. Instructions and application forms may be obtained from the Dean's Committee for the ACS Institutional Research Grant, Room 421 Masonic Cancer Center, 373-4318. Deadline: February 15, 1986.

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, *agency* deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORTTA CONTACT NUMBERS FOR DEADLINE/PROGRAM INFORMATION ARE 376-7358 OR 376-7689.

## FEDERAL

### NATIONAL INSTITUTES OF HEALTH

#### NIH

NIH	Fogarty International Center, Eastern European Scientist Exchange Program, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
NIH	Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
NIH	Biomedical Research Support Grants	January	2
NIH	National Research Service Awards for Senior Fellows	January	10
NIH	National Research Service Awards for Individual Postdoctoral Fellows	January	10
NIH	National Research Service Award Institutional Grants	January	10
NIH	Institutional Training Programs	January	10
NIH	Research Grants, New	February	1
NIH	New Investigator Awards	February	1
NIH	Research Career Development Awards	February	1
NIH	Individual Postdoctoral Fellowships	February	1
NIH	Support of Scientific Meetings	February	1
NIH	Research Grants, Renewals	March	1

#### NCI

NCI	Development and Assessment of Retroviral Vaccine (NCI/NIAID)	December	13
NCI	Human Exogenous and Endogenous Retroviruses	December	13



NCI	CM-67868-72, Screening of Compounds for Radio - sensitizing Activity	January	13
NCI	CN-55513-38, Community Clinical Trial for Heavy Smokers	January	15
NCI	Cancer Education Program	February	1
NCI	Comprehensive Minority Biomedical Program - Minority Satellite Supplement	February	1
NCI	Comprehensive Minority Biomedical Program - Minority Investigator Supplement	February	1
NCI	Multinuclear Magnetic Resonance Imaging and Spectroscopy	February	1
NCI	Studies of Dose Fractionation and Volume Late Effects in Normal Tissues Using Animal Models	February	1
NCI	Feline Retroviruses	February	1
NCI	Small Grants Program for Epidemiology	February	1
NCI	CN-65006-03, Primary Prevention (Smoking) of Cancer in Black Populations	February	17
NCI	Outstanding Investigators Grant	May	15
<b>NEI</b>			
NEI	Small Grants Program for Pilot Projects	February	1
NEI	NHLBI/NIAID/NIAMDD/NICHHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	February	1
<b>NHLBI</b>			
NHLBI	85-HL-27-H, Molecular Characterization of Ion Channels in the Myocardial Sarcolemma (letter of intent - 8/15/85)	December	16
NHLBI	85-HL-28-L, Alpha-1-Protenase Inhibitor Deficiency and Emphysema-Molecular Studies	December	16
NHLBI	Research Career Development Award: Basic Science Related to the Respiratory System	February	1
NHLBI	Demonstration and Education Research in Cystic Fibrosis	February	1
NHLBI	Research Training and Development Area: National Research Service Award Programs		
	Institutional Research Training Grant Award	January	10
	Individual Postdoctoral Fellowship Award	January	10
	Senior Research Fellowship Award	January	10
	Research Career Development Programs		
	Research Career Development Award	February	1
	Clinical Investigator Award	February	1
	Physician Scientist Award	February	1
	Special Emphasis Research Career Award: Diabetes Mellitus	February	1
NHLBI	Hemostatic Defects on Renal Failure: Pathogenesis and Treatment	February	15
NHLBI	Membrane Transport, Permeability, and Volume Control in Sickle Cell Disease	February	15
NHLBI	Fundamental Studies of Cardiac		
NHLBI	Physical Activity and Fitness Assessment Methods	February	18
NHLBI	Morphogenesis (Letter of intent - December 31, 1985)	March	15
NHLBI	Biological Mechanisms of Nutrient Effects of Blood Pressure	April	1

NHLBI	Development and Differentiation of Airway Epithelium (Letter of intent - February 15)	April	1
NHLBI	Preventive Cardiology Academic Award	April	1
<b>NIA</b>			
NIA	Aging and Visual Perception Postdoctoral Fellow	February	1
	Program Project	February	1
NIA	Health Behaviors and Aging: Behavioral Geriatrics Research	February	1
NIA	NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	February	1
NIA	NIAID/NIADDK/NICHHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	February	1
NIA	Complementary Training Awards for Research on Aging	February	1
<b>NIADDKD</b>			
NIADDKD	Small Grants Program for Research on Inherited Metabolic Diseases	January	2
NIADDKD	Kidney and Urological Research Centers (Letter of intent - January 15)	March	15
<b>NIAID</b>			
NIAID	Minority Research Enhancement Program	Open	
NIAID	IAIDP-86-6, A Clinical Trial for the Use of Monoclonal Antibodies in Bone Marrow	December	13
NIAID	MIDP-86-12, Clinical Trials on Efficacy of Anti-virals for The Treatment of Severe Herpesvirus Infections	January	13
NIAID	Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
	Career Development	February	1
	Physician Scientist	February	1
	Clinical Investigator	February	1
	Postdoctoral Fellow	February	1
<b>NICHHD</b>			
NICHHD	Trophectoderm/Blastula Development	February	18
<b>NIDR</b>			
NIDR	Small Grant Program	February	1
<b>NIEHS</b>			
NIEHS	Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	February	1
NIEHS	Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	February	1
NIEHS	Specialized Centers of Research in Genetic Toxicology	February	1
NIEHS	Non-Mammalian Species in Toxicological Testing	February	15

## NIGMS

NIGMS	Cellular and Molecular Basis of Disease Research	February	1
NIGMS	Physiology and Biomedical Engineering	February	1
NIGMS	Genetic Research	February	1
NIGMS	Pharmacological Sciences	February	1

## NINCDS

NINCDS	86-02, Kinesiological Modeling of the Cat Hindlimb Musculature During Locomotion	January	17
NINCDS	Clinical Evaluation of Copolymer I for Exacerbating-Remitting Multiple Sclerosis	January	21
NINCDS	Clinical Investigator Development Award	February	1
NINCDS	Multidisciplinary Research Centers for the Study of Neuro-Genetic Disorders of Infancy and Childhood (P50)	February	1
NINCDS	86-01, Closed Loop Control of Functional Neuro-muscular Stimulation	February	10

## NIOSH

NIOSH	Research and Demonstrations Relating to Occupational Safety and Health:		
	Special Emphasis Research Career Award	February	1
	Small Grant Program	February	1
	Research Grants	February	1
	Demonstration Grants	February	1
	Program Project Grants	February	1

## NLM

NLM	Investigator-Initiated Research Grants/New Investigator Research Awards	February	1
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## DIVISION OF RESEARCH RESOURCES

DRR	Small Grants Program for Pilot Projects - Biomedical Research Technology Program	February	1
DRR	Biomedical Research Support Shared Instrumentation Grants	February	15

## ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH

ADAMHA, Small Grants Program	Open		
ADAMHA, Research Grants, New	February		1
ADAMHA/NIH/NCHSR, Research on Digestive Diseases:			
Research Grants	February		1
Research Career Development	February		1
ADAMHA, Individual Postdoctoral Fellowships	February		1
ADAMHA, Institutional Training Grants, NRSA	February		1
ADAMHA, Research Scientist Development Award	February		1
ADAMHA, Research Scientist Award	February		1
NIAAA, Research on Children of Alcoholics	February		1
NIAAA, Alcohol Resource Center Grants	February		1
NIAAA, Alcohol Research Grants	February		1
NIAAA, New Investigator Research Awards	February		1

NIAAA, Research Grants on Alcohol-Related Performance		
Effects and Traumatic Injury	February	1
NIAAA/NIDA/NIMH, Institutional NRSA Training	February	1
NIDA/NIAAA, Community Prevention Research in Alcohol and		
Drug Abuse	February	1
NIDA, Drug Abuse Prevention Research	February	1
NIMH, Research Support Programs	February	1
Small Grant Program (with NIAAA and NIDA)	Open	
Grants for Mental Health Service System Research	February	1
Geriatric Mental Health Academic Awards	February	1
Preventive Intervention Research Centers (PIRC)	February	1
Rape Center	February	1
Prevention Research Branch	February	1
New Investigator Research Award (NIRA) in Prevention		
(with NIAAA and NIDA)	February	1
Clinical Research Centers on Psychopathology of the Elderly	February	1
Clinical Investigator Award	February	1
Physician Scientist Award	February	1
Autism and Related Behavioral Disorders (with NINCDS)	February	1
Studies on Obesity (with NIH Institutes and NIDA)	February	1
Support for Child and Adolescent Mental Health Research and		
Research Training	February	1
Research on Mental Illness in Nursing Homes	February	1
AA-85-02, Research Grants on the Prevention of Alcohol,		
Drug Abuse, and Mental Health (ADM) Disorders at the		
Worksite (with NIAAA and NIDA)	February	1
Service System and Economic Research Programs	February	1
MH-86-03, Assessment of Mental Health Problems in Disaster		
Victims	February	1
MH-86-05, Prevention Research on Mutual Support Approaches		
with Bereaved Populations	February	1
MH-86-07, Research on Family Stress and the Care of		
Alzheimer's Disease Victims	February	1
MH-84-01, Research Support Programs: Neurosciences,		
Behavioral Sciences, Epidemiologic, Clinical Assessment		
and Etiological, Treatment, Prevention and Service Research		
New Regular Research Grants	February	1
Support for Child and Adolescent Mental Health Research		
and Research Training: Research Grants	February	1
Research Grants Program	February	1
Antidepressant Drugs in the Treatment of Anxiety Disorders	February	1
Clinical Research Centers on Psychopathology of the Elderly	February	1
MH-86-06, Research on Method for Studying Mental Health		
Service Systems	February	1
Research Reimbursement Issues in Mental Health Services		
Delivery	March	1

#### OFFICE OF POPULATION AFFAIRS

Opportunities for Research on Adolescent Family Life	February	1
Opportunities for Research in Family Planning Service Delivery		
Improvement	February	1

## OFFICE OF HUMAN DEVELOPMENT SERVICES

National Resource Centers for Child Welfare Services January 21

## DEPARTMENT OF EDUCATION

Research in Education of Handicapped  
Extant Data Base Projects December 13  
Increasing Teaching/Learning Efficacy January 13  
Student-Initiated Research Projects March 14  
Inservice Training - Handicapped Early Education January 20  
National Institute for Handicapped Research  
Innovative Grants until July 1  
Handicapped Field Initiated Research February 3  
Office of Postsecondary Education  
International Research and Studies Program  
(Non-competing continuation) February 21  
Upward Bound Program December 16  
Public Service Education Fellowships December 20  
Cooperative Education Program  
New Awards January 10  
Non-competing continuation February 10  
1986 Seminars Abroad Program January 10  
OSERS -  
Handicapped Childrens' Early Education Program January 20  
Severely Handicapped Childrens' Innovative Programs March 21  
Postsecondary Education Projects for Handicapped Persons:  
Postsecondary Demonstration Projects December 16

## HEALTH RESOURCES AND SERVICES ADMINISTRATION

Competing Cooperative Agreements for Area Health Education  
Center Programs December 14  
National Research Service Awards - Institutional Grants February 1

## NATIONAL CENTER FOR HEALTH SERVICES RESEARCH

Conference Grants (Preliminary submission required  
prior to formal application) Open

## NATIONAL SCIENCE FOUNDATION

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

*Program Deadlines for NSF Proposals:* Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Program Open

Teacher Enhancement and Informal Science Education Presidential Awards for Excellence in Science and Mathematics Teaching	Open
U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for short-term visits only to plan scientific research or carry out short, self-contained research activities. Division of International Programs (375-7554).	December 15
University/Industry/Government Partnership for Quality Engineering Personnel. (Brochure NSF 85-46). Dr. William Butcher, Directorate for Engineering (357-9834).	December 16
U.S.-Korea Cooperative Science. (Brochure NSF 83-50). Proposals for long-term visits and cooperative research. Dr. Gerald Edwards, Division of International Programs (357-9537).	January 1
Terrestrial and Freshwater Biological Field Stations Special Competition. (Brochure NSF 85-47). Dr. James Edwards, Division of Biotic Systems and Resources (357-7475).	January 2
Marine Biological Laboratories Special Competition. (Brochure NSF 85-48). Dr. James Edwards, Division of Biotic Systems and Resources (375-7475).	January 2
Postdoctoral Research Fellowships in Plant Biology. Dr. H. T. Huang, Division of Molecular Biosciences (357-9782).	January 10
Research at the Interface of Chemistry and Biology. Dr. Mary Clutter, Division of Cellular Biosciences (357-7905); Dr. James Brown, Division of Molecular Biosciences (357-9400); Dr. Richard Louttit, Division of Behavioral and Neural Sciences (357-7564); or Dr. C. William Kern, Division of Chemistry (357-7947).	January 15
U.S.-Japan Program of Cooperation in Photoconversion and Photosynthesis. (Brochure NSF 83-11). Proposals for long - and short-term visits for research; project development 2-week visit letter- proposals are accepted throughout the year. Division of International Programs (357-9558).	January 15
Earthquake Engineering Research Center. Dr. Michael Gaus, Division of Fundamental Research in Emerging and Critical Engineering Systems (357-9500).	January 15
Analysis of Science Resources. Dr. Donald Buzzelli, Science Resources Studies (634-4682).	January 15
Special Research Initiation Awards for New Investigators in Information Science and Technology. (Brochures NSF 81-34 and 81-69). Dr. Charles Brownstein, Division of Information Science and Technology (357-9700).	March 1
U.S.-Federal Republic of Germany Cooperative Science. (Brochure NSF 83-73). Semi-annual deadline for proposals for joint research and seminars. Division of International Programs (357-9700).	March 1
Cooperative Science Activities with Denmark, Iceland, the Netherlands, and Norway. (Brochure NSF 83-73). Division of International Programs (357-9700).	March 1
U.S.-Finland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	March 1
U.S.-Sweden Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	March 1
U.S.-Switzerland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-9700).	March 1

U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for cooperative research projects commencing in 1987; joint seminars, exchange of scientists, and short-term visits. Division of International Programs (357-7554).	March	31
U.S.-United Kingdom Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	April	1
U.S.-Australia Cooperative Science. All proposals for projects beginning any time in 1987. Division of International Programs (357-9558).	April	1
U.S.-France Cooperative Science. (Brochure NSF 83-73). Proposals for cooperative research projects and joint work - shops/seminars with requested effective dates in calendar year 1987. Division of International Programs (357-7554).	May	1
U.S.-Argentina Cooperative Science. (Brochure NSF 80-52). Mr. Dimas Chavez, Division of International Programs (357-9563).	May	1
U.S.-Brazil Cooperative Science. (Brochure NSF 80-52). Mr. Dimas Chavez, Division of International Programs (357-9563).	May	1
U.S.-Mexico Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
U.S.-Venezuela Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
U.S.-Latin America and Caribbean Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
Computer Research Equipment. (Brochure NSF 84-87). Limited to research equipment to support multiple research projects in computer science or computer engineering at graduate institutions. Dr. John Lehmann, Division of Computer Research (357-7349).	May	1
Programs in Preparing Middle School Science and Mathematics Teachers (202) 375-7069.	May	2

*Target Dates for NSF Proposals:* Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Ecology. Contact Dr. Patrick Flanagan, Division of Biotic Systems and Resources (202) 357-9734	December	15
Engineering Research Equipment Grants. (Brochure NSF 84-51). Technical inquiries concerning programs should be made to the appropriate Engineering Division: Chemical, Biochemical and Thermal Engineering (357-9606); Mechanics, Structure and Materials Engineering (357-9542); Electrical, Communications, and Systems Engineering (357-9618); Design, Manufacturing, and Computer Engineering (357-7508); Fundamental Research in Emerging and Critical Systems (357-9545). Administrative inquires may be directed to Ms. Janice Apruzese, Office of the Deputy Assistant Director for Engineering (357-9834).	December	15
Local and Regional Teacher Development. (Brochure NSF 85-9). Dr. Charles Puglia, Division of Teacher Enhancement and Informal Science Education (357-7539).	December	15
Leadership Activities for Precollege Teachers. (Brochure NSF 85-9). Dr. Larry Hatfield, Division of Teacher Enhancement and Informal Science Education (357-9734).	December	15
Grants for Engineering Research Equipment	December	16

Ecology. (Brochure NSF 84-68). Dr. Patrick Flanagan, Division of Biotic Systems and Resources (357-9734).	December	16
Population Biology and Physiological Ecology. (Brochure NSF 84-68). Dr. James Collins, Division of Biotic Systems and Resources (357-9728).	December	16
Ecosystem Studies. (Brochure NSF 84-68). Dr. James Gosz, Division of Biotic Systems and Resources (357-9596).	December	16
Systematic Anthropological Collections. (Brochure NSF 83-82). Ms. Mary Greene, Division of Social and Economic Science (357-7804).	January	1
Ocean Drilling Program, U.S. Science. Dr. Garrett Brass, Division of Ocean Sciences (357-9849).	January	1
Sub-Saharan Africa Cooperative Science. (Brochure NSF 84-26). Dr. Osman Shinaishin, Division of International Programs (357-9550).	January	1
Anthropology. (Brochure NSF 84-72). Dr. John Yellen or Dr. Stuart Plattner, Division of Behavioral and Neural Sciences (357-7804).	January	1
Social and Developmental Psychology. (Brochure NSF 84-72). Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (357-9485).	January	1
Economics. Dr. James Blackman, Dr. Daniel Newlon or Dr. Lynn Pollnow, Division of Social and Economics Science (357-9674).	January	1
Geography and Regional Science. Dr. Ronald Abler, Division of Social and Economic Science (357-7326).	January	1
History and Philosophy of Science. Dr. Ronald Overman or Ms. Dorothy Greene, Division of Social and Economic Science (357-9677).	January	1
Law and Social Sciences. Dr. Felice Levine or Ms. Bonney Sheahan, Division of Social and Economic Science (357-9567).	January	1
Decision and Management Science. Dr. Robert Thrall (357-7569) or Dr. Vincent Covello (357-7417), Division of Social and Economic Science.	January	1
Measurement Methods and Data Improvement. Dr. Murray Aborn or Dr. Sara Nerlove, Division of Social and Economic Science (357-7913).	January	1
Political Science. Dr. Frank Scioli, Jr. or Dr. Lee Sigelman, Division of Social and Economic Science (357-9406).	January	1
Sociology. Dr. Mark Abrahamson or Dr. Stanley Presser, Division of Social and Economic Science (357-7802).	January	1
Systematic Biology. (Brochure NSF 84-68). Dr. James Rodman, Division of Biotic Systems and Resources (357-9588).	January	15
Integrative Neural Systems. (Brochure NSF 84-72). Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (357-7040).	January	15
Molecular and Cellular Neurobiology. (Brochure NSF 84-17). Dr. Stephen Morris, Division of Behavioral and Neural Sciences (357-7471).	January	15
Developmental Neuroscience. (Brochure NSF 84-72). Dr. Carol Welt, Division of Behavioral and Neural Sciences (375-7428).	January	15
Sensory Physiology and Perception. (Brochure NSF 84-72). Dr. Kathie Olsen, Division of Behavioral and Neural Sciences (357-7949).	January	15
Cell Biology. (Brochure NSF 85-11). Dr. Arnold Kaplan or Dr. Gertrude Kasebekar, Division of Cellular Biosciences (357-7474).	February	1



Cellular Physiology. (Brochure NSF 85-11). Dr. Maryanne Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (357-7377).	February	1
Developmental Biology. (Brochure NSF 85-11). Dr. Joseph Mascarenhas, Division of Cellular Biosciences (357-7989).	February	1
Eukaryotic Genetics. (Brochure NSF 85-11). Dr. DeLill Nasser, Division of Cellular Biosciences (375-0112).	February	1
Regulatory Biology. (Brochure NSF 85-11). Dr. Lewis Greenwald or Dr. Elvira Doman, Division of Cellular Biosciences (357-7975).	February	1
Biological Oceanography, Chemical Oceanography, Marine Geology and Geophysics, Physical Oceanography. Dr. Robert Wall, Division of Ocean Sciences (357-7924).	February	1
Ocean Sciences Instrumentation Development. (Brochure NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	February	1
Linguistics. (Brochure NSF 84-72). Dr. Paul Chapin, Division of Behavioral and Neural Sciences (357-7696).	February	1
Memory and Cognitive Processes. (Brochure NSF 84-72). Dr. Joseph Young, Division of Behavioral and Neural Sciences (357-9898).	February	1
U.S.-Yugoslavia Cooperative Research. Cooperative research projects. Proposals should not be submitted to NSF (information copies are appreciated) but to FAISECTC in Yugoslavia. Dr. Gerson Sher, Division of International Programs (357-7494).	April	1
U.S.-Eastern European Cooperative Science. (Brochure NSF 81-27). Bulgaria, Hungary, and Romania cooperative research projects, bilateral seminars. Dr. Gerson Sher or Ms. Bonnie Thompson, Division of International Programs (357-7494).	May	1
Doctoral Dissertation Research in Biotic Systems and Resources. (Brochure NSF 83-71). Dr. James Edwards, Division of Biotic Systems and Resources (357-7475).	May	1
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	May	1

## DEPARTMENT OF COMMERCE

National Bureau of Standards; Center for Manufacturing Engineering, Automated Manufacturing Research Facility (AMRF) Research Grants Program	Open	
Precision Measurement Grants	February	1

## DEPARTMENT OF DEFENSE

Office of Naval Research	Open	
Strategic Defense Initiative	December	18
Young Investigator Program	January	31
Graduate Fellowship Program 1986		
Strategic Defense Initiative Innovative Science and Technology Office	Open	
U.S. Air Force	Open	
University Resident Research Program	February	1
Summer Faculty Research Program		

## DEPARTMENT OF ENERGY

Office of Energy Research University Research Instrumentation Program 1986 Special Research Grants Programs	December Open	6
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## DEPARTMENT OF JUSTICE

Office of Juvenile Justice and Delinquency Prevention Research and Program Development Programs	Open	
Research on the Impact of Deinstitutionalization of Status Offenders	January	10
National Institute of Justice Alternative Police Responses to Spouse Assault	March	4

## ENVIRONMENTAL PROTECTION AGENCY

Environmental Biology	Open	
Environmental Health	Open	
Environmental Engineering	Open	
Environmental Air/Water Chemistry and Physics	Open	
Special Research Grants and Student Fellowship Program	Open	

## NATIONAL ENDOWMENT FOR THE ARTS

U.S./French Exchange Program: Deadline varies with Discipline	Various	
Museum Special Projects	Open	

## NATIONAL ENDOWMENT FOR THE HUMANITIES

Humanities Instruction in Elementary and Secondary Schools	January	7
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## NATIONAL GALLERY OF ART

Center for Advanced Study in the Visual Arts Visiting Senior Fellowships and Associates (For 9/16/86-2/28/87)	March	21
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## NATIONAL RESEARCH COUNCIL

Associateship Programs (JH 608/S-4)	January	15
Ford Foundation Postdoctoral Fellowships for Minorities	January	17

## U.S. DEPARTMENT OF AGRICULTURE

### Competitive Research Grants Program

#### Plant Science

Biological Nitrogen Fixation

February 17

Genetic Mechanisms for Crop Improvement

March 3

#### Biotechnology

Molecular and Cellular Mechanisms for Growth and  
Development (Plant Studies)

January 13

Molecular Biology (Animal)

February 17

Genetic and Molecular Mechanisms Controlling  
Responses to Physical and Biological Stress

February 24

#### Animal Science

Reproductive Physiology

February 10

Brucellosis

February 17

Insect Pest Science

February 24

Alcohol Fuels

February 10

Soybean

Various

## U.S. INFORMATION AGENCY

### Bureau of Educational and Cultural Affairs

University Affiliations Program

February 18

## NONFEDERAL

American Chemical Society - Petroleum Research Fund  
Grants-in-Aid

No Deadline

American College of Chest Physicians  
Research and Training Fellowships

January 1

American Council of Learned Societies  
Grants-in-Aid

December 15

China Conference Travel Grants

January 1

Mellon Chinese Summer Language Grants

February 15

American Heart Association - Minnesota Affiliate  
Grants-in-Aid

December 15

American Institute for Cancer Research

January 1

American Numismatic Society

1986 Grants for Summer Study in Numismatics

March 1

American Philosophical Society  
Grants-in-Aid

Various--Contact OR

Annenberg/Corporation for Public Broadcasting  
Education Through Telecommunications

Full Proposals

January 28

Bosch Foundation Fellowship Program

No Deadline

Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)

No Deadline

Carnegie Corporation

No Deadline

Center for Advanced Studies

Mellon Junior Scholars Program

January 15

Center for Field Research (Earthwatch)

Latin America Field Research Grants

No Deadline

Jane Coffin Childs Memorial Fund for Medical Research

Grants-in-Aid

January 1

Fellowships

January 1

Damon Ruyon Walter Winchell Cancer Fund	
Fellowship Grants	December 15
Human Cancer-Directed Fellowship Grants	December 15
Edna McConnell Clark Foundation	No Deadline
Engineering Foundation (Pre-proposals)	No Deadline
Exxon Education Foundation - Grants for Curriculum and Teaching and Management of Higher Education Programs	Open
Gas Research Foundation	
Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
German Marshall Fund	
Short-Term Travel Awards	No Deadline
J. Paul Getty Trust	
Postdoctoral Fellowships in the History of Art and the Humanities	January 10
International Foundation of Employee Benefit Plans	
Postdoctoral Grants-in-Aid	Open
International Research and Exchanges Board	
Research Exchanges with the USSR for 1986/87	
ACLS: Short-Term Research	January 31
East European Research Exchanges for 1986/87	
Short-term Research in Eastern Europe	January 31
USSR Exchange of Language Teachers for Summer 1986	January 15
Specialized Language Training	March 15
Fellowships for Comparative Studies Including the USSR and Eastern Europe	March 15
Grants for Collaborative Activities and New Exchanges	January 31
Travel Grants for Senior Scholars	January 31
Robert Wood Johnson Foundation	
Faculty Fellowships in Health Care Finance	January 10
Kellogg Foundation	
National Fellowship Program: Group VII	December 31
(Internal University deadline - December 18)	
Expanding Opportunities for Adult Continuing Education	Continuous
Health Promotion and Disease Prevention Programs	Continuous
Coordinated, Cost-Effective Health Service Programs	Continuous
Improving Human Well Being Through Productive Agriculture	Continuous
Fostering Leadership Capacity	
Leukemia Society of America	
Presidents Research Development Award	January 1
Short-Term Scientific Exchange Award	January 1
MacArthur Foundation	
International Security Program	Open
March of Dimes Birth Defects Foundation	
Basil O'Connor Starter Research Grants	Continuous
Professional Education and Community Services Grants	January 1
Medical Services Grants	January 1
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission	
Small Grant	No Deadline
Independent Scholar's Program	December 31
Charles Stewart Mott Foundation (Letter of inquiry)	No Deadline
Muscular Dystrophy Association	
Grants-in-Aid	
Clinical Research Grant Program	
Postdoctoral Fellowship Program	
Request for Application	November 30

Final Application	December 31
National Geographic Society	
Grants-in-Aid	No Deadline
National Pork Producers Council	December 15
North Atlantic Society Organization (NATO)	November 30
Research Corporation	
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline
Rockefeller Foundation	
Research on the Genetic Engineering of Rice	Open
Fellowships in the Humanities	
Individual Fellowships	January 31
Institutional Applications	January 31
Alfred P. Sloan Foundation	No Deadline
Spinal Cord Research Foundation	January 1
Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial Instrumentation - Pre-proposals	No Deadline
Thrasher Research Fund	
Grants in Nutrition, Infectious Diseases, Health Promotion	No Deadline
Tinker Foundation	
Tinker Postdoctoral Fellowship Program	December 15
University Genetics Company (UGEN)	No Deadline
Veterans of Foreign Wars of the United States	
Ladies Auxiliary - Cancer Fellowships Grants	February 15
Villers Foundation	No Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

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# ORARDC Newsletter

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## Services of the Office of Patents and Licensing

The Office of Patents and Licensing is the division of ORTTA responsible for the evaluation and commercial transfer of University-developed technologies and for the negotiation and administration of all University research contracts with industry. This office solicits disclosures of technological discoveries and developments from University faculty, staff, and students. Disclosures of all types of technologies and developments are sought, including devices, methods, chemical compounds, software, plants, organisms, and other items that may have commercial value. The first disclosure may be simply a brief note or phone call to this office. A copy of a prepared manuscript is often a very good disclosure. The Office of Patents and Licensing will also assist with problems concerning industrial contracts and other relationships with industry.

The Office of Patents and Licensing is a service available to all within the University. Phone calls and written notes are welcome. Matters concerning industrial research contracts may be addressed to Judy Volinkaty (373-2631). Other matters may be addressed to John Thuente, Kay Terry or Tony Strauss (373-2092).

## Cooperation With Medical Industrial Capital, Inc.

The University has entered a working relationship with Medical Industrial Capital, Inc. (MICI), a Minneapolis-based venture company specializing in medical technology and health care. MICI will have nonexclusive access to disclosures of discoveries and inventions that are submitted to the Office of Patents and Licensing.

MICI works as a general partner in forming and developing innovative medical technology and health care companies, assisting with business plan preparation, management recruiting, marketing and product strategy, and regulatory affairs.

This relationship reflects a creative approach to further the beneficial commercial use of ideas developed at the University and at the same time to enable the University and faculty inventors to share in the fruits of commercialization of the ideas.

Each collaborative venture will be carefully structured to be consistent with the University's primary mission of education and research. The University and MICI are planning a series of seminars to explain the program. The first, "The Possibilities for Commercialization of Basic Research" is planned for early February. Speakers will include faculty members who have been successful as entrepreneurs. Exact date, time and location will be published later.

Any faculty who want further information or who have ideas they would like to discuss with this company are encouraged to contact the Office of Patents and Licensing.

### **Public Health Service - Policy on Humane Care and Use of Laboratory Animals By Awardee Institutions**

Effective January 1, 1986, the Public Health Service (PHS) will implement new guidelines for the care and use of laboratory animals. All applications and proposals submitted to PHS and other selected agencies after January 1, 1986 must indicate that the University's Institutional Animal Care and Use Committee (IACUC) has approved those sections of the application or proposal related to the care and use of laboratory animals. While internal procedures have not been finalized, it is highly recommended that investigators applying to the agencies requiring animal use certification, submit their applications, along with any required agency assurance form, to Research Animal Resources (RAR) for review prior to submission to the Office of Research and Technology Transfer Administration (ORTTA). RAR will provide the required assurance.

For those investigators not able to submit their application to RAR in advance, ORTTA will provide a pending review letter for transmittal with the application. A copy of this letter will be forwarded to RAR. It will be the responsibility of the principal investigator to provide RAR with the BA22 form in order that certification to the agency can be sent within 60 days.

These new PHS guidelines were published in the NIH Guide, Vol. 14, No. 8, 6/25/85.

### **Agencies Currently Requiring Animal Use Certification**

The following is a list of agencies requiring animal use certification at the present time:

- Public Health Service - All divisions
- National Science Foundation
- American Cancer Society
- American Heart Association
- American College of Surgeons
- American Diabetes Association
- Cystic Fibrosis Foundation
- Juvenile Diabetes Foundation
- Leukemia Society of America
- March of Dimes Birth Defects Foundation

With the implementation of PHS policy on January 1, 1986, other agencies may also revise their application requirements to include animal use certification. As ORTTA is informed of such changes, we will update this list through our newsletter.

## **New Animal Usage Form, BA Form 22**

In response to new animal care and use requirements implemented by many sponsoring agencies, the Animal Use Form (BA-22) has been revised. The forms are being printed and should be available from the General Storehouse. Since the form has been revised significantly, old forms will not be acceptable after January 1, 1986. Questions regarding this form should be directed to Research Animal Resources at 376-5097.

## **Revised Public Health Service Application Instructions For Projects Involving Laboratory Animals**

Following the new guidelines, effective January 1, 1986, for care and use of laboratory animals, all applications and proposals (PHS Kits 398, 2590, 6025, and 416-1) that involve animals must contain the following information:

- a. identification of the species and approximate number of animals to be used;
- b. rationale for involving animals, and for the appropriateness of the species and numbers to be used;
- c. a complete description of the proposed use of the animals;
- d. assurance that discomfort and injury to animals will be limited to that which is unavoidable in the conduct of scientifically valuable research, and that analgesic, anesthetic, and tranquilizing drugs will be used where indicated and appropriate to minimize discomfort and pain to animals; and
- e. a description of any euthanasia method to be used.

PHS has indicated that there are no plans to revise the application kits to include these instructions at this time. It is imperative that this information be included in the application.

## **New Staff Member Joins ORTTA**

Ms. Leslie Stagg has recently joined the ORTTA, Accounting and Financial Management Division, as a Principal Accountant. She will assist in developing the indirect cost rate and in the review of service centers for rate development and cost charging. Ms. Stagg has been employed by the University since November 1982. For the past two years, she was responsible for fringe benefit rate development in the Budget Office and in Employee Benefits. Ms. Stagg can be contacted at 373-5971.

## **Comparison of Indirect Cost Rates at Thirty Leading Research Institutions**

The following table of indirect cost rates for on-campus research was recently received by ORTTA. It lists the rates for the last five years at the top thirty research institutions. Circumstances unique to each institution make it impossible to compare rates directly, however, it should be noted that the University of Minnesota's indirect cost rate is in the lower quartile of the rates listed.



INDIRECT COST RATES  
Thirty High-Volume Research Universities

Institution	Negotiated Rates				
	1981	1982	1983	1984	1985
John Hopkins	59	50	50	59	64
MIT	48	48	48	58	62
Stanford	58	58	69	69	69
U of Wash. - Seattle	32	33	32	36	40
U of Cal. - Los Angeles	31	31	39	39	43
U of Cal. - San Diego	31	31	32	33	37
Columbia	54	68	70	70	74
Cornell	72	72	49	57.6	60.6
U of Wisconsin - Madison	43	43	43	43	43
Harvard	51.1	54	54.1	56	62.4
Yale	55	58	68	68	68
U of Pennsylvania	65	65	65	65	64
U of Michigan	58	58	58	60	60
U of Cal. - San Francisco	31	31	28	28	31
U of Cal. - Berkeley	31	31	42	42	44
U of Minnesota	36	36	39	39	41
U of Southern California	45	46	53	53	61
U of Chicago	50	57	69	69	69
Penn State	64.3*	36	38	41.2	45
U of Illinois - Urbana	68*	63.9*	42.4	42	42.2
U of Texas - Austin	52*	33	38	41	42
Washington U - St. Louis	55	55	51	51	51
Duke U	50	50	50	50	50
U of Rochester	60	74	73	50	50
New York U	52	47	48	51.8	50
U of Colorado - Boulder	60.5*	39.5	39.9	41.5	41.5
U of N. Carolina - C. Hill	73.3*	39.6	35.5	35	41.6
Georgia Institute Tech	73*	55	47.2	49.4	49.4
U of Pittsburgh	48	52	47	50	46
Ohio State	42	37	37	45	45
High	73.3	74	73	70	74
Low	31	31	28	33	31
Average	51.6	48.4	48.5	49.8	51.6

\*This rate was calculated on a salaries and wages base.

**American Cancer Society Institutional Research Grant Award**

The University of Minnesota has been awarded a renewal of its Institutional Research grant from the American Cancer Society (ACS) for 1986-1987. This fund is intended to serve as "seed" money permitting the initiation of promising new projects or novel ideas, especially by junior investigators, in cancer-related research. Encouragement of cancer research may also be facilitated by support

of seminars on cancer-related topics, and by graduate student research. The fund is administered by a Dean's Committee of the Medical School with representation from other biologically-oriented colleges. The Committee is now accepting applications for individual grants not to exceed \$7,500 from this fund. Instructions and application forms may be obtained from the Dean's Committee for the ACS Institutional Research Grant, Room 421 Masonic Cancer Center, 373-4318. Deadline: February 15, 1986.

#### SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORTTA CONTACT NUMBERS FOR DEADLINE/PROGRAM INFORMATION ARE 376-7358 OR 376-7689.

#### FEDERAL

##### National Institutes of Health

##### NIH

NIH	Fogarty International Center, Eastern European Scientist Exchange Program, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
NIH	Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
NIH	Fogarty International Center Senior International Fellowships	January	10
NIH	National Research Service Awards for Senior Fellows	January	10
NIH	National Research Service Awards for Individual Postdoctoral Fellows	January	10
NIH	National Research Service Award Institutional Grants	January	10
NIH	Institutional Training Programs	January	10
NIH	Research Grants, New	February	1
NIH	New Investigator Awards	February	1
NIH	Research Career Development Awards	February	1
NIH	Individual Postdoctoral Fellowships	February	1
NIH	Support of Scientific Meetings	February	1
NIH	Research Grants, Renewals	March	1

##### NCI

NCI	CN-55513-38, Community Clinical Trial for Heavy Smokers	January	15
NCI	Cancer Education Program	February	1

NCI	Comprehensive Minority Biomedical Program - Minority Satellite Supplement	February	1
NCI	Comprehensive Minority Biomedical Program - Minority Investigator Supplement	February	1
NCI	Multinuclear Magnetic Resonance Imaging and Spectroscopy	February	1
NCI	Studies of Dose Fractionation and Volume Late Effects in Normal Tissues Using Animal Models	February	1
NCI	Studies on Feline Retroviruses	February	1
NCI	Small Grants Program for Epidemiology	February	1
NCI	CN-65006-03, Primary Prevention (Smoking) of Cancer in Black Populations	February	17
NCI	Cancer Control Small Grants	February	21
NCI	Drug Discovery Groups for Treatment of AIDS (NCI/NIAID) (Letter of intent January 15)	March	10
NCI	Quality of Survival for Childhood Cancer Patients	March	15
NCI	Outstanding Investigators Grant	May	15
<b>NEI</b>			
NEI	Small Grants Program for Pilot Projects	February	1
NEI	NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	February	1
NEI	Non-Mamalian Species in Toxicological Testing	February	15
<b>NHLBI</b>			
NHLBI	Research Career Development Award: Basic Science Related to the Respiratory System	February	1
NHLBI	Demonstration and Education Research in Cystic Fibrosis	February	1
NHLBI	Research Training and Development Area: National Research Service Award Programs		
	Institutional Research Training Grant Award	January	10
	Individual Postdoctoral Fellowship Award	January	10
	Senior Research Fellowship Award	January	10
	Research Career Development Programs		
	Research Career Development Award	February	1
	Clinical Investigator Award	February	1
	Physician Scientist Award	February	1
	Special Emphasis Research Career Award: Diabetes Mellitus	February	1
NHLBI	Cardiovascular Studies in Animals	February	1
NHLBI	Blood Cell Surface Antigens Related to Disease	February	1
NHLBI	86-HL-01-B, Hemostatic Defects on Renal Failure: Pathogenesis and Treatment	February	18
NHLBI	Membrane Transport, Permeability, and Volume Control in Sickle Cell Disease	February	18
NHLBI	Fundamental Studies of Cardiac Morphogenesis (Letter of intent - December 31, 1985)	February	18
NHLBI	Physical Activity and Fitness Assessment Methods	March	15
NHLBI	Biological Mechanisms of Nutrient Effects of Blood Pressure	April	1
NHLBI	Development and Differentiation of Airway Epithelium (Letter of intent - February 15)	April	1

NHLBI	Preventive Cardiology Academic Award	April	1
NHLBI	Hypo- and Hyperbaric Research Support Facilities (Letter of intent - February 1)	April	1
NHLBI	Age Related Increases in Blood Pressure	April	16
<b>NIA</b>			
NIA	Aging and Visual Perception Postdoctoral Fellow	February	1
	Program Project	February	1
NIA	Health Behaviors and Aging: Behavioral Geriatrics Research	February	1
NIA	NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	February	1
NIA	NIAID/NIADDK/NICHHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	February	1
NIA	Complementary Training Awards for Research on Aging	February	1
<b>NIADDKD</b>			
NIADDKD	Clinical Centers for Diabetes Control and Complications Trial	January	21
NIADDKD	Kidney and Urological Research Centers (Letter of intent - January 15)	March	15
<b>NIAID</b>			
NIAID	Minority Research Enhancement Program	Open	
NIAID	Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
	Career Development	February	1
	Physician Scientist	February	1
	Clinical Investigator	February	1
	Postdoctoral Fellow	February	1
<b>NICHHD</b>			
NICHHD	Trophectoderm/Blastula Development	February	18
<b>NIDR</b>			
NIDR	Small Grant Program	February	1
NIDR	Large Grant Support Program	February	1
NIDR	Research Centers in Oral Biology	(1986) December	1
<b>NIEHS</b>			
NIEHS	Specialized Centers of Research (SCOR's) in Central Nervous System Neurotoxicology	February	1
NIEHS	Specialized Centers of Research in Marine and Freshwater Biomedical Sciences	February	1
NIEHS	Specialized Centers of Research in Genetic Toxicology	February	1
NIEHS	Non-Mammalian Species in Toxicological Testing	February	15

## NIGMS

NIGMS	Cellular and Molecular Basis of Disease Research	February	1
NIGMS	Physiology and Biomedical Engineering	February	1
NIGMS	Genetic Research	February	1
NIGMS	Pharmacological Sciences	February	1

## NINCDS

NINCDS	86-02, Kinesiological Modeling of the Cat Hindlimb Musculature During Locomotion	January	17
NINCDS	Clinical Evaluation of Copolymer I for Exacerbating-Remitting Multiple Sclerosis	January	21
NINCDS	Clinical Investigator Development Award	February	1
NINCDS	Multidisciplinary Research Centers for the Study of Neuro-Genetic Disorders of Infancy and Childhood (P50)	February	1
NINCDS	86-01, Closed Loop Control of Functional Neuro-muscular Stimulation	February	10

## NIOSH

NIOSH	Research and Demonstrations Relating to Occupational Safety and Health:		
	Special Emphasis Research Career Award	February	1
	Small Grant Program	February	1
	Research Grants	February	1
	Demonstration Grants	February	1
	Program Project Grants	February	1

## NLM

NLM	Investigator-Initiated Research Grants/New Investigator Research Awards	February	1
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## Division of Research Resources

DRR	Small Grants Program for Pilot Projects - Biomedical Research Technology Program	February	1
DRR	Biomedical Research Support Shared Instrumentation Grants	February	15

## Alcohol, Drug Abuse, and Mental Health

ADAMHA	Small Grants Program	Open	
ADAMHA	Research Grants, New	February	1
ADAMHA/NIH/NCHSR	Research on Digestive Diseases:		
	Research Grants	February	1
	Research Career Development	February	1
ADAMHA	Individual Postdoctoral Fellowships	February	1
ADAMHA	Institutional Training Grants, NRSA	February	1
ADAMHA	Research Scientist Development Award	February	1
ADAMHA	Research Scientist Award	February	1

NIAAA, Research on Children of Alcoholics	February	1
NIAAA, Alcohol Resource Center Grants	February	1
NIAAA, Alcohol Research Grants	February	1
NIAAA, New Investigator Research Awards	February	1
NIAAA, Research Grants on Alcohol-Related Performance Effects and Traumatic Injury	February	1
NIAAA/NIDA/NIMH, Institutional NRSA Training	February	1
NIDA/NIAAA, Community Prevention Research in Alcohol and Drug Abuse	February	1
NIDA, Drug Abuse Prevention Research	February	1
NIMH, Research Support Programs	February	1
Small Grant Program (with NIAAA and NIDA)	Open	
Grants for Mental Health Service System Research	February	1
Geriatric Mental Health Academic Awards	February	1
Preventive Intervention Research Centers (PIRC)	February	1
Rape Center	February	1
Prevention Research Branch	February	1
New Investigator Research Award (NIRA) in Prevention (with NIAAA and NIDA)	February	1
Clinical Research Centers on Psychopathology of the Elderly	February	1
Clinical Investigator Award	February	1
Physician Scientist Award	February	1
Autism and Related Behavioral Disorders (with NINCDS)	February	1
Studies on Obesity (with NIH Institutes and NIDA)	February	1
Support for Child and Adolescent Mental Health Research and Research Training	February	1
Research on Mental Illness in Nursing Homes	February	1
AA-85-02, Research Grants on the Prevention of Alcohol, Drug Abuse, and Mental Health (ADM) Disorders at the Worksite (with NIAAA and NIDA)	February	1
Service System and Economic Research Programs	February	1
MH-86-03, Assessment of Mental Health Problems in Disaster Victims	February	1
MH-86-05, Prevention Research on Mutual Support Approaches with Bereaved Populations	February	1
MH-86-07, Research on Family Stress and the Care of Alzheimer's Disease Victims	February	1
MH-84-01, Research Support Programs: Neurosciences, Behavioral Sciences, Epidemiologic, Clinical Assessment and Etiological, Treatment, Prevention and Service Research New Regular Research Grants	February	1
Support for Child and Adolescent Mental Health Research and Research Training: Research Grants	February	1
Research Grants Program	February	1
Antidepressant Drugs in the Treatment of Anxiety Disorders	February	1
Clinical Research Centers on Psychopathology of the Elderly	February	1
MH-86-06, Research on Method for Studying Mental Health Service Systems	February	1
Research Reimbursement Issues in Mental Health Services Delivery	March	1

## Office of Population Affairs

Opportunities for Research on Adolescent Family Life	February	1
Opportunities for Research in Family Planning Service Delivery Improvement	February	1

## Office of Human Development Services

National Resource Centers for Child Welfare Services	January	21
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## Health Resources and Services Administration

National Research Service Awards - Institutional Grants	February	1
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## National Center for Health Services Research

Conference Grants (Preliminary submission required prior to formal application)	Open	
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## Department of Education

Special Projects and Demonstration for Vocational Rehabilitation	February	13
Business & International Education Program	February	18
Research in Education of Handicapped		
Increasing Teaching/Learning Efficacy	January	13
Student-Initiated Research Projects	March	14
Inservice Training - Handicapped Early Education	January	20
National Institute for Handicapped Research		
Innovative Grants	until July	1
Handicapped Field Initiated Research	February	3
Office of Postsecondary Education		
International Research and Studies Program (Non-competing continuation)	February	21
Cooperative Education Program		
New Awards	January	10
Non-competing continuation	February	10
1986 Seminars Abroad Program	January	10
OSERS-		
Handicapped Childrens' Early Education Program	January	21
Educational Media Research, Production, Distribution & Training	March	3
Training Personnel for the Education of the Handicapped	March	17
Severely Handicapped Childrens' Innovative Programs	March	21

## National Science Foundation

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Program	Open	
Teacher Enhancement and Informal Science Education		
Presidential Awards for Excellence in Science and Mathematics Teaching	Open	
Postdoctoral Research Fellowships in Plant Biology. Dr. H. T. Huang, Division of Molecular Biosciences (357-9782).	January	10
Research at the Interface of Chemistry and Biology. Dr. Mary Clutter, Division of Cellular Biosciences (357-7905); Dr. James Brown, Division of Molecular Biosciences (357-9400); Dr. Richard Louttit, Division of Behavioral and Neural Sciences (357-7564); or Dr. C. William Kern, Division of Chemistry (357-7947).	January	15
U.S.-Japan Program of Cooperation in Photoconversion and Photosynthesis. (Brochure NSF 83-11). Proposals for long- and short-term visits for research; project development 2-week visit letter- proposals are accepted throughout the year. Division of International Programs (357-9558).	January	15
Earthquake Engineering Research Center. Dr. Michael Gaus, Division of Fundamental Research in Emerging and Critical Engineering Systems (357-9500).	January	15
Analysis of Science Resources. Dr. Donald Buzzelli, Science Resources Studies (634-4682).	January	15
Special Research Initiation Awards for New Investigators in Information Science and Technology. (Brochures NSF 81-34 and 81-69). Dr. Charles Brownstein, Division of Information Science and Technology (357-9700).	March	1
U.S.-Federal Republic of Germany Cooperative Science. (Brochure NSF 83-73). Semi-annual deadline for proposals for joint research and seminars. Division of International Programs (357-9700).	March	1
Cooperative Science Activities with Denmark, Iceland, the Netherlands, and Norway. (Brochure NSF 83-73). Division of International Programs (357-9700).	March	1
U.S.-Finland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	March	1
U.S.-Sweden Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	March	1
U.S.-Switzerland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-9700).	March	1
Very Large Scale Integration (VLSI) Fast Turnaround Fabrication Service for Universities	March	1
Materials for Elementary School Mathematics Instruction	March	17
U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for cooperative research projects commencing in 1987; joint seminars, exchange of scientists, and short-term visits. Division of International Programs (357-7554).	March	31
U.S.-United Kingdom Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	April	1
U.S.-Australia Cooperative Science. All proposals for projects beginning any time in 1987. Division of International Programs (357-9558).	April	1



U.S.-France Cooperative Science. (Brochure NSF 83-73). Proposals for cooperative research projects and joint workshops/seminars with requested effective dates in calendar year 1987. Division of International Programs (357-7554).	May	1
U.S.-Argentina Cooperative Science. (Brochure NSF 80-52). Mr. Dimas Chavez, Division of International Programs (357-9563).	May	1
U.S.-Brazil Cooperative Science. (Brochure NSF 80-52). Mr. Dimas Chavez, Division of International Programs (357-9563).	May	1
U.S.-Mexico Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
U.S.-Venezuela Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
U.S.-Latin America and Caribbean Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
Computer Research Equipment. (Brochure NSF 84-87). Limited to research equipment to support multiple research projects in computer science or computer engineering at graduate institutions. Dr. John Lehmann, Division of Computer Research (357-7349).	May	1
Programs in Preparing Middle School Science and Mathematics Teachers (202) 375-7069.	May	2
U.S. Antarctic Research. For field work in the 1987-1988 austral summer or in 1988 winter, or for research not involving field work beginning as early as November 1986. Mr. Guy Gurthridge, Division of Polar Programs (357-7817).	June	1
U.S.-Japan Cooperative Science. (Brochure NSF 81-58). Proposals for cooperative research and joint seminar activities are accepted in May each year. Division of International Programs (357-9558).	June	1
U.S.-Italy Cooperative Science. (Brochure NSF 83-73). Proposals for cooperative research projects and joint seminars. Division of International Programs (357-7554).	June	1
U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for short-term visits only to plan scientific research or carry-out short, self-contained research activities. Division of International Programs (357-7554).	June	15
U.S.-Korea Cooperative Science. (Brochure NSF-83-50). Proposals for long-term visits and cooperative research only. Dr. Gerald Edwards, Division of International Programs (357-9537).	July	1
U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). Philippine component only. Proposals for long-term visits, cooperative research, seminars and workshops. Dr. Gerald Edwards, Division of International Programs (357-9537).	July	1
Ship Operations. (Brochure NSF 84-63). "Instructions for Preparation of Proposals, Requesting Support for Oceanographic Facilities." Mr. John McMillan, Division of Ocean Sciences (357-7837).	July	1

Shipboard Technicians. (Brochures NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	July	1
Small Business Innovation Research. Mr. Roland Tibbetts or Mr. Richie Coryell, Division of Industrial Science and Technological Innovation (357-7527).	July	14
<u>Target Dates for NSF Proposals:</u> Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.		
Systematic Biology. (Brochure NSF 84-68). Dr. James Rodman, Division of Biotic Systems and Resources (357-9588).	January	15
Integrative Neural Systems. (Brochure NSF 84-72). Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (357-7040).	January	15
Molecular and Cellular Neurobiology. (Brochure NSF 84-17). Dr. Stephen Morris, Division of Behavioral and Neural Sciences (357-7471).	January	15
Developmental Neuroscience. (Brochure NSF 84-72). Dr. Carol Welt, Division of Behavioral and Neural Sciences (375-7428).	January	15
Sensory Physiology and Perception. (Brochure NSF 84-72). Dr. Kathie Olsen, Division of Behavioral and Neural Sciences (357-7949).	January	15
Cell Biology. (Brochure NSF 85-11). Dr. Arnold Kaplan or Dr. Gertrude Kasebekar, Division of Cellular Biosciences (357-7474).	February	1
Cellular Physiology. (Brochure NSF 85-11). Dr. Maryanne Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (357-7377).	February	1
Developmental Biology. (Brochure NSF 85-11). Dr. Joseph Mascarenhas, Division of Cellular Biosciences (357-7989).	February	1
Eukaryotic Genetics. (Brochure NSF 85-11). Dr. DeLill Nasser, Division of Cellular Biosciences (375-0112).	February	1
Regulatory Biology. (Brochure NSF 85-11). Dr. Lewis Greenwald or Dr. Elvira Doman, Division of Cellular Biosciences (357-7975).	February	1
Biological Oceanography, Chemical Oceanography, Marine Geology and Geophysics, Physical Oceanography. Dr. Robert Wall, Division of Ocean Sciences (357-7924).	February	1
Ocean Sciences Instrumentation Development. (Brochure NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	February	1
Linguistics. (Brochure NSF 84-72). Dr. Paul Chapin, Division of Behavioral and Neural Sciences (357-7696).	February	1
Memory and Cognitive Processes. (Brochure NSF 84-72). Dr. Joseph Young, Division of Behavioral and Neural Sciences (357-9898).	February	1
U.S.-Yugoslavia Cooperative Research. Cooperative research projects. Proposals should not be submitted to NSF (information copies are appreciated) but to FAISECTC in Yugoslavia. Dr. Gerson Sher, Division of International Programs (357-7494).	April	1

U.S.-Eastern European Cooperative Science. (Brochure NSF 81-27). Bulgaria, Hungary, and Romania cooperative research projects, bilateral seminars. Dr. Gerson Sher or Ms. Bonnie Thompson, Division of International Programs (357-7494).	May	1
Doctoral Dissertation Research in Biotic Systems and Resources. (Brochure NSF 83-71). Dr. James Edwards, Division of Biotic Systems and Resources (357-7475).	May	1
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	May	1
Biological Oceanography, Chemical Oceanography, Marine Geology and Geophysics, Physical Oceanography. Dr. Robert Wall, Division of Ocean Sciences (357-7924).	June	1
Ocean Drilling Program, U.S. Science. Dr. Garrett Brass, Division of Ocean Sciences (357-7924).	June	1
Ecology. (Brochure NSF 84-68). Dr. Patrick Flanagan, Division of Biotic Systems and Resources (357-9734).	June	16
Ecosystem Studies. (Brochure NSF 84-68). Dr. James Gosz, Division of Biotic Systems and Resources (357-9596).	June	16
Population Biology and Physiological Ecology. (Brochure NSF 84-68). Dr. James Collins, Division of Biotic Systems and Resources (357-9728).	June	16
Systematic Biology. (Brochure NSF 84-68). Dr. James Rodman, Division of Biotic Systems and Resources (357-9588).	June	16
Cell Biology. (Brochure NSF 85-11). Dr. Arnold Kaplan or Dr. Gertrude Kasebekar, Division of Cellular Biosciences (357-7474).	July	1
Cellular Physiology. (Brochure NSF 85-11). Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (357-7377).	July	1
Developmental Biology. (Brochure NSF 85-11). Dr. Joseph Mascarenhas, Division of Cellular Biosciences (357-7989).	July	1
Eukaryotic Genetics. (Brochure NSF 85-11). Dr. DeLill Nasser, Division of Cellular Biosciences (357-0112).	July	1
Regulatory Biology. (Brochure NSF 85-11). Dr. Lewis Greenwald or Dr. Elvira Doman, Division of Cellular Biosciences (357-7975).	July	1
Social and Developmental Psychology. (Brochure NSF 84-72). Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (357-9485).	July	1
Molecular and Cellular Neurobiology. (Brochure NSF 84-72). Dr. Stephen Morris, Division of Behavioral and Neural Sciences (357-7471).	July	15
Psychobiology. (Brochure NSF 83-57). Dr. Fred Stollnitz or Kathie Olsen, Division of Behavioral and Neural Sciences (357-7949).	July	15
Developmental Neuroscience. (Brochure NSF 84-72). Dr. Frank Collins, Division of Behavioral and Neural Sciences (357-7042).	July	15
Integrative Neural Systems. (Brochure NSF 84-72). Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (357-7040).	July	15
Sensory Physiology and Perception. (Brochure NSF 84-72). Dr. Carol Welt, Division of Behavioral and Neural Sciences (357-7428).	July	15

\*NSF Proposals may be submitted for the following programs at any time of the year. It takes approximately six to nine months to process a proposal. Brochures indicated in parentheses may be ordered.

Division of Astronomical Sciences:

- Astronomical Instrumentation and Development. Dr. G. W. Van Citters, Jr. (357-9793). \*
- Extragalactic Astronomy. Dr. James Wright (357-7639). \*
- Galactic Astronomy. Dr. Morris Aizenman, (Acting) (357-7620). \*
- Solar Systems Astronomy. Dr. G. W. Van Citters, Jr. (Acting) (357-7620). \*
- Stars and Stellar Evolution. Dr. Peter Pesch (357-7622). \*
- Electromagnetic Spectrum. Dr. Vernon Pankonin (357-9696). \*

Division of Atmospheric Sciences:

- Aeronomy. Dr. William Sharp (357-7619). \*
- Atmospheric Chemistry. Dr. Jarvis Moyers (357-9657). \*
- Experimental Meteorology. Dr. Stephan Nelson (357-9431). \*
- Global Atmospheric Research. Ms. Pamela Stephans (357-9887). \*
- Meteorology. Dr. Ronald Taylor (357-7624). \*
- Solar Terrestrial. Dr. Dennis Taylor (357-7624). \*
- Upper Atmospheric Facilities. Dr. Richard Behnke (357-7390). \*

Division of Behavioral and Neural Sciences:

- Anthropology. Doctoral Dissertation Research (Brochure NSF 84-6). Ms. Mary Greene (357-7804). \*
- Psychobiology. Small grants for psychobiological research. Dr. Fred Stollnitz (357-7949). \*

Division of Chemistry:

- Synthetic Inorganic and Organometallic Chemistry. (Brochure NSF 83-57). Dr. Oren Williams (357-7499). \*
- Chemical Analysis. (Brochure NSF 83-57). Dr. Henry Blount, III (357-7960). \*
- Structural Chemistry and Thermodynamics. (Brochure NSF 83-57). Dr. William Harris (357-9826). \*
- Chemical Physics. (Brochure NSF 83-57). Dr. William Cramer (357-7951). \*
- Chemical Dynamics. (Brochure NSF 83-57). Dr. Richard Holder (357-7956). \*

Division of Computer Research:

- Computer Systems Design. Dr. John Lehmann (357-7349). \*
- Intelligent Engineering. Dr. Su-Shing Chen (357-7345). \*
- Software Engineering. Dr. Bruce Barnes (357-7375). \*
- Software Systems Science. Dr. Thomas Keenan (357-7375). \*
- Theoretical Computer Science. Dr. Thomas Head (357-7375). \*
- Special Projects. Mr. Lawrence Oliver (357-7375). \*

Division of Design, Manufacturing, and Computer Engineering:

- Computer Engineering. Dr. Bernard Chern (357-7508). \*
- Design Theory and Methodology. Dr. Susan Finger (357-7676). \*
- Computer Integrated Engineering. Dr. Howard Moraff (357-7676). \*
- Manufacturing Systems. Dr. William Spurgeon (357-7676). \*
- Automated and Systems Integration. Dr. Howard Moraff (357-7676). \*

Division of Electrical, Communications, and Systems Engineering:

- Quantum Electronics, Waves and Beams. Dr. James Aller (357-9618). \*

- Solid State and Microstructures. Dr. Donald Silversmith (357-9618). \*
- Communications Systems and Signal Processing. Mr. Elias Schutzman (357-9618). \*
- Systems Theory and Operations Research. Dr. Michael Polis (357-9618). \*
- Instrumentation, Sensing and Measurement. Mr. Norman Caplan (357-9618). \*
- Division of Information Science and Technology:
- Information Science. (Brochure NSF 81-34). Dr. Joseph Deken (357-9569).
- Information Technology. (Brochure NSF 81-34). Dr. Harold Bamford (357-9554). \*
- Information Impact. (Brochure NSF 81-34). Dr. Laurence Rosenberg (357-9592).
- Division of International Programs:
- U.S.-Korea Cooperative Science. (Brochure NSF 83-50). Short-term visits only. Dr. Gerald Edwards (357-9537). \*
- U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). Excluding Philippines and Korea. Dr. Gordon Hiebert (357-9537). \*
- U.S.-India Cooperative Science. (Brochure NSF 82-86). Dr. Osman Shinaishin (357-9402). \*
- U.S.-Pakistan Cooperative Science. (Brochure NSF 82-49). Dr. Osman Shinaishin (357-9402). \*
- U.S.-China Cooperative Science. (Brochure NSF 82-50). The program currently does not accept travel requests. Mr. Alexander DeAngelis or Ms. Rose Bader (357-7993). \*
- U.S.-Belgium Cooperative Science. (Brochure NSF 83-73). Cooperative research projects, joint seminars (357-7554). \*
- U.S.-Japan Program for Cooperation in Photoconversion and Photosynthesis. (Brochure NSF 83-11). Letter-proposals for visits up to two weeks in Japan to plan formal research in cooperation with Japanese investigators in the areas of photoconversion and photosynthesis (357-9558). \*
- U.S.-Ireland Cooperative Science. (Brochure NSF 83-73). Cooperative research projects and joint seminars (357-7554). \*
- Division of Materials Development and Research:
- Instructional Materials Development; Materials and Methods for Teacher Preparation; Applications of Advanced Technologies; Research in Teaching and Learning. (Brochure NSF 85-10). For suggested target dates or other information contact the Division (357-7452). \*
- Division of Molecular Biosciences:
- Biochemistry. (Brochure NSF 84-79). Dr. Ira Wool, Dr. H. T. Huang, or Mrs. Estella Engel (357-7945). \*
- Biological Instrumentation. (Brochures NSF 84-79 and 83-19). Dr. John Wooley (357-7652). \*
- Biophysics. (Brochure NSF 84-79). Dr. Arthur Kowalsky, Dr. Patricia Jost, or Ms. Brenda Flam (357-7777). \*
- Metabolic Biology. (Brochure NSF 84-79). Dr. W. van B. Robertson or Ms. Carter Kimsey (357-7987). \*
- Prokaryotic Genetics. (Brochure NSF 84-79). Dr. Philip Harriman (357-9687). \*

Division of Physics:

Atomic, Molecular, and Plasma Physics. Dr. Rolf Sinclair  
(357-7997). \*

Elementary Particle Physics. Dr. David Berley (357-9575). \*

Intermediate Energy Nuclear Physics. Dr. Peter Riley  
(357-7992). \*

Nuclear Physics. Dr. William Rodney (357-7992). \*

Theoretical Physics. Dr. Boris Kayser (357-7979). \*

Division of Research Initiation and Improvement:

Research in Undergraduate Institutions. (Brochure NSF 83-79).

Proposals submitted through the RUI program are evaluated  
by the appropriate disciplinary programs in NSF. For more  
specific target dates and number of copies of proposals  
needed, contact the appropriate disciplinary program or for  
general information, contact Dr. Joseph Danek or Ms. Lola  
Roger (357-7456). \*

Minority Research Initiation. (Brochure NSF 84-75). Dr.  
Roosevelt Calbert (357-7350). \*

Facilitation Awards for Handicapped Scientists and Engineers.  
(Brochure NSF 84-62). Proposals for special equipment or  
assistance to facilitate research by the handicapped as  
part of NSF-supported projects. Ms. Lola Rogers (357-7552). \*

Research Opportunities for Women. (NSF Brochure in press).  
Proposals submitted through the ROW program are evaluated  
by the appropriate disciplinary programs in NSF. For more  
specific target dates and number of copies of proposals  
needed, contact the appropriate disciplinary program or  
for general information contact Dr. Margaret Klein or Ms.  
Carol Erlebach (357-7734). \*

Division of Teacher Enhancement and Informal Science Education:

Local and Regional Teacher Development; Leadership Activities  
for Precollege Teachers; Informal Science Education;  
Science and Mathematics Education Networks. (Brochure  
NSF 85-9). For suggested target dates for proposals for  
projects to be initiated during the latter part of the 1986  
calendar year, contact the Division (357-7073). \*

Programs in Other Divisions/Offices:

Biological Research Resources. (Brochure NSF 84-68). Dr.  
James Edwards, Division of Biotic Systems and Resources  
(357-7475). \*

Industry/University Cooperative Research Projects.  
(Brochure NSF 82-56). Dr. Frederick Betz (357-7785) or  
Mr. Alex Schwarzkopf (357-7527), Office of Cross-  
Disciplinary Research. \*

Industry/University Cooperative Research Centers. Mr.  
Robert Colton or Mr. Alex Schwarzkopf, Office of Cross-  
Disciplinary Research (357-7527). \*

Studies and Analyses. Mr. Richard Berry, Office of Studies  
and Program Assessment, Science and Engineering Education  
(357-7425). \*

Alternative Biological Resources. (Brochure NSF 84-40).

This program is being terminated in fiscal year 1985.  
Interested persons should contact Dr. H. T. Huang, Division  
of Molecular Biosciences (357-9782) for suggestions of  
alternative programs to which their proposals may be  
submitted. \*

## U.S. Department of Agriculture

### Competitive Research Grants Program

Plant Science		
Biological Nitrogen Fixation	February	17
Genetic Mechanisms for Crop Improvement	March	3
Biotechnology		
Molecular and Cellular Mechanisms for Growth and Development (Plant Studies)	January	13
Molecular Biology (Animal)	February	17
Genetic and Molecular Mechanisms Controlling Responses to Physical and Biological Stress	February	24
Animal Science		
Reproductive Physiology	February	10
Brucellosis	February	17
Insect Pest Science	February	24
Alcohol Fuels	February	10
Soybean	Various	

## Department of Commerce

National Bureau of Standards; Center for Manufacturing Engineering, Automated Manufacturing Research Facility (AMRF) Research Grants Program	Open	
Precision Measurement Grants	February	1

## Department of Defense

Office of Naval Research		
Strategic Defense Initiative	Open	
Graduate Fellowship Program 1986	January	31
Summer Faculty Research Programs 1986 (in conjunction with ASEE)	February	1
Strategic Defense Initiative Innovative Science and Technology Office	Open	
U.S. Air Force		
University Resident Research Program	Open	
Summer Faculty Research Program	February	1

## Department of Energy

Office of Energy Research		
Special Research Grants Programs	Open	

## Department of Interior

U.S. Geological Survey		
National Earthquake Hazards Reduction Program for Fiscal Year 1987	February	20
Water Resources Research Grant Program	February	28

## Department of Justice

Office of Juvenile Justice and Delinquency Prevention Research and Program Development Programs	Open	
National Institute of Justice Alternative Police Responses to Spouse Assault	March	4

## Environmental Protection Agency

Environmental Biology	Open*
Environmental Health	Open*
Environmental Engineering	Open*
Environmental Air/Water Chemistry and Physics	Open*
Special Research Grants and Student Fellowship Program	Open*
*Suggested closing date - February 15	

## National Endowment for the Arts

U.S./French Exchange Program: Deadline varies with Discipline	Various
Museum Special Projects	Open

## National Endowment for the Humanities

Division of Education Programs Central Disciplines in Undergraduate Education	April	1
Exemplary Projects in Undergraduate and Graduate Education	April	1
Humanities Programs for Nontraditional Learners	April	1
Improving the Preparation of Teachers of Humanities	Contact ORTTA	
Division of Fellowships & Seminars Independent Study and Research	June	1
College Teachers	June	1
Constitutional Fellowships	June	1
Division of General Programs Media	March	21
Humanities Programs for Adults	March	21
Humanities Projects in Libraries	March	21
Museum & Historical Organizations	June	13
Youth Projects (Preliminary Narrative - April 1986)	June	13
Division of Research Programs Publication Subvention	April	1
Editions	June	1
Translations	June	1
Office of Challenge Grants	May	1
Office of Preservation	June	1



## National Gallery of Art

Center for Advanced Study in the Visual Arts  
Visiting Senior Fellowships and Associates  
(For 9/16/86-2/28/87)

March 21

## National Research Council

Associateship Programs (JH 608/S-4)  
Ford Foundation Postdoctoral Fellowships for Minorities

January 15  
January 17

## National Aeronautics & Space Administration

Summer Faculty Programs 1986 (in conjunction with ASEE)  
Airborne Astronomy Program

February 1  
Open

## U.S. Information Agency

Bureau of Educational and Cultural Affairs  
University Affiliations Program

February 18

## NONFEDERAL

American Chemical Society - Petroleum Research Fund  
Grants-in-Aid

No Deadline

American Council of Learned Societies  
Mellon Chinese Summer Language Grants

February 15

American Honda Foundation  
Grants for Youth & Scientific Education

February 1

American Numismatic Society  
1986 Grants for Summer Study in Numismatics

March 1

American Philosophical Society  
Grants-in-Aid

Various--Contact ORTTA

Annenberg/Corporation for Public Broadcasting  
Education Through Telecommunications  
Full Proposals

January 28

Arthritis Foundation - Minnesota Affiliate

February 15

Bosch Foundation Fellowship Program

No Deadline

Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)

No Deadline

Carnegie Corporation

No Deadline

Center for Advanced Studies  
Mellon Junior Scholars Program

January 15

Center for Field Research (Earthwatch)

Latin America Field Research Grants

No Deadline

Edna McConnell Clark Foundation

No Deadline

Engineering Foundation (Pre-proposals)

No Deadline

Exxon Education Foundation - Grants for Curriculum and  
Teaching and Management of Higher Education Programs

Open

Ford Foundation Fellowship Programs in Combined Soviet/  
East European & International Security Studies

Graduate and Post Graduate Support

March 1

Gas Research Foundation Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline
German Marshall Fund Short-Term Travel Awards	No Deadline
J. Paul Getty Trust Postdoctoral Fellowships in the History of Art and the Humanities	January 10
GTE Foundation Lectureship Program Science, Technology, and Human Values 1986-87	March 1
International Foundation of Employee Benefit Plans Postdoctoral Grants-in-Aid	Open
International Research and Exchanges Board Research Exchanges with the USSR for 1986/87 ACLS: Short-Term Research	January 31
East European Research Exchanges for 1986/87 Short-term Research in Eastern Europe	January 31
USSR Exchange of Language Teachers for Summer 1986 Specialized Language Training	January 15 March 15
Fellowships for Comparative Studies Including the USSR and Eastern Europe	March 15
Grants for Collaborative Activities and New Exchanges Travel Grants for Senior Scholars	January 31 January 31
Robert Wood Johnson Foundation Faculty Fellowships in Health Care Finance	January 10
Juvenile Diabetes Foundation Research Grant Applications	March 1
Kellogg Foundation Expanding Opportunities for Adult Continuing Education Health Promotion and Disease Prevention Programs Coordinated, Cost-Effective Health Service Programs Improving Human Well Being Through Productive Agriculture Fostering Leadership Capacity	Continuous Continuous Continuous Continuous
MacArthur Foundation International Security Program	Open
March of Dimes Birth Defects Foundation Basil O'Connor Starter Research Grants Reproductive Hazards in the Workplace	Continuous June 1
Mathers Charitable Foundation	Continuous
Metropolitan Life Foundation	No Deadline
Minnesota Humanities Commission Small Grant	No Deadline
National Foundation for Ileitis & Colitis	February 1
National Multiple Sclerosis Society Research Grants Postdoctoral Fellowships Junior Faculty Awards	February 1 February 1 February 1
National Geographic Society Grants-in-Aid	No Deadline
Research Corporation (Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline
Rockefeller Foundation Research on the Genetic Engineering of Rice	Open

Fellowships in the Humanities	
Individual Fellowships	January 31
Institutional Applications	January 31
Alfred P. Sloan Foundation	No Deadline
Solar Energy Resources Institute	
University Participation Program for Solar Thermal Research	February 20
Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial	
Instrumentation - Pre-proposals	No Deadline
Thrasher Research Fund	
Grants in Nutrition, Infectious Diseases, Health	
Promotion	No Deadline
University Genetics Company (UGEN)	No Deadline
Veterans of Foreign Wars of the United States	
Ladies Auxiliary - Cancer Fellowships Grants	February 15
Villers Foundation	No Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

MHC  
3-12-86

# ORR RDC Newsletter

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## Impact of Gramm-Rudman Act

The impact of the Gramm-Rudman-Hollings Budget Deficit Reduction Act on the University research is uncertain at this time but should be somewhat clarified by March 1. The cause of uncertainty is that the Act has two equally possible consequences, dependent upon two political variables, the President and Congress. The Act's potential impact revolves around whether the President and Congress can agree on a Federal budget.

The Office of Management and Budget and the Congressional Budget office currently are calculating across-the-board cuts to meet the mandated reduction of \$11.7 billion in Federal budget cuts for FY1986. By January 20 their report is due to the President, who must implement the cuts through executive order by February 1. The President and Congress then have 30 days to arrive at an alternative budget plan. If they cannot agree, those across-the-board cuts will become effective March 1. If however, the President and Congress can agree upon a Federal budget, cutting some programs and saving others, that budget will become law.

Either way, University researchers are being affected by this activity. Because of the uncertainty as to whether the President and Congress can agree on budget cuts or whether across-the-board cuts will be implemented, some agencies are adopting a conservative approach with respect to funding FY1986 research grants. The National Heart, Lung, and Blood Institute, for example, is reducing the amount of some FY86 awards as a precaution against potential cuts. Other agencies are placing a freeze on spending FY86 funds and/or holding back the issuance of award notices pending the outcome of this budgetary activity.

The effect of FY1986 funding should be clearer by March 1, 1986. The longer-term effect on future funding of federal research programs awaits the outcome of this initial phase of budget reduction activity. Staff in ORTTA will be monitoring the progress of this activity and will provide further information in future issues of this newsletter.

## Protection of Ideas Disclosed in Research Proposals

Research proposals may contain unpublished ideas that have significant commercial potential. Premature public disclosure of these ideas can have a harmful effect on the ability of the University and faculty members to protect the ideas (through patents or other means) and to implement beneficial use of the ideas. In order to help prevent these consequences, the University Office of Patents and Licensing suggests that the following notice be added to the beginning of such proposals:

THIS PROPOSAL IS BEING SUBMITTED ONLY FOR THE PURPOSE OF REVIEW. USE OF THIS PROPOSAL AND THE IDEAS IT CONTAINS SHALL BE LIMITED TO A DETERMINATION OF WHETHER OR NOT TO FUND THE PROJECT DESCRIBED. RECIPIENTS SHALL NOT PUBLISH OR PUBLICLY DESCRIBE THE IDEAS CONTAINED IN THIS PROPOSAL.

While it is generally acknowledged that solicitations for funding are confidential, the above notice makes that status clear. The notice will also help insure that all persons reviewing the proposal will be made aware of that status.

Use of this notice is not mandatory. However, the Office of Patents and Licensing recommends that it be used whenever principal investigators believe that the proposal (whether to Government agencies, private foundations, or commercial companies) discloses ideas that they may wish to protect and to commercialize in some manner. Where the proposal discloses ideas that the investigators wish to protect, a copy of the proposal should be concurrently sent to Patents and Licensing for a review of the invention. Patent applications may be filed on inventions still in the idea stage before they are reduced to practice.

### **\$5 Charge for Emergency Orders Withdrawn**

The following memorandum regarding the withdrawal of the \$5 charge for Emergency Purchase orders was recently distributed by Katherine Cram, Director of Purchasing and Materials Management. It is reproduced here for your information.

To: Deans, Directors, Department Heads, Administrators, and Faculty

You were advised several weeks ago that orders called in through the emergency order desk would be charged \$5, unless the order was for repair or repair parts.

This \$5 CHARGE FOR EMERGENCY ORDERS WILL NOT BE IMPLEMENTED. Additional input from faculty and administrators have convinced us that this service is helpful in supporting the University's research efforts, and will therefore be continued until better alternatives are found.

Nevertheless, emergency orders have increased dramatically in the last couple years. From a departmental control standpoint, these are purchases that can be made without proper departmental authorization. You may wish to consider using one of the following procedures, which are not only quick, but also provide departmental control of purchases:

- 1) STOREHOUSES - If what you need is carried in Chemical or General Storehouses, call and request emergency delivery. You will receive the item within 24 hours -- sometimes sooner.
- 2) CONTRACT RELEASE ORDERS - If your item is under \$500 and is available from one of the suppliers on the Annual Contract list, call or take the order form directly to the supplier. You can send through the paperwork after you place the order or pick up your item.
- 3) QUICK ORDERS - This is the form that we type for you when you call in most emergency orders. It is a combined requisition and purchase order for any purchases under \$2,000. Rather than calling the information in, you can complete the form and send it to us. After we receive it, it is handled just as quickly as an emergency order.
- 4) BLANKET ORDERS - If you have frequent small orders with the same supplier, call one of our buyers to set up a blanket order. You will save time and paperwork by having one purchase order number to use throughout the year.
- 5) REIMBURSEMENT - You can, as a last resort, purchase items under \$200 and request reimbursement from Accounting Records and Services by filling out a Type 36 form.

One of the major priorities of Purchasing and Materials Management is to make the purchasing process easier and quicker for University departments, while at the same time take advantage of proven methods such as competitive bidding to obtain quality goods at the best prices. We need your input and feedback if we are to succeed. I encourage those of you with problems and concerns to call myself or any of us in Purchasing and Materials Management.

#### **New Animal Usage Form, BA Form 22**

In response to new animal care and use requirements implemented by many sponsoring agencies, the Animal Use Form (BA-22) has been revised. The forms are being printed and should be available from the General Storehouse. Since the form has been revised significantly, old forms will not be acceptable after January 1, 1986. Questions regarding this form should be directed to Research Animal Resources at 376-5097.

#### **Revised Policy on Use of Animals in NSF-Sponsored Research**

Effective January 1, 1986, the National Science Foundation (NSF) policy on the use of animals in NSF-sponsored research has been revised to coordinate with the Public Health Service revised "Policy on Human Care and Use of Laboratory Animals by Awardee Institutions and with the U.S. Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research and Training". The result of this revision is that before a grant involving the use of vertebrate animals can be made, NSF must receive a statement that the research has been reviewed and approved by the appropriate Institutional Animal Care and Use Committee at the grantee institution. This statement needs to be received well before final processing of an award, and should be included in the research proposal submitted to the NSF. In addition, sufficient information should be included in the proposal to allow for evaluation with respect to the choice of species, the number of animals to be used, and any necessary exposure of animals to discomfort, pain, or injury. All such proposals should have the "Animal Welfare" box checked on the cover page. For additional information regarding the University of Minnesota procedures implemented as result of these PHS policy changes, refer to the January 1986 ORTTA Newsletter. Questions regarding NSF policy should be directed to Mary Bergaas at 373-2784.

## Post-Performance Evaluation of NSF Awards

Applicants should describe results of prior NSF support in all proposals submitted to NSF after September 30, 1985. This documentation is needed to insure that, to the extent reasonable, the past performance of principal investigators on NSF awards is evaluated as a part of the review of subsequent proposals.

If you have received an NSF award in the past 5 years the following documentation will be required in a section of the proposal entitled "Results from Prior NSF Support":

- The NSF award number, amount and period of support.
- The title of the project
- A summary of the results of the completed work.
- List of publications acknowledging the NSF award.
- If the proposal is for renewal of a grant, then a description of the relationship between the completed work and the proposed work.

If you have received multiple prior awards, provide the documentation for the prior award which is most closely related to the proposal.

## Special Guidelines for Submitting Proposals to the NSF Directorate for Engineering

Special guidelines have been established for proposals submitted to the Directorate for Engineering. In addition to the format contained in Grants for Scientific and Engineering Research (NSF 83-57), investigators should also include a separate section in the proposal which describes the impact of the proposed research. This section should discuss potential new discoveries or advances which are expected as a result of the research and the specific contributions the proposed work will make toward expanding or developing the knowledge and technology base. Reviewers are being asked to provide specific comments on this aspect of the research including the principal investigator's own assessment of the potential contributions.

The Engineering Directorate is particularly interested in supporting novel and innovative research directed at strengthening the knowledge base in established disciplines as well as research projects seeking to break new ground in emerging areas. Thus, the likelihood that the proposed research will lead to new discoveries or fundamental advances in the knowledge or technology base will be an important criterion on which engineering program staff will base their decision to support a particular proposal.

## Fund for the Improvement of Postsecondary Education

Preapplications are invited for new awards under the Comprehensive Program of the Fund for the Improvement of Postsecondary Education. Under this program, the Fund provides grants to and cooperative agreements with institutions of postsecondary education and other public and private educational institutions and agencies to improve access to, and the quality of, postsecondary education. Preapplications are required for the competition. These five page proposals, used in initial screening, are due March 4, 1986. Full applications are accepted only from groups with approved preapplications. Areas in which proposals are sought include those that would:

- ensure that undergraduate curricula provide needed knowledge and skills, including knowledge of our intellectual and cultural heritage;
- improve the quality of undergraduate education by strengthening programs, evaluation methods and teaching policies;
- improve teaching and access to teaching careers, and
- reform graduate education, bringing it up to date with new technology and concerns.

### Dissemination of Nuclear Energy Process and Safety Information (NRC)

The Nuclear Regulatory Commission is accepting grant applications for Fiscal 1986 funds to support professional meetings, national and international commissions and publications to exchange ideas about the research necessary to provide a technology base to assess the safety of nuclear power. The purpose of the program will be to stimulate research to provide the means to evaluate the safety of systems and subsystems technologies used in nuclear power applications. The results of the program will be used to increase public understanding relating to nuclear safety. Applications may be submitted anytime. For further information, contact the Nuclear Regulatory Commission, Patricia Smith, (301) 492-4294.

### March of Dimes Birth Defects Foundation

Prior to submission of applications for the following research programs of the March of Dimes Birth Defects Foundation, a letter of inquiry with a 300-word abstract of the proposal must be submitted. On the top right hand corner of the abstract, the experimental model to be used should be indicated; for example humans, rabbits, tissue cultures, etc. Programs and deadlines dates are:

<u>Program</u>	<u>Application Date</u>	<u>Effective Date</u>
Reproductive Hazards in the Workplace	June 1st	December 1st
Clinical	August 1st	April 1st
Social and Behavioral Sciences	September 1st	March 1st
Basic	October 1st	July 1st
Basil O'Connor Starter Research Awards	Continuous	September 1st

Further inquires concerning these research programs should be directed to March of Dimes Birth Defects Foundation, Grants Administration, 1257 Mamaroneck Avenue, White Plains, NY 10605, (914) 428-7100.

### SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."



THE ORTTA CONTACT NUMBERS FOR DEADLINE/PROGRAM INFORMATION ARE 376-7358 OR 376-7689.

FEDERAL

National Institutes of Health

NIH

NIH	Fogarty International Center, Eastern European Scientist Exchange Program, Health Scientist Exchange Program (Poland, Romania, U.S.S.R., Hungary and Yugoslavia)	Open	
NIH	Fogarty International Center, Visiting Scientists Program of the National Science Council, Taiwan (Application must be submitted at least three months in advance of intended commencement date of visit)	Open	
NIH	Research Grants, Renewals	March	1
NIH	Fogarty International Center Senior International Fellowships	May	10
NIH	National Research Service Awards for Senior Fellows	May	10
NIH	National Research Service Awards for Individual Postdoctoral Fellows	May	10
NIH	National Research Service Award Institutional Grants	May	10
NIH	Institutional Training Programs	May	10
NIH	Research Grants, New	June	1
NIH	New Investigator Awards	June	1
NIH	Research Career Development Awards	June	1
NIH	Individual Postdoctoral Fellowships	June	1
NIH	Support of Scientific Meetings	June	1

NCI

NCI	CN-65006-03, Primary Prevention (Smoking) of Cancer in Black Populations	February	17
NCI	86-CA-02, Cancer Control Small Grants	February	21
NCI	86-CA-05, Drug Discovery Groups for Treatment of AIDS (NCI/NIAID) (Letter of intent, January 15)	March	10
NCI	Quality of Survival for Childhood Cancer Patients (Letter of intent January 15)	March	15
NCI	Prevention Clinical Trials: Cooperative Agreements	April	1
NCI	Prevention Clinical Trials Utilizing Intermediate Endpoints and Their Modulation by Chemopreventive Agents	April	11
NCI	Surgical Oncology Training Grants	May	10
NCI	Outstanding Investigators Grant	May	15
NCI	Cancer Education Program	June	1
NCI	Comprehensive Minority Biomedical Program - Minority Satellite Supplement	June	1
NCI	Comprehensive Minority Biomedical Program - Minority Investigator Supplement	June	1
NCI	Multinuclear Magnetic Resonance Imaging and Spectroscopy	June	1

NCI	Studies of Dose Fractionation and Volume Late Effects in Normal Tissues Using Animal Models	June	1
NCI	Studies on Feline Retroviruses	June	1
NCI	Small Grants Program for Epidemiology	June	1
NCI	Micronutrients on Prevention of Experimental Mammary Cancer	June	1
<b>NEI</b>			
NEI	Non-Mammalian Species in Toxicological Testing	February	15
NEI	Inherited Retinal Degeneration in Anemal Mutants	April	1
NEI	Collaborative Ocular Melanoma Study: Cooperating Clinics	April	1
NEI	Small Grants Program for Pilot Projects	June	1
NEI	NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
<b>NHLBI</b>			
NHLBI	86-HL-01-B, Hemostatic Defects on Renal Failure: Pathogenesis and Treatment	February	18
NHLBI	Membrane Transport, Permeability, and Volume Control in Sickle Cell Disease	February	18
NHLBI	Fundamental Studies of Cardiac Morphogenesis (Letter of intent - December 31, 1985)	February	18
NHLBI	Physical Activity and Fitness Assessment Methods	February	18
NHLBI	Biological Mechanisms of Nutrient Effects of Blood Pressure	April	1
NHLBI	Development and Differentiation of Airway Epithelium (Letter of intent - February 15)	April	1
NHLBI	Preventive Cardiology Academic Award	April	1
NHLBI	Hypo- and Hyperbaric Research Support Facilities (Letter of intent - February 1)	April	1
NHLBI	Age Related Increases in Blood Pressure (NIA)	April	16
NHLBI	Model Systems for Blood Cholesterol Screening	April	16
NHLBI	86-HL-8-P, Research in Nutrition and Cardiovascular Disease (Letter of intent - February 15)	April	18
NHLBI	Research Training and Development Area: National Research Service Award Programs		
	Institutional Research Training Grant Award	May	10
	Individual Postdoctoral Fellowship Award	May	10
	Senior Research Fellowship Award	May	10
	Research Career Development Programs		
	Research Career Development Award	June	1
	Clinical Investigator Award	June	1
	Physician Scientist Award	June	1
	Special Emphasis Research Career Award: Diabetes Mellitus	June	1
NHLBI	Research Career Development Award: Basic Science Related to the Respiratory System	June	1
NHLBI	Demonstration and Education Research in Cystic Fibrosis	June	1
NHLBI	Cardiovascular Studies in Animals	June	1
NHLBI	Blood Cell Surface Antigens Related to Disease	June	1
NHLBI	86-HL-07-B, Comprehensive Sickle Cell Centers	September	15

**NIA**

NIA	86-AG-01, Mechanisms Responsible for Age-Related Increase in Blood Pressure (NHLBI)	April	16
NIA	Aging and Visual Perception Postdoctoral Fellow Program Project	June	1
NIA	Health Behaviors and Aging: Behavioral Geriatrics Research	June	1
NIA	NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	June	1
NIA	NIAID/NIADDK/NICHHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	June	1
NIA	Complementary Training Awards for Research on Aging	June	1

**NIADDK**

NIADDK	Disease Mechanisms in Immunologic Renal Disease	June	1
NIADDK	NINCDs/NIAID/NICHHD/NIGMS/NEI/NIEHS/NIA/NIAAAA/NIMH Biological Mechanisms of Omega-3 Fatty Acids in Health and Disease States	June	1
NIADDK	Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	June	1
NIADDK	Kidney and Urological Research Centers (Letter of intent - January 15)	July	15

**NIAID**

NIAID	Minority Research Enhancement Program	Open	
NIAID	Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis) Career Development	June	1
	Physician Scientist	June	1
	Clinical Investigator	June	1
	Postdoctoral Fellow	June	1
NIAID	Immune System - Program Project Grants (Letter of intent - March 15)	June	15
	Center Grants (Letter of intent - June 15)	September	15
NIAID	Asthma and Allergic Disease Centers (Letter of intent - June 15)	September	15

**NICHHD**

NICHHD	Trophectoderm/Blastula Development	February	18
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**NIDR**

NIDR	Small Grant Program	Open	
NIDR	Minority Research Supplement Program	March	1
NIDR	Large Grant Support Program	June	1
NIDR	Research Centers in Oral Biology	December	1

**NIEHS**

NIEHS	Non-Mammalian Species in Toxicological Testing	February	15
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**NIGMS**

NIGMS	Cellular and Molecular Basis of Disease Research	June	1
NIGMS	Physiology and Biomedical Engineering	June	1
NIGMS	Genetic Research	June	1
NIGMS	Pharmacological Sciences	June	1

**NINCDS**

NINCDS	86-01, Closed Loop Control of Functional Neuro-muscular Stimulation	February	10
NINCDS	Clinical Investigator Development Award	June	1
NINCDS	Multidisciplinary Research Centers for the Study of Neuro-Genetic Disorders of Infancy and Childhood (P50)	June	1
NINCDS	Seizures and Sleep	June	1

**NIOSH**

NIOSH	Research and Demonstrations Relating to Occupational Safety and Health:		
	Special Emphasis Research Career Award	June	1
	Small Grant Program	June	1
	Research Grants	June	1
	Demonstration Grants	June	1
	Program Project Grants	June	1

**NLM**

NLM	Investigator-Initiated Research Grants/New Investigator Research Awards	June	1
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**Division of Research Resources**

DRR	Biomedical Research Support Shared Instrumentation Grants	February	15
DRR	Small Grants Program for Pilot Projects - Biomedical Research Technology Program	June	1

**Alcohol, Drug Abuse, and Mental Health**

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, New	June	1
ADAMHA, Institutional Training Grants, NRSA	June	1
ADAMHA, Research Scientist Development Award	June	1
ADAMHA, Research Scientist Award	June	1
NIAAA, Research on Children of Alcoholics	June	1
NIAAA, Alcohol Resource Center Grants	June	1
NIAAA, Alcohol Research Grants	June	1
NIAAA, New Investigator Research Awards	June	1
NIAAA, Research Grants on Alcohol-Related Performance Effects and Traumatic Injury	June	1

NIAAA/NIDA/NIMH, Institutional NRSA Training	June	1
NIDA/NIAAA, Community Prevention Research in Alcohol and Drug Abuse	June	1
NIDA, Drug Abuse Prevention Research	June	1
NIMH, 86-12		
Clinical Training Grants for Mental Health Services to the Chronically Mentally Ill,	February	16
Children and Youth with Serious Mental Disorders,	February	16
for the Development of Minority and Disadvantaged Students	February	16
NIMH, Research Support Programs	June	1
Research Reimbursement Issues in Mental Health Services Delivery	March	1
Small Grant Program (with NIAAA and NIDA)	Open	
Grants for Mental Health Service System Research	June	1
Geriatric Mental Health Academic Awards	June	1
Preventive Intervention Research Centers (PIRC)	June	1
Rape Center	June	1
Prevention Research Branch	June	1
New Investigator Research Award (NIRA) in Prevention (with NIAAA and NIDA)	June	1
Clinical Research Centers on Psychopathology of the Elderly	June	1
Clinical Investigator Award	June	1
Physician Scientist Award	June	1
Autism and Related Behavioral Disorders (with NINCDS)	June	1
Studies on Obesity (with NIH Institutes and NIDA)	June	1
Support for Child and Adolescent Mental Health Research and Research Training	June	1
Research on Mental Illness in Nursing Homes	June	1
AA-85-02, Research Grants on the Prevention of Alcohol, Drug Abuse, and Mental Health (ADM) Disorders at the Worksite (with NIAAA and NIDA)	June	1
Service System and Economic Research Programs	June	1
MH-86-03, Assessment of Mental Health Problems in Disaster Victims	June	1
MH-86-05, Prevention Research on Mutual Support Approaches with Bereaved Populations	June	1
MH-86-07, Research on Family Stress and the Care of Alzheimer's Disease Victims	June	1
MH-84-01, Research Support Programs: Neurosciences, Behavioral Sciences, Epidemiologic, Clinical Assessment and Etiological, Treatment, Prevention and Service Research		
New Regular Research Grants	June	1
Support for Child and Adolescent Mental Health Research and Research Training: Research Grants	June	1
Research Grants Program	June	1
Antidepressant Drugs in the Treatment of Anxiety Disorders	June	1
Clinical Research Centers on Psychopathology of the Elderly	June	1
Anti-Social and Violent Behavior	June	1
MH-86-06, Research on Method for Studying Mental Health Service Systems	June	1

#### Food and Drug Administration

FDA-OP-86-1, Clinical Studies of Safety and Effectiveness of Orphan Products (Letter of intent - February 10)	March	11
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## Office of Population Affairs

Opportunities for Research on Adolescent Family Life	June	1
Opportunities for Research in Family Planning Service Delivery Improvement	June	1

## Health Resources and Services Administration

Dental Residency and Advanced Education	February	18
Nurse Anesthetist Traineeship and Nurse Traineeship Grants	February	24
National Research Service Awards - Institutional Grants	June	1

## National Center for Health Services Research

Conference Grants (Preliminary submission required prior to formal application)	Open	
Grants for Health Services Dissertation Research	March	14
Extramural Research	June	1

## Department of Education

Educational Research - Unsolicited Proposals	July	31
Special Projects and Demonstration for Vocational Rehabilitation	February	13
Business & International Education Program	February	18
Research in Education of Handicapped Student-Initiated Research Projects	March	14
National Institute for Handicapped Research Innovative Grants	until July	1
Office of Postsecondary Education International Research and Studies Program (Non-competing continuation)	February	21
Cooperative Education Program Non-competing continuation	February	10
Law School Clinical Experience Program	February	28
Office of Elementary and Secondary Education Law Related Education Program	March	7
OSERS- Educational Media Research, Production, Distribution & Training	March	3
Training Personnel for the Education of the Handicapped	March	17
Severely Handicapped Childrens' Innovative Programs	March	21
Fund for the Improvement of Post Secondary Education Preapplications	March	4

## National Science Foundation

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Program	Open	
Teacher Enhancement and Informal Science Education		
Presidential Awards for Excellence in Science and Mathematics Teaching	Open	
Special Research Initiation Awards for New Investigators in Information Science and Technology. (Brochures NSF 81-34 and 81-69). Dr. Charles Brownstein, Division of Information Science and Technology (357-9700).	March	1
U.S.-Federal Republic of Germany Cooperative Science. (Brochure NSF 83-73). Semi-annual deadline for proposals for joint research and seminars. Division of International Programs (357-9700).	March	1
Cooperative Science Activities with Denmark, Iceland, the Netherlands, and Norway. (Brochure NSF 83-73). Division of International Programs (357-9700).	March	1
U.S.-Finland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	March	1
U.S.-Sweden Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	March	1
U.S.-Switzerland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-9700).	March	1
Very Large Scale Integration (VLSI) Fast Turnaround Fabrication Service for Universities	March	1
Materials for Elementary School Mathematics Instruction	March	17
U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for cooperative research projects commencing in 1987; joint seminars, exchange of scientists, and short-term visits. Division of International Programs (357-7554).	March	31
U.S.-United Kingdom Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	April	1
U.S.-Australia Cooperative Science. All proposals for projects beginning any time in 1987. Division of International Programs (357-9558).	April	1
U.S.-France Cooperative Science. (Brochure NSF 83-73). Proposals for cooperative research projects and joint workshops/seminars with requested effective dates in calendar year 1987. Division of International Programs (357-7554).	May	1
U.S.-Argentina Cooperative Science. (Brochure NSF 80-52). Mr. Dimas Chavez, Division of International Programs (357-9563).	May	1
U.S.-Brazil Cooperative Science. (Brochure NSF 80-52). Mr. Dimas Chavez, Division of International Programs (357-9563).	May	1
U.S.-Mexico Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
U.S.-Venezuela Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
U.S.-Latin America and Caribbean Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1

Computer Research Equipment. (Brochure NSF 84-87). Limited to research equipment to support multiple research projects in computer science or computer engineering at graduate institutions. Dr. John Lehmann, Division of Computer Research (357-7349).	May	1
Programs in Preparing Middle School Science and Mathematics Teachers (202) 375-7069.	May	2
U.S. Antarctic Research. For field work in the 1987-1988 austral summer or in 1988 winter, or for research not involving field work beginning as early as November 1986. Mr. Guy Gurthridge, Division of Polar Programs (357-7817).	June	1
U.S.-Japan Cooperative Science. (Brochure NSF 81-58). Proposals for cooperative research and joint seminar activities are accepted in May each year. Division of International Programs (357-9558).	June	1
U.S.-Italy Cooperative Science. (Brochure NSF 83-73). Proposals for cooperative research projects and joint seminars. Division of International Programs (357-7554).	June	1
U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for short-term visits only to plan scientific research or carry-out short, self-contained research activities. Division of International Programs (357-7554).	June	15
U.S.-Korea Cooperative Science. (Brochure NSF-83-50). Proposals for long-term visits and cooperative research only. Dr. Gerald Edwards, Division of International Programs (357-9537).	July	1
U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). Philippine component only. Proposals for long-term visits, cooperative research, seminars and workshops. Dr. Gerald Edwards, Division of International Programs (357-9537).	July	1
Ship Operations. (Brochure NSF 84-63). "Instructions for Preparation of Proposals, Requesting Support for Oceanographic Facilities." Mr. John McMillan, Division of Ocean Sciences (357-7837).	July	1
Shipboard Technicians. (Brochures NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	July	1
Small Business Innovation Research. Mr. Roland Tibbetts or Mr. Richie Coryell, Division of Industrial Science and Technological Innovation (357-7527).	July	14
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	August	1
Special Research Initiation Awards for New Investigators in Information Science and Technology. (Brochures NSF 81-34 and 81-69). Dr. Charles Brownstein, Division of Information Science and Technology (357-9572).	August	6
Oceanographic Instrumentation. (Brochure NSF 84-63). "Instruction for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	September	1
Shipboard Scientific Support Equipment. (Brochure NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Dr. Richard West, Division of Ocean Sciences (357-7837).	September	1



Arctic Research. Mr. Guy Guthridge, Division of Polar Programs (357-7766).	September	1
U.S.-United Kingdom Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September	15
U.S.-Austria Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-9700).	September	15
U.S.-Federal Republic of Germany Cooperative Science. (Brochure NSF 83-73). Semi-annual deadline for proposals for joint research and seminars. Division of International Programs (357-9700).	September	15
Cooperative Science Activities with Denmark, Iceland, the Netherlands, and Norway. (Brochure NSF 83-73). Division of International Programs.	September	15
U.S.-Finland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September	15
U.S.-Sweden Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September	15
U.S.-Switzerland Cooperative Science. (Brochure NSF 85-42). Dr. Harry Hedges (357-7349) or Dr. Robert Minnick (357-7345), Division of Computer Research.	September	15

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

U.S.-Yugoslavia Cooperative Research. Cooperative research projects. Proposals should not be submitted to NSF (information copies are appreciated) but to FAISECTC in Yugoslavia. Dr. Gerson Sher, Division of International Programs (357-7494).	April	1
U.S.-Eastern European Cooperative Science. (Brochure NSF 81-27). Bulgaria, Hungary, and Romania cooperative research projects, bilateral seminars. Dr. Gerson Sher or Ms. Bonnie Thompson, Division of International Programs (357-7494).	May	1
Doctoral Dissertation Research in Biotic Systems and Resources. (Brochure NSF 83-71). Dr. James Edwards, Division of Biotic Systems and Resources (357-7475).	May	1
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	May	1
Biological Oceanography, Chemical Oceanography, Marine Geology and Geophysics, Physical Oceanography. Dr. Robert Wall, Division of Ocean Sciences (357-7924).	June	1
Ocean Drilling Program, U.S. Science. Dr. Garrett Brass, Division of Ocean Sciences (357-7924).	June	1
Ecology. (Brochure NSF 84-68). Dr. Patrick Flanagan, Division of Biotic Systems and Resources (357-9734).	June	16
Ecosystem Studies. (Brochure NSF 84-68). Dr. James Gosz, Division of Biotic Systems and Resources (357-9596).	June	16
Population Biology and Physiological Ecology. (Brochure NSF 84-68). Dr. James Collins, Division of Biotic Systems and Resources (357-9728).	June	16
Systematic Biology. (Brochure NSF 84-68). Dr. James Rodman, Division of Biotic Systems and Resources (357-9588).	June	16
Cell Biology. (Brochure NSF 85-11). Dr. Arnold Kaplan or Dr. Gertrude Kasebekar, Division of Cellular Biosciences (357-7474).	July	1

Cellular Physiology. (Brochure NSF 85-11). Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (357-7377).	July	1
Developmental Biology. (Brochure NSF 85-11). Dr. Joseph Mascarenhas, Division of Cellular Biosciences (357-7989).	July	1
Eukaryotic Genetics. (Brochure NSF 85-11). Dr. DeLill Nasser, Division of Cellular Biosciences (357-0112).	July	1
Regulatory Biology. (Brochure NSF 85-11). Dr. Lewis Greenwald or Dr. Elvira Doman, Division of Cellular Biosciences (357-7975).	July	1
Social and Developmental Psychology. (Brochure NSF 84-72). Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (357-9485).	July	1
Molecular and Cellular Neurobiology. (Brochure NSF 84-72). Dr. Stephen Morris, Division of Behavioral and Neural Sciences (357-7471).	July	15
Psychobiology. (Brochure NSF 83-57). Dr. Fred Stollnitz or Kathie Olsen, Division of Behavioral and Neural Sciences (357-7949).	July	15
Developmental Neuroscience. (Brochure NSF 84-72). Dr. Frank Collins, Division of Behavioral and Neural Sciences (357-7042).	July	15
Integrative Neural Systems. (Brochure NSF 84-72). Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (357-7040).	July	15
Sensory Physiology and Perception. (Brochure NSF 84-72). Dr. Carol Welt, Division of Behavioral and Neural Sciences (357-7428).	July	15
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	August	1
Linguistics. (Brochure NSF 84-72). Dr. Paul Chapin, Division of Behavioral and Neural Sciences (357-7696).		
Memory and Cognitive Processes. (Brochure NSF 84-72). Dr. Joseph Young, Division of Behavioral and Neural Sciences (357-9898).	August	1
Anthropology. (Brochure NSF 84-72). Dr. John Yellen or Dr. Stuart Plattner, Division of Behavioral and Neural Sciences (357-7804).	August	1
Decision and Management Science. Dr Robert Thrall (357-7569) or Dr. Vincent Covello (357-7417), Division of Social and Economic Science.	August	15
Economics. Dr. James Blackman, Dr. Daniel Newlon or Dr. Lynn Pollnow, Division of Social and Economic Science (357-9674).	August	15
Geography and Regional Science. Dr. Ronald Abler, Division of Social and Economic Science (357-7326).	August	15
History and Philosophy of Science. Dr. Ronald Overmann or Ms. Dorothy Greene, Division of Social and Economic Science (357-7913).	August	15
Science in Developing Countries. Sub-Saharan Africa: Dr. Osman Shinaishin (357-9550); North Africa and Turkey: Mr. Francis Field (357-9402); South and West Asia: Dr. Osman Shinaishin (357-9402); East Asia: Dr. Gordon Hiebert (357-9537); and Latin America and Caribbean: Ms. Christine French (357-9563), Division of International Programs.	September	1
U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). Indonesia, Malaysia, Singapore, Thailand. Dr. Gordon Hiebert, Division of International Programs	September	1

## U.S. Department of Agriculture

### Competitive Research Grants Program

#### Plant Science

Biological Nitrogen Fixation

February 17

Genetic Mechanisms for Crop Improvement

March 3

#### Biotechnology

Molecular Biology (Animal)

February 17

Genetic and Molecular Mechanisms Controlling  
Responses to Physical and Biological Stress

February 24

#### Animal Science

Reproductive Physiology

February 10

Brucellosis

February 17

Insect Pest Science

February 24

Alcohol Fuels

February 10

Soybean

Various

### Cooperative State Research Service - Special Research Grants Program

Animal Health Research

March 10

Aquaculture Research

March 19

## Department of Commerce

National Bureau of Standards; Center for Manufacturing  
Engineering, Automated Manufacturing Research Facility  
(AMRF) Research Grants Program

Open

## Department of Defense

Strategic Defense Initiative Innovative Science and  
Technology Office

Open

U.S. Air Force

University Resident Research Program

Open

## Department of Energy

Office of Energy Research

Special Research Grants Programs

Open

(For FY1986 funding - deadline is April 15)

## Department of Interior

U.S. Geological Survey

Water Resources Research Grant Program

February 28

National Earthquake Hazards Reduction Program  
for Fiscal Year 1987

March 6

## Department of Justice

Office of Juvenile Justice and Delinquency Prevention  
Research and Program Development Programs

Open

National Institute of Justice

Fellowships

Visiting Fellowships	March	14
Graduate Research Fellowships	March	14
Summer Research Fellowships	April	2
The Serious Offender		
Violent Criminal Behavior	March	19
Offender Classification and Prediction of Criminal Behavior	March	26
Drugs, Alcohol and Crime	April	2
Crime Control Theory and Policy	April	9
Victims of Crime	March	28
Crime Prevention	May	16
Criminal Justice System		
Police Response to Spouse Assault	March	4
The System of Criminal Justice	March	14
Police Efficiency and Effectiveness	April	18
Corrections	April	25
Court Effectiveness	May	2

Environmental Protection Agency

Environmental Biology	Open*
Environmental Health	Open*
Environmental Engineering	Open*
Environmental Air/Water Chemistry and Physics	Open*
Special Research Grants and Student Fellowship Program	Open*
*Suggested closing date - February 15 and August 15	

National Endowment for the Arts

U.S./French Exchange Program: Deadline varies with Discipline	Various
Museum	
Special Projects	Open
Design Exploration/Research	April 10
Arts Management Fellowship Program	April 18

National Endowment for the Humanities

Division of Education Programs	
Central Disciplines in Undergraduate Education	April 1
Exemplary Projects in Undergraduate and Graduate Education	April 1
Humanities Programs for Nontraditional Learners	April 1
Improving the Preparation of Teachers of Humanities	Contact ORTTA
Division of Fellowships & Seminars	
Independent Study and Research	June 1
College Teachers	June 1
Constitutional Fellowships	June 1
Division of General Programs	
Media	March 21
Humanities Programs for Adults	March 21
Humanities Projects in Libraries	March 21

Museum & Historical Organizations	June	13
Youth Projects	June	13
(Preliminary Narrative - April 1986)		
Division of Research Programs		
Publication Subvention	April	1
Editions	June	1
Translations	June	1
Office of Challenge Grants	May	1
Office of Preservation	June	1
<b>National Gallery of Art</b>		
Center for Advanced Study in the Visual Arts		
Visiting Senior Fellowships and Associates		
(For 9/16/86-2/28/87)	March	21
<b>National Research Council</b>		
Research Associateship Postdoctoral Awards	April	15
<b>National Aeronautics &amp; Space Administration</b>		
Airborne Astronomy Program	Open	
<b>U.S. Information Agency</b>		
Bureau of Educational and Cultural Affairs		
University Affiliations Program	February	18
<b>NONFEDERAL</b>		
American Cancer Society		
Grants in Support of Personnel for Research	March	1
Research and Clinical Investigator Grants	April	1
American Chemical Society - Petroleum Research Fund		
Grants-in-Aid	No	Deadline
American Council of Learned Societies		
Mellon Chinese Summer Language Grants	February	15
American Numismatic Society		
1986 Grants for Summer Study in Numismatics	March	1
American Philosophical Society		
Grants-in-Aid	Various--	Contact ORTTA
American Veterinary Medicine Foundation	August	1
Arthritis Foundation - Minnesota Affiliate	February	15
Bosch Foundation Fellowship Program	No	Deadline
Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)	No	Deadline
Carnegie Corporation - Education Grants	No	Deadline
Center for Field Research (Earthwatch)		
Latin America Field Research Grants	No	Deadline
Edna McConnell Clark Foundation	No	Deadline
Engineering Foundation (Pre-proposals)	No	Deadline

Exxon Education Foundation - Grants for Curriculum and Teaching and Management of Higher Education Programs	Open	
Ford Foundation Fellowship Programs in Combined Soviet/East European & International Security Studies		
Graduate and Post Graduate Support	March	1
Gas Research Foundation		
Telephone contact or letter of inquiry prior to submission of formal proposal	No Deadline	
German Marshall Fund		
Short-Term Travel Awards	No Deadline	
GTE Foundation Lectureship Program		
Science, Technology, and Human Values 1986-87	March	1
International Foundation of Employee Benefit Plans		
Postdoctoral Grants-in-Aid		Open
International Research and Exchanges Board		
Specialized Language Training	March	15
Fellowships for Comparative Studies Including the USSR and Eastern Europe	March	15
Juvenile Diabetes Foundation		
Research Grant Applications	March	1
Kellogg Foundation		
Expanding Opportunities for Adult Continuing Education	Continuous	
Health Promotion and Disease Prevention Programs	Continuous	
Coordinated, Cost-Effective Health Service Programs	Continuous	
Improving Human Well Being Through Productive Agriculture	Continuous	
Fostering Leadership Capacity	Continuous	
Leukemia Society of America		
Short-term Scientific Exchange Award	April	1
President's Research Development	April	1
MacArthur Foundation		
International Security Program	Open	
March of Dimes Birth Defects Foundation		
Basil O'Connor Starter Research Grants	Continuous	
Mathers Charitable Foundation	Continuous	
Metropolitan Life Foundation	No Deadline	
Minnesota Humanities Commission		
Small Grant	No Deadline	
Minnesota Medical Foundation	March	30
National Geographic Society		
Grants-in-Aid	No Deadline	
Research Corporation		
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline	
Rockefeller Foundation		
Research on the Genetic Engineering of Rice	Open	
Damon Runyun-Walter Winchell		
Cancer Fund		
Postdoctoral Research Fellowships for Basic Scientists	March	15
Sigma XI -		
Grants-in-Aid of Research	May	1
Alfred P. Sloan Foundation	No Deadline	
Solar Energy Resources Institute		
University Participation Program for Solar Thermal Research	February	20
Technicon Instruments Corporation		
Grants for Research in Biomedical and Industrial Instrumentation - Pre-proposals	No Deadline	

Thrasher Research Fund	
Grants in Nutrition, Infectious Diseases, Health Promotion	No Deadline
University Genetics Company (UGEN)	No Deadline
Veterans of Foreign Wars of the United States Ladies Auxiliary - Cancer Fellowships Grants	February 15
Villers Foundation	No Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

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# ORA RDC Newsletter

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## Impact of Gramm Rudman Act

While definitive answers on the effect of the Gramm Rudman Hollings Budget Deficit Reduction Act on University of Minnesota research activity for fiscal year 1986 are not available, the ORTTA is beginning to receive notification from some agencies of direct cost award level reductions. Several award notices from the NIH have been received which indicate reductions ranging from 3.5 percent to 12 percent. Because of the uncertainty about the impact of these cuts, all principal investigators with existing federal grants should anticipate some decrease in the level of their awards. At a minimum, a reduction of 4.3 percent, which is the proposed level of across-the-board cuts in domestic programs, can be expected.

There is also a major effort underway at the federal level to place limitations on the amount of indirect costs that sponsoring agencies pay to universities. While this concept has been proposed in other years, it is receiving more serious consideration now, in light of the Gramm Rudman legislation.

Staff in ORTTA will continue to monitor the progress of budget reduction activity and will provide updated information in future editions of this newsletter.

## Publish or Patent?

Of prime importance to the University of Minnesota is the publication of scientific results in journals. However, researchers sometimes think that they must choose between patenting or publishing the results of their research. While at times there can be a conflict as to timing, in most cases both can be done without causing undue delays. First, patenting should never endanger publication, even in those journals such as the New England Journal of Medicine which will not accept articles first published elsewhere. When an application is filed, the patent is not issued (= published) for about two or three years. The fastest imaginable scenario, if we file an application that is issuable on first examination by the U.S. Patent and Trademark Office, would take about ten (10) months to issuance. Second, publishing can affect patent rights. In the United States, you can publish first and then file a patent application within a year of publication. Most of the world, however, requires "absolute novelty". Even one day after publication is too late to file. Most countries



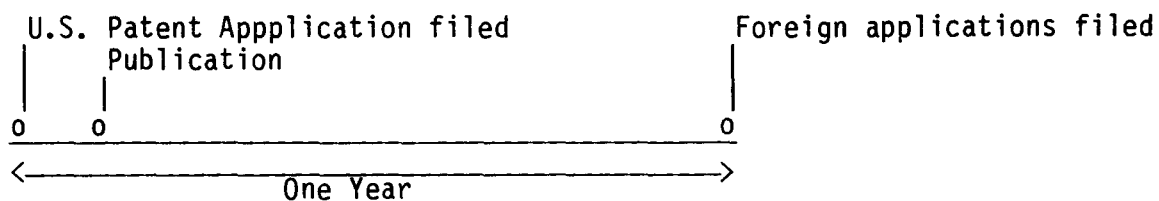
honor the filing date in another country, so if you file in the U.S. and publish the next day, you may have one year to file in absolute novelty countries.

There are two questions to consider: (1) What kind of publication interferes with patent rights? and (2) What is the effect of not being able to file in foreign countries? To bar patenting, a publication must enable anyone skilled in the art to practice the invention. There is no hard and fast rule about what is enabling. One sentence can be enough. Sometimes very detailed methods and diagrams are necessary to enable. In the case of cell lines, there may be no enablement until the cells are deposited in a culture collection such as ATCC. An abstract can be enabling. The date of publication is that date on which members of the public, able to understand and use the contents, have access to the information in some kind of permanent form. Submission to a journal or a funding agency is not publication but is considered a confidential communication. (Note: Once a project is funded by a federal agency, the contents of the proposal may be available to the public through the Freedom of Information Act.) A slide, shown briefly, or a poster session may not be publication, although there is always a possibility that someone may make a permanent copy of the information and circulate it. Also some special rules on symposia exist in some of the European countries. A thesis is considered published when it is catalogued and put on the library shelves.

The final question to ask is whether prior publication with loss of foreign rights is important. Patents are all national in scope and a U.S. patent carries no weight in a foreign country. Since the pharmaceutical market, for example, is worldwide and foreign countries have much less stringent drug clearance procedures than the U.S., a drug can be on the market years sooner overseas. Chances are that a new drug can never be licensed if foreign rights are not secured by patenting before publishing. If the patent covers a unique tangible product that cannot be duplicated, such as a cell line, the usual laws of misappropriation may give as much protection as a patent. Patents can be filed on inventions of different kinds of subject matter: machines, chemicals, manufacturing processes, new uses of old chemicals, methods of treating diseases, etc. Many of the most valuable U.S. inventions, such as new uses for an old compound, cannot be patented overseas because they are unpatentable subject matter in foreign countries. Strangely enough, most foreign countries also do not allow patents for medicines, medical devices or diagnostic tests that are used within the human body.

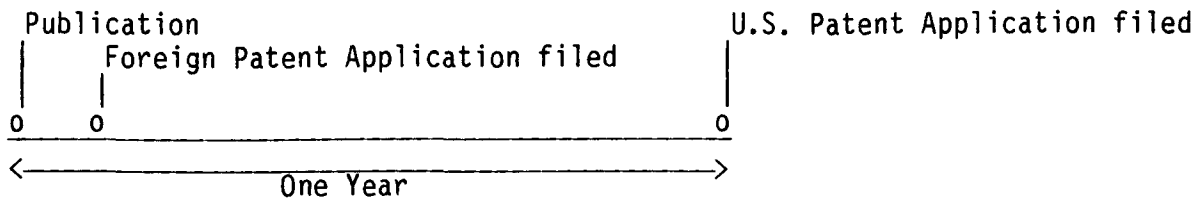
A few examples may make this information easier to understand.

Case I, a new machine:



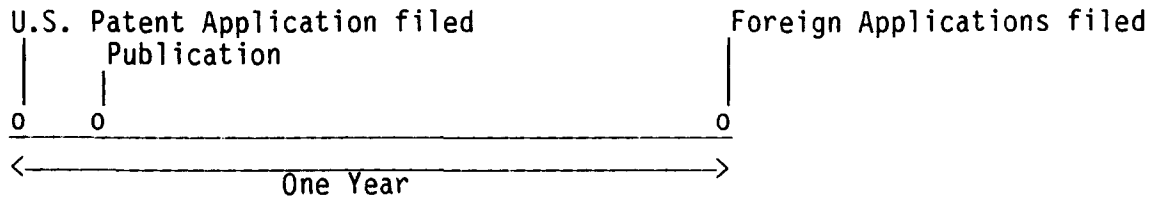
Result: U.S. and foreign patents

Case II, a new machine:



Result: U.S. patent, but no foreign patents.

Case III, an artificial heart:



Result: U.S. patent, but no foreign patents (because the subject matter is unpatentable, compare to Case I).

As you can see, the timing of publication and patenting is very complex and involves not just calendar dates but also the subject matter of the invention. Please seek guidance from the Office of Patents and Licensing before making a decision yourself as to whether you have published your invention and therefore should forget about patenting. Staff in the Office of Patents and Licensing will be able to provide more information that is on point to your situation.

### New Procedures for Animal Use Certification

In response to the new guidelines for the care and use of laboratory animals implemented January 1, 1986 by many sponsoring agencies, internal procedures regarding animal use certification have been changed. A new Animal Usage Form BA22 has been developed and is now required for all projects involving the use of warm-blooded animals. This Form BA22 must be submitted to ORTTA with the proposal and BA23 Form. Do not send it directly to Research Animal Resources (RAR). ORTTA will forward the BA22 Form to RAR who will be responsible for providing the appropriate certifications to the sponsoring agency with a copy to the principal investigator. For those agencies requiring an assurance form with the submission of the proposal, ORTTA will provide a pending review letter for submission with the application. RAR will then submit a certification statement within 60 days. Since some sponsoring agencies will not review an application until the institutional review and approval is received, it is to the principal investigator's advantage to comply with this procedure. For further information, refer to the January 1986 ORTTA Newsletter. Questions concerning this procedure should be directed to Dr. Patrick Manning, 376-5097.

### New Fringe Benefit Rates

The fringe benefit rates shown below will be charged against salaries during the period January 1, 1986 through June 30, 1986. The estimated rates are to

be used for budgeting beyond June 1986. Questions regarding fringe benefit rate development can be directed to Kimberly Phan in Accounting Records and Services at 373-1842.

	Academic %	Civil Service %
Health Plan	5.1691	8.6698
Unemployment Compensation	.0216	.1875
Worker's Compensation	.0000	.9154
Group Life and Disability	.8485	.2985
Retirement	11.7750	4.0281
F.I.C.A.	6.6654	7.1786
TOTAL	24.4796	21.2779

Estimated rates to be used for budgeting beyond 6/30/86	25.5000	22.0000
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Several factors have contributed to the increase in the fringe benefit rate. These increases were not anticipated and therefore were not reflected in the "estimated rates to be used for budgeting beyond 12/31/85" published in the October 1985 ORTTA Newsletter. These factors are listed below:

- Additional costs associated with the extension to September 30, 1986 of mental health benefits under the Blue Cross/Blue Shield major medical plan.
- An increase in the FICA contribution rate from 7.05% to 7.15% as of January 1, 1986, and the increase in the maximum contributing salary from \$39,600 to \$42,000.
- A carryover of income disability costs (Group Life and Disability category) from prior years due to increased usage.

#### Revised Indirect Cost Agreement

ORTTA has recently received a revised indirect cost agreement from our cognizant audit agency, the Department of Health and Human Services. The date of the agreement is January 13, 1986. The only change from the original agreement dated October 23, 1985 is that the provisional rate for 7/1/86 - 6/30/87 is reduced to 42% for on-campus research. Please refer to the December 1985 Newsletter for a complete listing of the indirect cost rates.

#### New Staff Joins ORTTA

Ms. Mary Dockter has joined the ORTTA, Grants and Contracts Division, as a Senior Grant Administrator. Ms. Dockter has been employed by the University of Minnesota since August 1983, most recently as an Accounting Supervisor in the School of Nursing. She can be contacted at 373-5926.

## Change in NIH Application Receipt Dates

The notice of new application receipt dates, published in the NIH Guide for Grants and Contracts on September 13 and November 8, 1985, and reproduced in the November 1985 ORTTA Newsletter, did not include a date for supplemental applications for program project and center grants. Supplemental applications for such grants should be submitted for the February 1, June 1, and October 1 receipt dates.

Supplemental applications will be accepted for the March 1, 1986 receipt date in view of the ambiguity in the original notices. It would be helpful, however, if applicants who can would submit as early as possible.

## NSF Publication Available

The NSF publication, Guide to Programs, Fiscal Year 1986 has recently been published. Single copies of this guide can be obtained from the Forms and Publications Office, NSF, Washington, DC 20550 (202)357-7861.

## Law and Social Sciences Program (NSF)

The Program for Law and Social Sciences at the National Science Foundation (NSF) supports social scientific studies of law, legal process, and law-like systems of rules. These can include, but are not limited to, research designed to enhance the scientific understanding of the impact of law; human behavior and interaction as these relate to law; the dynamics of legal decisionmaking; and the nature, sources, and consequences of variations and changes in legal institutions. The primary consideration is that the research shows promise of advancing a scientific understanding of law and legal processes. Within this framework, the Program has an "open window" for diverse theoretical perspectives, methods, and contexts for study.

The review process for the Law and Social Sciences Program takes six to nine months. The next target dates for the submission of proposals are August 15, for proposals to be funded any time after January-February 1986, and January 1, for proposals to be funded as early as July 1986. For further information contact Mary Bergaas at 373-2784.

## DOD Launches University Research Initiative

The Department of Defense has launched a major new funding initiative that will pump \$100 million into universities in 1986 alone to support graduate training, facilities improvement and instrumentation in specific scientific areas of interest to the Army, Navy, Air Force and the Defense Advanced Research Projects Agency (DARPA).

The University Research Initiative (URI) program will operate somewhat differently within different agencies. The Army and DARPA will incorporate support for instrumentation, fellowships and other activities in their funding of single, large research programs.

Both agencies will support establishment of a number of "centers of excellence" at universities. Each center will emphasize a specific area of scientific

endeavor, will be required to establish a program for providing graduate fellowships and will be expected to acquire or build state-of-the-art equipment.

The Air Force and Navy will pursue URI through both the center approach and through existing fellowship and other programs.

For copies of the Broad Agency Announcement for the ONR, DARPA, and Air Force portions of the programs, contact ORTTA at 376-7353.

#### SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support.

THE ORTTA CONTACT NUMBERS FOR DEADLINE/PROGRAM INFORMATION ARE 376-7358 OR 376-7689.

#### FEDERAL

##### National Institutes of Health

##### NIH

NIH	Fogarty International Center for Advanced Study in Health Sciences - various programs		Various
NIH	Fogarty International Center Senior International Fellowships	May	10
NIH	National Research Service Awards for Senior Fellows	May	10
NIH	National Research Service Awards for Individual Postdoctoral Fellows	May	10
NIH	National Research Service Award Institutional Grants	May	10
NIH	Institutional Training Programs	May	10
NIH	Research Grants, New	June	1
NIH	New Investigator Awards	June	1
NIH	Research Career Development Awards	June	1
NIH	Individual Postdoctoral Fellowships	June	1
NIH	Support of Scientific Meetings	June	1
NIH	Research Grants, Renewals	July	1

##### NCI

NCI	Quality of Survival for Childhood Cancer Patients (Letter of intent January 15)	March	15
NCI	Prevention Clinical Trials: Cooperative Agreements	April	1
NCI	Prevention Clinical Trials Utilizing Intermediate Endpoints and Their Modulation by Chemopreventive Agents	April	11

NCI	86-CA-08 Studies on the Etiology of Neoplasia in Poikilothermic, Aquatic Animals: Finfish and Shellfish (NIEHS)	May	1
NCI	Surgical Oncology Research Training Grant	May	10
NCI	Outstanding Investigators Grant	May	15
NCI	Cancer Education Program	June	1
NCI	Comprehensive Minority Biomedical Program - Minority Satellite Supplement	June	1
NCI	Comprehensive Minority Biomedical Program - Minority Investigator Supplement	June	1
NCI	Multinuclear Magnetic Resonance Imaging and Spectroscopy	June	1
NCI	Studies of Dose Fractionation and Volume Late Effects in Normal Tissues Using Animal Models	June	1
NCI	Studies on Feline Retroviruses	June	1
NCI	Small Grants Program for Epidemiology	June	1
NCI	Micronutrients on Prevention of Experimental Mammary Cancer	June	1
NCI	Mechanisms of Site Specific Metastasis in Prostate Cancer	June	1
NCI	Characterization of Multidrug Resistant Human and Other Mammalian Tumor Cell Lines	June	1
NCI	Biological Role of Exocyclic Nucleic Acid Derivatives in Carcinogenesis	June	1
NCI	86-CA-07 The Transformation Mechanisms of Human Polyomaviruses	July	15
<b>NEI</b>			
NEI	Inherited Retinal Degenerations in Animal Mutants	April	1
NEI	Collaborative Ocular Melanoma Study: Cooperating Clinics	April	1
NEI	Small Grants Program for Pilot Projects	June	1
NEI	NHLBI/NIAID/NIAMDD/NICHHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
<b>NHLBI</b>			
NHLBI	Biological Mechanisms of Nutrient Effects of Blood Pressure	April	1
NHLBI	Development and Differentiation of Airway Epithelium (Letter of intent - February 15)	April	1
NHLBI	Preventive Cardiology Academic Award	April	1
NHLBI	Hypo- and Hyperbaric Research Support Facilities (Letter of intent - February 1)	April	1
NHLBI	Mechanisms Responsible for Age-Related Increase in Blood Pressure (NIA)	April	16
NHLBI	86-HL-13-H Model Systems for Blood Cholesterol Screening	April	16
NHLBI	86-HL-8-P, Research in Nutrition and Cardiovascular Disease (Letter of intent - February 15)	April	18
NHLBI	86-HL-16-P Clinical Centers for Trials of Hypertension Prevention	April	21
NHLBI	86-HL-18-P Coordinating Center for Trials of Hypertension Prevention	April	21

NHLBI	86-HL-17-P Clinical Centers for a Trial of Dietary Intervention in Children with Elevated Low Density Lipoprotein Levels to Assess Feasibility, Acceptability, Efficacy and Safety	April	21
NHLBI	86-HL-19-P Coordinating Centers for a Trial of Dietary Intervention in Children with Elevated Low Density Lipoprotein Levels to Assess Feasibility, Acceptability, Efficacy and Safety	April	21
NHLBI	86-HL-10-B Prevalence and Consequences of Hepatitis Delta Infection In Hemophilia (NIAID)	May	1
NHLBI	Research Training and Development Area: National Research Service Award Programs		
	Institutional Research Training Grant Award	May	10
	Individual Postdoctoral Fellowship Award	May	10
	Senior Research Fellowship Award	May	10
	Research Career Development Programs		
	Research Career Development Award	June	1
	Clinical Investigator Award	June	1
	Physician Scientist Award	June	1
	Special Emphasis Research Career Award: Diabetes Mellitus	June	1
NHLBI	Research Career Development Award: Basic Science Related to the Respiratory System	June	1
NHLBI	Demonstration and Education Research in Cystic Fibrosis	June	1
NHLBI	Cardiovascular Studies in Animals	June	1
NHLBI	Blood Cell Surface Antigens Related to Disease	June	1
NHLBI	86-HL-07-B, Comprehensive Sickle Cell Centers	September	15

#### NIA

NIA	86-AG-01, Mechanisms Responsible for Age-Related Increase in Blood Pressure (NHLBI)	April	16
NIA	Aging and Visual Perception		
	Postdoctoral Fellow	June	1
	Program Project	June	1
NIA	Health Behaviors and Aging: Behavioral Geriatrics Research	June	1
NIA	NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	June	1
NIA	NIAID/NIADDK/NICHHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	June	1
NIA	Complementary Training Awards for Research on Aging	June	1

#### NIADDKD

NIADDKD	Disease Mechanisms in Immunologic Renal Disease	June	1
NIADDKD	NINCDS/NIAID/NICHHD/NIGMS/NEI/NIEHS/NIA/NIAAA/NIMH Biological Mechanisms of Omega-3 Fatty Acids in Health and Disease States	June	1
NIADDKD	Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	June	1
NIADDKD	86-AM-01 Digestive Diseases Core Centers	June	16
NIADDKD	Kidney and Urological Research Centers (Letter of intent - January 15)	July	15

**NIAID**

NIAID	Minority Research Enhancement Program	Open	
NIAID	Prevalence and Consequences of Hepatitis Delta Infection in Hemophilia (NHLBI)	May	1
NIAID	Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginitis (Vaginitis)		
	Career Development	June	1
	Physician Scientist	June	1
	Clinical Investigator	June	1
	Postdoctoral Fellow	June	1
NIAID	Program Projects on the Biology of Immune System - Program Project Grants	June	15
	(Letter of intent - March 15)		
	Center Grants	September	15
	(Letter of intent - June 15)		
NIAID	Asthma and Allergic Diseases Centers	September	15
	(Letter of intent - June 15)		

**NICHD**

NICHD	86-HD-02 The Pathogenesis of Sudden Infant Death Syndrome	May	23
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**NIDR**

NIDR	Small Grant Program	Open	
NIDR	Large Grant Support Program	June	1
NIDR	Minority Research Supplement Program	July	1
NIDR	Research Centers in Oral Biology	December	1

**NIEHS**

NIEHS	Studies on the Etiology of Neoplasia in Poikilothermic, Aquatic Animals: Finfish and Shellfish (NCI)	May	1
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**NIGMS**

NIGMS	Cellular and Molecular Basis of Disease Research	June	1
NIGMS	Physiology and Biomedical Engineering	June	1
NIGMS	Genetic Research	June	1
NIGMS	Pharmacological Sciences	June	1

**NINCDS**

NINCDS	Clinical Investigator Development Award	June	1
NINCDS	Multidisciplinary Research Centers for the Study of Neuro-Genetic Disorders of Infancy and Childhood (P50)	June	1
NINCDS	Research Grants on the Relationship Between Seizures and Sleep	June	1



## NIOSH

NIOSH	Research and Demonstrations Relating to Occupational Safety and Health:		
	Special Emphasis Research Career Award	June	1
	Small Grant Program	June	1
	Research Grants	June	1
	Demonstration Grants	June	1
	Program Project Grants	June	1
NIOSH	Engineering Control Systems Research (CDC)		
	New Applications	June	1
	Career Development, Small Grants, and Competing Renewals	July	1

## NLM

NLM	Investigator-Initiated Research Grants/New Investigator Research Awards	June	1
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## Division of Research Resources

DRR	Small Grants Program for Pilot Projects - Biomedical Research Technology Program	June	1
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## Alcohol, Drug Abuse, and Mental Health

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, New	June	1
ADAMHA, Institutional Training Grants, NRSA	June	1
ADAMHA, Research Scientist Development Award	June	1
ADAMHA, Research Scientist Award	June	1
NIAAA, Research on Children of Alcoholics	June	1
NIAAA, Alcohol Resource Center Grants	June	1
NIAAA, Alcohol Research Grants	June	1
NIAAA, New Investigator Research Awards	June	1
NIAAA, Research Grants on Alcohol-Related Performance Effects and Traumatic Injury	June	1
NIAAA/NIDA/NIMH, Institutional NRSA Training	June	1
NIDA/NIAAA, Community Prevention Research in Alcohol and Drug Abuse	June	1
NIDA, Drug Abuse Prevention Research	June	1
NIMH, Research Support Programs	June	1
Small Grant Program (with NIAAA and NIDA)	Open	
Grants for Mental Health Service System Research	June	1
Geriatric Mental Health Academic Awards	June	1
Preventive Intervention Research Centers (PIRC)	June	1
Rape Center	June	1
Prevention Research Branch	June	1
New Investigator Research Award (NIRA) in Prevention (with NIAAA and NIDA)	June	1
Clinical Research Centers on Psychopathology of the Elderly	June	1
Clinical Investigator Award	June	1
Physician Scientist Award	June	1
Autism and Related Behavioral Disorders (with NINCDS)	June	1
Studies on Obesity (with NIH Institutes and NIDA)	June	1

Support for Child and Adolescent Mental Health Research and Research Training	June	1
Research on Mental Illness in Nursing Homes	June	1
AA-85-02, Research Grants on the Prevention of Alcohol, Drug Abuse, and Mental Health (ADM) Disorders at the Worksite (with NIAAA and NIDA)	June	1
Service System and Economic Research Programs	June	1
MH-86-03, Assessment of Mental Health Problems in Disaster Victims	June	1
MH-86-05, Prevention Research on Mutual Support Approaches with Bereaved Populations	June	1
MH-86-07, Research on Family Stress and the Care of Alzheimer's Disease Victims	June	1
MH-84-01, Research Support Programs: Neurosciences, Behavioral Sciences, Epidemiologic, Clinical Assessment and Etiological, Treatment, Prevention and Service Research New Regular Research Grants	June	1
Support for Child and Adolescent Mental Health Research and Research Training: Research Grants	June	1
Research Grants Program	June	1
Antidepressant Drugs in the Treatment of Anxiety Disorders	June	1
Clinical Research Centers on Psychopathology of the Elderly	June	1
Anti-Social and Violent Behavior	June	1
MH-86-06, Research on Method for Studying Mental Health Service Systems	June	1
Research Reimbursement Issues in Mental Health Services Delivery	July	1

#### Food and Drug Administration

FDA-OP-86-1, Clinical Studies of Safety and Effectiveness of Orphan Products (Letter of intent - February 10)	March	11
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#### Office of Population Affairs

Opportunities for Research on Adolescent Family Life	June	1
Opportunities for Research in Family Planning Service Delivery Improvement	June	1

#### Health Resources and Services Administration

National Research Service Awards - Institutional Grants	June	1
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#### National Center for Health Services Research

Conference Grants (Preliminary submission required prior to formal application)	Open	
Grants for Health Services Dissertation Research	March	14
Post doctoral Research Fellowships	March	21
Institutional Research Training Grants	April	1
Extramural Research	June	1

## Department of Education

Educational Research - Unsolicited Proposals	July	31
Research in Education of Handicapped Student-Initiated Research Projects	March	14
National Institute for Handicapped Research Innovative Grants	until July	1
Office of Postsecondary Education OSERS-		
Training Personnel for the Education of the Handicapped	March	17
Severely Handicapped Childrens' Innovative Programs	March	21
Fund for the Improvement of Postsecondary Education Preapplications	March	4
Final Applications	June	4
Office of Bilingual Education and Minority Languages Affairs Bilingual Education Fellowship Program	March	24

## National Science Foundation

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Program	Open	
Teacher Enhancement and Informal Science Education Presidential Awards for Excellence in Science and Mathematics Teaching	Open	
Materials for Elementary School Mathematics Instruction	March	17
U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for cooperative research projects commencing in 1987; joint seminars, exchange of scientists, and short-term visits. Division of International Programs (357-7554).	March	31
U.S.-United Kingdom Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	April	1
U.S.-Australia Cooperative Science. All proposals for projects beginning any time in 1987. Division of International Programs (357-9558).	April	1
U.S.-France Cooperative Science. (Brochure NSF 83-73). Proposals for cooperative research projects and joint workshops/seminars with requested effective dates in calendar year 1987. Division of International Programs (357-7554).	May	1
U.S.-Argentina Cooperative Science. (Brochure NSF 80-52). Mr. Dimas Chavez, Division of International Programs (357-9563).	May	1
U.S.-Brazil Cooperative Science. (Brochure NSF 80-52). Mr. Dimas Chavez, Division of International Programs (357-9563).	May	1

U.S.-Mexico Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
U.S.-Venezuela Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
U.S.-Latin America and Caribbean Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
Computer Research Equipment. (Brochure NSF 84-87). Limited to research equipment to support multiple research projects in computer science or computer engineering at graduate institutions. Dr. John Lehmann, Division of Computer Research (357-7349).	May	1
Programs in Preparing Middle School Science and Mathematics Teachers (202) 375-7069.	May	2
U.S. Antarctic Research. For field work in the 1987-1988 austral summer or in 1988 winter, or for research not involving field work beginning as early as November 1986. Mr. Guy Gurthridge, Division of Polar Programs (357-7817).	June	1
U.S.-Japan Cooperative Science. (Brochure NSF 81-58). Proposals for cooperative research and joint seminar activities are accepted in May each year. Division of International Programs (357-9558).	June	1
U.S.-Italy Cooperative Science. (Brochure NSF 83-73). Proposals for cooperative research projects and joint seminars. Division of International Programs (357-7554).	June	1
U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for short-term visits only to plan scientific research or carry-out short, self-contained research activities. Division of International Programs (357-7554).	June	15
U.S.-Korea Cooperative Science. (Brochure NSF-83-50). Proposals for long-term visits and cooperative research only. Dr. Gerald Edwards, Division of International Programs (357-9537).	July	1
U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). Philippine component only. Proposals for long-term visits, cooperative research, seminars and workshops. Dr. Gerald Edwards, Division of International Programs (357-9537).	July	1
Ship Operations. (Brochure NSF 84-63). "Instructions for Preparation of Proposals, Requesting Support for Oceanographic Facilities." Mr. John McMillan, Division of Ocean Sciences (357-7837).	July	1
Shipboard Technicians. (Brochures NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	July	1
Small Business Innovation Research. Mr. Roland Tibbetts or Mr. Richie Coryell, Division of Industrial Science and Technological Innovation (357-7527).	July	14
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	August	1
Special Research Initiation Awards for New Investigators in Information Science and Technology. (Brochures NSF 81-34 and 81-69). Dr. Charles Brownstein, Division of Information Science and Technology (357-9572).	August	6

Oceanographic Instrumentation. (Brochure NSF 84-63). "Instruction for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	September 1
Shipboard Scientific Support Equipment. (Brochure NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Dr. Richard West, Division of Ocean Sciences (357-7837).	September 1
Arctic Research. Mr. Guy Guthridge, Division of Polar Programs (357-7766).	September 1
U.S.-United Kingdom Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September 15
U.S.-Austria Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-9700).	September 15
U.S.-Federal Republic of Germany Cooperative Science. (Brochure NSF 83-73). Semi-annual deadline for pro- posals for joint research and seminars. Division of International Programs (357-9700).	September 15
Cooperative Science Activities with Denmark, Iceland, the Netherlands, and Norway. (Brochure NSF 83-73). Division of International Programs.	September 15
U.S.-Finland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September 15
U.S.-Sweden Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September 15
U.S.-Switzerland Cooperative Science. (Brochure NSF 85-42). Dr. Harry Hedges (357-7349) or Dr. Robert Minnick (357-7345), Division of Computer Research.	September 15

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

U.S.-Yugoslavia Cooperative Research. Cooperative research projects. Proposals should not be submitted to NSF (infor- mation copies are appreciated) but to FAISECTC in Yugoslavia. Dr. Gerson Sher, Division of International Programs (357-7494).	April 1
U.S.-Eastern European Cooperative Science. (Brochure NSF 81-27). Bulgaria, Hungary, and Romania cooperative research projects, bilateral seminars. Dr. Gerson Sher or Ms. Bonnie Thompson, Division of International Programs (357-7494).	May 1
Doctoral Dissertation Research in Biotic Systems and Resources. (Brochure NSF 83-71). Dr. James Edwards, Division of Biotic Systems and Resources (357-7475).	May 1
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	May 1
Biological Oceanography, Chemical Oceanography, Marine Geology and Geophysics, Physical Oceanography. Dr. Robert Wall, Division of Ocean Sciences (357-7924).	June 1
Ocean Drilling Program, U.S. Science. Dr. Garrett Brass, Division of Ocean Sciences (357-7924).	June 1
Ecology. (Brochure NSF 84-68). Dr. Patrick Flanagan, Division of Biotic Systems and Resources (357-9734).	June 16

Ecosystem Studies. (Brochure NSF 84-68). Dr. James Gosz, Division of Biotic Systems and Resources (357-9596).	June	16
Population Biology and Physiological Ecology. (Brochure NSF 84-68). Dr. James Collins, Division of Biotic Systems and Resources (357-9728).	June	16
Systematic Biology. (Brochure NSF 84-68). Dr. James Rodman, Division of Biotic Systems and Resources (357-9588).	June	16
Cell Biology. (Brochure NSF 85-11). Dr. Arnold Kaplan or Dr. Gertrude Kasebekar, Division of Cellular Biosciences (357-7474).	July	1
Cellular Physiology. (Brochure NSF 85-11). Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (357-7377).	July	1
Developmental Biology. (Brochure NSF 85-11). Dr. Joseph Mascarenhas, Division of Cellular Biosciences (357-7989).	July	1
Eukaryotic Genetics. (Brochure NSF 85-11). Dr. DeLill Nasser, Division of Cellular Biosciences (357-0112).	July	1
Regulatory Biology. (Brochure NSF 85-11). Dr. Lewis Greenwald or Dr. Elvira Doman, Division of Cellular Biosciences (357-7975).	July	1
Social and Developmental Psychology. (Brochure NSF 84-72). Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (357-9485).	July	1
Molecular and Cellular Neurobiology. (Brochure NSF 84-72). Dr. Stephen Morris, Division of Behavioral and Neural Sciences (357-7471).	July	15
Psychobiology. (Brochure NSF 83-57). Dr. Fred Stollnitz or Kathie Olsen, Division of Behavioral and Neural Sciences (357-7949).	July	15
Developmental Neuroscience. (Brochure NSF 84-72). Dr. Frank Collins, Division of Behavioral and Neural Sciences (357-7042).	July	15
Integrative Neural Systems. (Brochure NSF 84-72). Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (357-7040).	July	15
Sensory Physiology and Perception. (Brochure NSF 84-72). Dr. Carol Welt, Division of Behavioral and Neural Sciences (357-7428).	July	15
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	August	1
Linguistics. (Brochure NSF 84-72). Dr. Paul Chapin, Division of Behavioral and Neural Sciences (357-7696).		
Memory and Cognitive Processes. (Brochure NSF 84-72). Dr. Joseph Young, Division of Behavioral and Neural Sciences (357-9898).	August	1
Anthropology. (Brochure NSF 84-72). Dr. John Yellen or Dr. Stuart Plattner, Division of Behavioral and Neural Sciences (357-7804).	August	1
Decision and Management Science. Dr Robert Thrall (357-7569) or Dr. Vincent Covello (357-7417), Division of Social and Economic Science.	August	15
Economics. Dr. James Blackman, Dr. Daniel Newlon or Dr. Lynn Pollnow, Division of Social and Economic Science (357-9674).	August	15
Geography and Regional Science. Dr. Ronald Abler, Division of Social and Economic Science (357-7326).	August	15

History and Philosophy of Science. Dr. Ronald Overmann or Ms. Dorothy Greene, Division of Social and Economic Science (357-7913).	August 15
Law and Social Sciences Program. Felice J. Levine (357-9567)	August 15
Science in Developing Countries. Sub-Saharan Africa: Dr. Osman Shinaishin (357-9550); North Africa and Turkey: Mr. Francis Field (357-9402); South and West Asia: Dr. Osman Shinaishin (357-9402); East Asia: Dr. Gordon Hiebert (357-9537); and Latin America and Caribbean: Ms. Christine French (357-9563), Division of International Programs.	September 1
U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). Indonesia, Malaysia, Singapore, Thailand. Dr. Gordon Hiebert, Division of International Programs	September 1

\*NSF Proposals may be submitted for the following programs at any time of the year. It takes approximately six to nine months to process a proposal. Brochures indicated in parentheses may be ordered.

Division of Astronomical Sciences:

Astronomical Instrumentation and Development. Dr. G. W. Van Citters, Jr. (357-9793).	*
Extragalactic Astronomy. Dr. James Wright (357-7639).	*
Galactic Astronomy. Dr. Morris Aizenman, (Acting) (357-7620).	*
Solar Systems Astronomy. Dr. G. W. Van Citters, Jr. (Acting) (357-7620).	*
Stars and Stellar Evolution. Dr. Peter Pesch (357-7622).	*
Electromagnetic Spectrum. Dr. Vernon Pankonin (357-9696).	*

Division of Atmospheric Sciences:

Aeronomy. Dr. William Sharp (357-7619).	*
Atmospheric Chemistry. Dr. Jarvis Moyers (357-9657).	*
Experimental Meteorology. Dr. Stephan Nelson (357-9431).	*
Global Atmospheric Research. Ms. Pamela Stephans (357-9887).	*
Meteorology. Dr. Ronald Taylor (357-7624).	*
Solar Terrestrial. Dr. Dennis Taylor (357-7624).	*
Upper Atmospheric Facilities. Dr. Richard Behnke (357-7390).	*

Division of Behavioral and Neural Sciences:

Anthropology. Doctoral Dissertation Research (Brochure NSF 84-6). Ms. Mary Greene (357-7804).	*
Psychobiology. Small grants for psychobiological research. Dr. Fred Stollnitz (357-7949).	*

Division of Chemistry:

Synthetic Inorganic and Organometallic Chemistry. (Brochure NSF 83-57). Dr. Oren Williams (357-7499).	*
Chemical Analysis. (Brochure NSF 83-57). Dr. Henry Blount, III (357-7960).	*
Structural Chemistry and Thermodynamics. (Brochure NSF 83-57). Dr. William Harris (357-9826).	*
Chemical Physics. (Brochure NSF 83-57). Dr. William Cramer (357-7951).	*
Chemical Dynamics. (Brochure NSF 83-57). Dr. Richard Holder (357-7956).	*

Division of Computer Research:

Computer Systems Design. Dr. John Lehmann (357-7349). \*

Intelligent Engineering. Dr. Su-Shing Chen (357-7345). \*

Software Engineering. Dr. Bruce Barnes (357-7375). \*

Software Systems Science. Dr. Thomas Keenan (357-7375). \*

Theoretical Computer Science. Dr. Thomas Head (357-7375). \*

Special Projects. Mr. Lawrence Oliver (357-7375). \*

Division of Design, Manufacturing, and Computer Engineering:

Computer Engineering. Dr. Bernard Chern (357-7508). \*

Design Theory and Methodology. Dr. Susan Finger (357-7676). \*

Computer Integrated Engineering. Dr. Howard Moraff  
(357-7676). \*

Manufacturing Systems. Dr. William Spurgeon (357-7676). \*

Automated and Systems Integration. Dr. Howard Moraff  
(357-7676). \*

Division of Electrical, Communications, and Systems Engineering:

Quantum Electronics, Waves and Beams. Dr. James Aller  
(357-9618). \*

Solid State and Microstructures. Dr. Donald Silversmith  
(357-9618). \*

Communications Systems and Signal Processing. Mr. Elias  
Schutzman (357-9618). \*

Systems Theory and Operations Research. Dr. Michael Polis  
(357-9618). \*

Instrumentation, Sensing and Measurement. Mr. Norman Caplan  
(357-9618). \*

Division of Information Science and Technology:

Information Science. (Brochure NSF 81-34). Dr. Joseph  
Deken (357-9569). \*

Information Technology. (Brochure NSF 81-34). Dr. Harold  
Bamford (357-9554). \*

Information Impact. (Brochure NSF 81-34). Dr. Laurence  
Rosenberg (357-9592). \*

Division of International Programs:

U.S.-Korea Cooperative Science. (Brochure NSF 83-50).  
Short-term visits only. Dr. Gerald Edwards (357-9537). \*

U.S.-East Asia Cooperative Science. (Brochure NSF 83-50).  
Excluding Philippines and Korea. Dr. Gordon Hiebert  
(357-9537). \*

U.S.-India Cooperative Science. (Brochure NSF 82-86).  
Dr. Osman Shinaishin (357-9402). \*

U.S.-Pakistan Cooperative Science. (Brochure NSF 82-49).  
Dr. Osman Shinaishin (357-9402). \*

U.S.-China Cooperative Science. (Brochure NSF 82-50).  
The program currently does not accept travel requests.  
Mr. Alexander DeAngelis or Ms. Rose Bader (357-7993). \*

U.S.-Belgium Cooperative Science. (Brochure NSF 83-73).  
Cooperative research projects, joint seminars (357-7554). \*

U.S.-Japan Program for Cooperation in Photoconversion and  
Photosynthesis. (Brochure NSF 83-11). Letter-proposals  
for visits up to two weeks in Japan to plan formal  
research in cooperation with Japanese investigators in the  
areas of photoconversion and photosynthesis (357-9558). \*

U.S.-Ireland Cooperative Science. (Brochure NSF 83-73).  
Cooperative research projects and joint seminars  
(357-7554). \*



Division of Materials Development and Research:  
 Instructional Materials Development; Materials and Methods  
 for Teacher Preparation; Applications of Advanced Tech-  
 nologies; Research in Teaching and Learning. (Brochure  
 NSF 85-10). For suggested target dates or other infor-  
 mation contact the Division (357-7452). \*

Division of Molecular Biosciences:  
 Biochemistry. (Brochure NSF 84-79). Dr. Ira Wool,  
 Dr. H. T. Huang, or Mrs. Estella Engel (357-7945). \*  
 Biological Instrumentation. (Brochures NSF 84-79 and  
 83-19). Dr. John Wooley (357-7652). \*  
 Biophysics. (Brochure NSF 84-79). Dr. Arthur Kowalsky,  
 Dr. Patricia Jost, or Ms. Brenda Flam (357-7777). \*  
 Metabolic Biology. (Brochure NSF 84-79). Dr. W. van B.  
 Robertson or Ms. Carter Kimsey (357-7987). \*  
 Prokaryotic Genetics. (Brochure NSF 84-79). Dr. Philip  
 Harriman (357-9687). \*

Division of Physics:  
 Atomic, Molecular, and Plasma Physics. Dr. Rolf Sinclair  
 (357-7997). \*  
 Elementary Particle Physics. Dr. David Berley (357-9575). \*  
 Intermediate Energy Nuclear Physics. Dr. Peter Riley  
 (357-7992). \*  
 Nuclear Physics. Dr. William Rodney (357-7992). \*  
 Theoretical Physics. Dr. Boris Kayser (357-7979). \*

Division of Research Initiation and Improvement:  
 Research in Undergraduate Institutions. (Brochure NSF 83-79).  
 Proposals submitted through the RUI program are evaluated  
 by the appropriate disciplinary programs in NSF. For more  
 specific target dates and number of copies of proposals  
 needed, contact the appropriate disciplinary program or for  
 general information, contact Dr. Joseph Danek or Ms. Lola  
 Roger (357-7456). \*

Minority Research Initiation. (Brochure NSF 84-75). Dr.  
 Roosevelt Calbert (357-7350). \*

Facilitation Awards for Handicapped Scientists and Engineers.  
 (Brochure NSF 84-62). Proposals for special equipment or  
 assistance to facilitate research by the handicapped as  
 part of NSF-supported projects. Ms. Lola Rogers (357-7552). \*

Research Opportunities for Women. (NSF Brochure in press).  
 Proposals submitted through the ROW program are evaluated  
 by the appropriate disciplinary programs in NSF. For more  
 specific target dates and number of copies of proposals  
 needed, contact the appropriate disciplinary program or  
 for general information contact Dr. Margaret Klein or Ms.  
 Carol Erlebach (357-7734). \*

Division of Teacher Enhancement and Informal Science Education:  
 Local and Regional Teacher Development; Leadership Activities  
 for Precollege Teachers; Informal Science Education;  
 Science and Mathematics Education Networks. (Brochure  
 NSF 85-9). For suggested target dates for proposals for  
 projects to be initiated during the latter part of the 1986  
 calendar year, contact the Division (357-7073). \*

Programs in Other Divisions/Offices:  
 Biological Research Resources. (Brochure NSF 84-68). Dr.  
 James Edwards, Division of Biotic Systems and Resources  
 (357-7475). \*

Industry/University Cooperative Research Projects.  
 (Brochure NSF 82-56). Dr. Frederick Betz (357-7785) or  
 Mr. Alex Schwarzkopf (357-7527), Office of Cross-  
 Disciplinary Research. \*

Industry/University Cooperative Research Centers. Mr.  
 Robert Colton or Mr. Alex Schwarzkopf, Office of Cross-  
 Disciplinary Research (357-7527). \*

Studies and Analyses. Mr. Richard Berry, Office of Studies  
 and Program Assessment, Science and Engineering Education  
 (357-7425). \*

Alternative Biological Resources. (Brochure NSF 84-40).  
 This program is being terminated in fiscal year 1985.  
 Interested persons should contact Dr. H. T. Huang, Division  
 of Molecular Biosciences (357-9782) for suggestions of  
 alternative programs to which their proposals may be  
 submitted. \*

### U.S. Department of Agriculture

Competitive Research Grants Program  
 Soybean Various

Cooperative State Research Service - Special Research  
 Grants Program

Animal Health Research March 10

Aquaculture Research March 19

### Department of Commerce

National Bureau of Standards; Center for Manufacturing  
 Engineering, Automated Manufacturing Research Facility  
 (AMRF) Research Grants Program Open

### Department of Defense

Strategic Defense Initiative Innovative Science and  
 Technology Office Open

U.S. Air Force

University Resident Research Program Open

ONR and DARPA

University Research Institute Program April 15

### Department of Energy

Office of Energy Research  
 Special Research Grants Programs Open  
 (For FY 1986 funding - deadline is April 15)

### Department of Justice

Office of Juvenile Justice and Delinquency Prevention  
 Research and Program Development Programs Open

<b>National Institute of Justice</b>		
Fellowships		
Visiting Fellowships	March	14
Graduate Research Fellowships	March	14
Summer Research Fellowships	April	2
The Serious Offender		
Violent Criminal Behavior	March	19
Offender Classification and Prediction of Criminal Behavior	March	26
Drugs, Alcohol and Crime	April	2
Crime Control Theory and Policy	April	9
Victims of Crime	March	28
Crime Prevention	May	16
Criminal Justice System		
The System of Criminal Justice	March	14
Police Efficiency and Effectiveness	April	18
Corrections	April	25
Court Effectiveness	May	2
Supplementing the National Crime Survey	May	2

#### **Environmental Protection Agency**

Environmental Biology	Open*
Environmental Health	Open*
Environmental Engineering	Open*
Environmental Air/Water Chemistry and Physics	Open*
Special Research Grants and Student Fellowship Program	Open*
*Suggested closing date - February 15 and August 15	

#### **National Endowment for the Arts**

U.S./French Exchange Program: Deadline varies with Discipline	Various
Museum	
Special Projects	Open
Design Exploration/Research	April 10
Arts Management Fellowship Program	April 18

#### **National Endowment for the Humanities**

Division of Education Programs	
Central Disciplines in Undergraduate Education	April 1
Exemplary Projects in Undergraduate and Graduate Education	April 1
Humanities Programs for Nontraditional Learners	April 1
Improving the Preparation of Teachers of Humanities	Contact ORTTA
Division of Fellowships & Seminars	
Independent Study and Research	June 1
College Teachers	June 1
Constitutional Fellowships	June 1

Division of General Programs		
Media	March	21
Humanities Programs for Adults	March	21
Humanities Projects in Libraries	March	21
Museum & Historical Organizations	June	13
Youth Projects	June	13
(Preliminary Narrative - April 1986)		
Division of Research Programs		
Publication Subvention	April	1
Editions	June	1
Translations	June	1
Office of Challenge Grants	May	1
Office of Preservation	June	1

### National Gallery of Art

Center for Advanced Study in the Visual Arts Visiting Senior Fellowships and Associates (For 9/16/86-2/28/87)	March	21
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### National Research Council

Research Associateship Postdoctoral Awards	April	15
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### National Aeronautics & Space Administration

Airborne Astronomy Program	Open	
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### NONFEDERAL

American Cancer Society		
Research and Clinical Investigator Grants	April	1
American Chemical Society - Petroleum Research Fund		
Grants-in-Aid	No	Deadline
American Nurses' Foundation		
Research Grants	June	1
American Philosophical Society		
Grants-in-Aid	Various--	Contact ORTTA
American Veterinary Medicine Foundation	August	1
Bosch Foundation Fellowship Program	No	Deadline
Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)	No	Deadline
Carnegie Corporation - Education Grants	No	Deadline
Center for Field Research (Earthwatch)		
Latin America Field Research Grants	No	Deadline
Council for International Exchange of Scholars	June	15
Edna McConnell Clark Foundation	No	Deadline
Engineering Foundation (Pre-proposals)	No	Deadline
Exxon Education Foundation - Grants for Curriculum and Teaching and Management of Higher Education Programs	Open	
Gas Research Foundation		
Telephone contact or letter of inquiry prior to submission of formal proposal	No	Deadline

German Marshall Fund		
Short-Term Travel Awards	No	Deadline
International Foundation of Employee Benefit Plans		
Postdoctoral Grants-in-Aid	Open	
International Research and Exchanges Board		
Specialized Language Training	March	15
Fellowships for Comparative Studies Including the USSR and Eastern Europe	March	15
Kellogg Foundation		
Expanding Opportunities for Adult Continuing Education	Continuous	
Health Promotion and Disease Prevention Programs	Continuous	
Coordinated, Cost-Effective Health Service Programs	Continuous	
Improving Human Well Being Through Productive Agriculture	Continuous	
Fostering Leadership Capacity	Continuous	
Leukemia Society of America		
Short-term Scientific Exchange Award	April	1
President's Research Development	April	1
MacArthur Foundation		
International Security Program	Open	
March of Dimes Birth Defects Foundation		
Basil O'Connor Starter Research Grants	Continuous	
Mathers Charitable Foundation	Continuous	
Metropolitan Life Foundation	No	Deadline
Minnesota Humanities Commission		
Small Grant	No	Deadline
Minnesota Medical Foundation	March	30
National Geographic Society		
Grants-in-Aid	No	Deadline
Research Corporation		
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No	Deadline
Rockefeller Foundation		
Research on the Genetic Engineering of Rice	Open	
Damon Runyun-Walter Winchell		
Cancer Fund		
Postdoctoral Research Fellowships for Basic Scientists	March	15
Sigma XI -		
Grants-in-Aid of Research	May	1
Alfred P. Sloan Foundation	No	Deadline
Technicon Instruments Corporation		
Grants for Research in Biomedical and Industrial Instrumentation - Pre-proposals	No	Deadline
Thrasher Research Fund		
Grants in Nutrition, Infectious Diseases, Health Promotion	No	Deadline
University Genetics Company (UGEN)	No	Deadline
Villers Foundation	No	Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

Office of Research and Technology  
Transfer Administration  
Administrative Services Center, 5th Floor  
1919 University Avenue  
University of Minnesota  
St. Paul, Minnesota 55104

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# ORA RDC Newsletter

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APRIL 1986

VOLUME XV/NO. 10

## Proposal and Award Activity

According to statistics compiled by the ORTTA, sponsored program activity at the University of Minnesota has increased considerably during the first seven months of fiscal year 1986. The number of awards processed by this office has increased 25 percent, while the number of proposal submissions has increased 9 percent. The following tables provide activity level comparisons in both number and dollar amounts (millions), by broad agency categories, for the same time periods in each fiscal year.

### AWARDS PROCESSED

Source of Support	FY 1985 (July - January)		FY 1986 (July - January)		Percent Change	
	Number	Amount	Number	Amount	Number	Amount
Federal	647	\$70.8	523	\$56.5	23.7	25.3
State	112	4.2	94	3.1	19.1	35.5
Business & Industry	175	5.6	136	5.7	28.7	-1.8
Foundations & Assn.	289	8.8	235	6.3	23.0	39.7
Other Private Sponsors	118	3.9	88	2.3	34.1	69.6
	1,341	\$93.4	1,076	\$73.9	24.6	26.4

### PROPOSALS SUBMITTED

Source of Support	FY 1985 (July - January)		FY 1986 (July - January)		Percent Change	
	Number	Amount	Number	Amount	Number	Amount
Federal	913	\$188.2	834	\$155.5	9.5	21.0
State	70	2.9	65	2.7	7.7	7.4
Business & Industry	151	7.8	141	9.5	7.1	-17.9
Foundations & Assn.	401	22.8	405	20.1	-1.0	13.4
Other Private Sponsors	118	9.7	72	4.1	63.9	136.6
	1,653	\$231.5	1,517	\$191.9	9.0	20.6

## Questions for the ORTTA Newsletter

The Office of Research and Technology Transfer Administration has begun a review of this newsletter in an effort to increase its usefulness to faculty and staff involved in sponsored program activity. In the course of grant and contract administration, principal investigators often raise questions related to federal regulations, university regulations or the specific management of their grants. Some of these topics might be of wider interest and could be easily addressed in this newsletter. Therefore, we would like to receive from our readers comments regarding specific ways to improve and suggestions for questions and topics you would like addressed in future issues. They can be directed to Winifred A. Schumi, Assistant Director, Room 553 Administrative Services Center.

## New Telephone Numbers for ORTTA Staff

The cutover to the new University telephone system is scheduled to occur on April 26, 1986, for the Office of Research and Technology Transfer Administration. Listed below are new numbers for key staff in our office. Additional staff are listed in the conversion directory to be published by the Telecommunications Department.

### OFFICE OF RESEARCH AND TECHNOLOGY TRANSFER ADMINISTRATION

624-1648     A. R. Potami             Assistant Vice President

#### Administrative Support

624-6085     Mary Cybyske             Administrative Director  
624-6389     Nancy Rush                Executive Secretary

#### Grants and Contracts Administration

624-5856     Mary Lou Weiss            Assistant Director  
624-0288     Merlin Garlid             Assistant Director  
624-0583     John Garland             Pr. Grant Administrator  
624-2546     Judith Krzyzek            Pr. Grant Administrator  
624-5066     Todd Morrison            Pr. Grant Administrator  
624-5571     Mary Bergaas             Sr. Grant Administrator  
624-1676     Mary Dockter             Sr. Grant Administrator  
624-1059     Judy Lewis                Accountant  
624-0035     Charlene Videen         Accountant

#### Financial Reporting

624-4850     Marilyn Surbey            Assistant Director  
624-2307     Carol Perusse            Pr. Accountant (Financial Reporting)  
624-3848     Laurie Fishman           Pr. Accountant (Effort Certification)  
624-2040     Leslie Stagg             Pr. Accountant (Research Cost Acctg.)

#### Information Services

624-5750     Winifred A. Schumi       Assistant Director  
624-2574     Stephen Pheneger        Executive Assistant



## Patents and Licensing

624-2816	John F. Thunte	Director
624-0869	Anthony Strauss	Assistant to Director
624-0262	Kathleen Terry	Assistant to Director
624-3317	Judy Volinkaty	Pr. Grant Administrator

## Human Subjects Committee

624-1889	Anne Munro	Executive Secretary
624-9829	Ellen Stewart	Principal Secretary

## **The First Independent Research Support and Transition (First) Award**

The National Institutes of Health (NIH) is replacing its current New Investigator Research Award (R23) with the new FIRST award which will provide an opportunity for first-time investigators to apply for NIH support for longer periods of time and for increased levels of funding. The principal features are: a) new investigators may receive awards for up to a period of five years; b) the maximum level for these awards is \$350,000 for a 5-year period; and c) the award will permit optional carry-over of unobligated balances from one budget period to the next. The first receipt date for FIRST applications will be June 1, 1986.

## **Supercomputer Initiation Grants for Biological, Biomedical, Behavioral, Social and Economic Scientists**

The National Institutes of Health (NIH) and the Directorate for Biological, Behavioral and Social Sciences (BBS) of the National Science Foundation (NSF) announce a joint program designed to encourage the broadened use of supercomputers by biological, biomedical, behavioral, social and economic scientists. The actual CPU hours on supercomputers will be provided by the Office of Advanced Scientific Computing (OASC) of the NSF.

Through this joint NSF/NIH Program, NSF will make peer-reviewed awards of up to 25 hours of supercomputer CPU time to promote the exploratory use of supercomputers by researchers including those with little or no experience with supercomputers but who anticipate that supercomputers might make a significant impact on their research.

To be considered for an award, an investigator should submit a brief proposal outlining the nature of the problem to be studied and the potential advantages of supercomputer usage. The competition for these initiation level awards is open to all biological, biomedical, behavioral, and social scientists, and does not replace any of the other NSF mechanisms for providing supercomputer access. The deadline for receipt of proposals is April 18, 1986. For further information contact Mary Lou Weiss at 373-5605 or Mary Bergaas at 373-2784.

## **Engineering and the Life Sciences (NSF)**

The National Science Foundation has announced a new initiative linking engineers and life scientists to try to develop techniques that use living systems to synthesize economically important substances. NSF's Engineering

Directorate's biotechnology program is encouraging multidisciplinary research teams to address problems involved in development of large-scale manufacturing techniques to produce biologically active substances. Critical problems include: a) the development of cellular culturing systems; b) the development of bioreactors; c) the development of separation and purification processes; and d) the development of analytical monitoring methods. The proposal deadline is May 15. For more information, contact Fred Heineken, Ph.D., Biotechnology Program, Directorate for Engineering, NSF, Washington, DC 20550, (202) 357-9545, or Mary Bergaas, ORTTA, 373-2784.

### Industry/University Cooperative Research Centers Program (NSF)

The goals of the Industry/University Cooperative Research Centers program of the National Science Foundation are to:

- develop industry, state, and other support for Industry/University interaction on industrially relevant science and engineering research topics;
- promote university research to provide a knowledge base for industrial and technological advancement while training students; and
- promote research centers that become self-sustaining with industry, state, and other funding within a five-year period.

For copies of the announcement describing this program in more detail, contact Mary Bergaas at 373-2784.

### Minority Research Planning Grants (NSF)

The National Science Foundation provides limited support to minority scientists who lack experience in preparing research proposals. This support is designed to strengthen the proposal writing and planning abilities of investigators who have not previously received federal research support. Eligible applicants include minority scientists who hold a full-time faculty or research-related position at a U.S. college or university and who have not previously received federal research support as faculty members. Previous research support in non-faculty positions does not exclude an applicant. The next application deadline is June 2, 1986. For information about the MRI program, contact Mary Bergaas at 373-2784.

### Collection of Data on Proposers and Principal Investigators by NSF

The National Science Foundation (NSF) is committed to providing equal opportunities for participation in its programs and promoting the full use of the Nation's scientific resources. Accordingly, the Foundation is asking for assistance in gathering information on the gender, race, ethnicity, and handicap status of individuals named as PIs or Co PIs on proposals and awards.

To gather the information needed for this important task, NSF will require that a single copy of NSF Form 1225 be submitted with each proposal to the Foundation. Effective March 1, 1986, this form must be received before proposal review is initiated. Submission of the information requested on the

form is not mandatory and is not a precondition of award. Any individual not wishing to submit the personal information may check the box provided for that purpose on the form.

Copies of NSF Form 1225 are available from ORTTA by contacting Mary Bergaas at 373-2784.

#### March of Dimes Birth Defects Foundation

The March of Dimes Birth Defects Foundation, which has had a long tradition of support of clinical research, is now actively soliciting proposals in birth defects research focused entirely in humans. The proposals are not to include work with animals, animal tissues, tissue culture, microorganisms and the like. The Foundation has other research programs to support these studies.

A 300-word abstract indicating objectives, hypotheses and methodologies should be mailed to the Vice President for Research, March of Dimes Birth Defects Foundation, 1275 Mamaroneck Avenue, White Plains, NY 10605. If the abstract is accepted, an application form will be sent. Abstracts should be sent prior to May 15 so that there is sufficient time to complete the application for the August 1 deadline.

#### Request for Proposals to Study Air Quality

The State of North Dakota Air Quality Trust Fund Committee has issued an RFP to study the effects of air quality on the Theodore Roosevelt National Park and adjoining area. Particular air contaminants of interest from emissions of energy producing industries include, but are not limited to, the following: primary contaminants of particulate matter, sulfur dioxide, nitrogen oxides, ozone and hydrogen sulfide; and the secondary contaminants of sulfates, nitrates, and heavy metals/trace elements. The range of impacts includes effects on visibility, effects on the biological communities of plants and animals, effects on materials (historic and otherwise), effects on human utilization, and odors. Proposals must be postmarked no later than May 1, 1986. Copies of the RFP can be obtained by contacting ORTTA at 376-7353.

#### SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORTTA CONTACT NUMBERS FOR DEADLINE/PROGRAM INFORMATION ARE 376-7358 OR 376-7689.

FEDERAL

National Institutes of Health

NIH

NIH	Fogarty International Center for Advanced Study in Health Sciences - various programs	Various	
NIH	Fogarty International Center Senior International Fellowships	May	10
NIH	National Research Service Awards for Senior Fellows	May	10
NIH	National Research Service Awards for Individual Postdoctoral Fellows	May	10
NIH	National Research Service Award Institutional Grants	May	10
NIH	Institutional Training Programs	May	10
NIH	Research Grants, New	June	1
NIH	New Investigator Awards	June	1
NIH	Research Career Development Awards	June	1
NIH	Individual Postdoctoral Fellowships	June	1
NIH	Support of Scientific Meetings	June	1
NIH	Physician Scientist Award	June	1
NIH	Research Grants, Renewals	July	1

NCI

NCI	Prevention Clinical Trials Utilizing Intermediate Endpoints and Their Modulation by Chemopreventive Agents	April	11
NCI	86-CA-08 Studies on the Etiology of Neoplasia in Poikilothermic, Aquatic Animals: Finfish and Shellfish (NIEHS)	May	1
NCI	Surgical Oncology Research Training Grant	May	10
NCI	Outstanding Investigators Grant	May	15
NCI	Cancer Education Program	June	1
NCI	Comprehensive Minority Biomedical Program - Minority Satellite Supplement	June	1
NCI	Comprehensive Minority Biomedical Program - Minority Investigator Supplement	June	1
NCI	Multinuclear Magnetic Resonance Imaging and Spectroscopy	June	1
NCI	Studies of Dose Fractionation and Volume Late Effects in Normal Tissues Using Animal Models	June	1
NCI	Studies on Feline Retroviruses	June	1
NCI	Small Grants Program for Epidemiology	June	1
NCI	Interactions Among Micronutrients in the Prevention of Experimental Mammary Cancer	June	1
NCI	Mechanisms of Site Specific Metastasis in Prostate Cancer	June	1
NCI	Characterization of Multidrug Resistant Human and Other Mammalian Tumor Cell Lines	June	1
NCI	Biological Role of Exocyclic Nucleic Acid Derivatives in Carcinogenesis	June	1
NCI	Prevention and Cessation of Use of Smokeless Tobacco	June	1
NCI	CA-86-09 Inheritance and Markers of Colorectal Cancer and Polyps	June	15
NCI	86-CA-11 Increasing Mammography and Breast Palpation	July	14

NCI	86-CA-07 The Transformation Mechanisms of Human Polyomaviruses	July	15
NCI	CA-86-06 Cooperative Human Tissue Network	July	15
NEI			
NEI	86-EY-03 Construction, Alteration, and Renovation, and Instrumentation	May	15
NEI	Small Grants Program for Pilot Projects	June	1
NEI	NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
NHLBI			
NHLBI	Mechanisms Responsible for Age-Related Increase in Blood Pressure (NIA)	April	16
NHLBI	86-HL-13-H Model Systems for Blood Cholesterol Screening	April	16
NHLBI	86-HL-8-P, Research in Nutrition and Cardiovascular Disease (Letter of intent - February 15)	April	18
NHLBI	86-HL-16-P Clinical Centers for Trials of Hypertension Prevention	April	21
NHLBI	86-HL-18-P Coordinating Center for Trials of Hypertension Prevention	April	21
NHLBI	86-HL-17-P Clinical Centers for a Trial of Dietary Intervention in Children with Elevated Low Density Lipoprotein Levels to Assess Feasibility, Acceptability, Efficacy and Safety	April	21
NHLBI	86-HL-19-P Coordinating Centers for a Trial of Dietary Intervention in Children with Elevated Low Density Lipoprotein Levels to Assess Feasibility, Acceptability, Efficacy and Safety	April	21
NHLBI	Research Training and Development Area: National Research Service Award Programs		
	Institutional Research Training Grant Award	May	10
	Individual Postdoctoral Fellowship Award	May	10
	Senior Research Fellowship Award	May	10
NHLBI	86-HL-10-B Prevalence and Consequences of Hepatitis Delta Infection In Hemophilia (NIAID)	May	15
	Research Career Development Programs		
	Research Career Development Award	June	1
	Clinical Investigator Award	June	1
	Physician Scientist Award	June	1
	Special Emphasis Research Career Award: Diabetes Mellitus	June	1
NHLBI	Research Career Development Award: Basic Science Related to the Respiratory System	June	1
NHLBI	Demonstration and Education Research in Cystic Fibrosis	June	1
NHLBI	Cardiovascular Studies in Animals	June	1
NHLBI	Blood Cell Surface Antigens Related to Disease	June	1
NHLBI	86-HL-07-B, Comprehensive Sickle Cell Centers	September	15
NHLBI	Transfusion Medicine Academic Award	October	15

NIA

NIA	86-AG-01, Mechanisms Responsible for Age-Related Increase in Blood Pressure (NHLBI)	April	16
NIA	Aging and Visual Perception Postdoctoral Fellow Program Project	June	1
		June	1
NIA	Health Behaviors and Aging: Behavioral Geriatrics Research	June	1
NIA	NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	June	1
NIA	NIAID/NIADDK/NICHHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	June	1
NIA	Complementary Training Awards for Research on Aging	June	1

NIADDKD

NIADDKD	Minority Investigator Research Enhancement Award	Open	
NIADDKD	Disease Mechanisms in Immunologic Renal Disease	June	1
NIADDKD	NINCDS/NIAID/NICHHD/NIGMS/NEI/NIEHS/NIA/NIAAA/NIMH Biological Mechanisms of Omega-3 Fatty Acids Health and Disease States	June	in 1
NIADDKD	Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	June	1
NIADDKD	86-AM-01 Digestive Diseases Core Centers	June	16
NIADDKD	Kidney and Urological Research Centers (Letter of intent - January 15)	July	15

NIAID

NIAID	Minority Investigator Research Enhancement Program	Open	
NIAID	Prevalence and Consequences of Hepatitis Delta Infection in Hemophilia (NHLBI)	May	15
NIAID	Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginitis (Vaginitis) Career Development	June	1
	Physician Scientist	June	1
	Clinical Investigator	June	1
	Postdoctoral Fellow	June	1
NIAID	Pharmaceuticals from the Sea	June	1
NIAID	Program Projects on the Biology of Immune System - Program Project Grants (Letter of intent - March 15)	June	15
	Center Grants (Letter of intent - August 15)	November	15
NIAID	86-AI-08 Sexually Transmitted Disease Research Units	July	15
NIAID	Asthma and Allergic Diseases Centers (Letter of intent - June)	September	15
		June	15)
NIAID	86-AI-07 Program Projects on Transplantation Immunology	September	15

NICHD

NICHD	86-HD-02 The Pathogenesis of Sudden Infant Death Syndrome	May	23
NICHD	86-HD-03 Transdermal Administration of Contraceptive Drugs	July	15

**NIDR**

NIDR	Small Grant Program	Open	
NIDR	Large Grant Support Program	June	1
NIDR	Minority Research Supplement Program	July	1
NIDR	Research Centers in Oral Biology	December	1

**NIEHS**

NIEHS	Studies on the Etiology of Neoplasia in Poikilothermic, Aquatic Animals: Finfish and Shellfish (NCI)	May	1
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**NIGMS**

NIGMS	Cellular and Molecular Basis of Disease Research	June	1
NIGMS	Physiology and Biomedical Engineering	June	1
NIGMS	Genetic Research	June	1
NIGMS	Pharmacological Sciences	June	1

**NINCDS**

NINCDS	Clinical Investigator Development Award	June	1
NINCDS	Multidisciplinary Research Centers for the Study of Neuro-Genetic Disorders of Infancy and Childhood (P50)	June	1
NINCDS	Research Grants on the Relationship Between Seizures and Sleep	June	1

**NIOSH**

NIOSH	Research and Demonstrations Relating to Occupational Safety and Health (CDC):		
	Research Grants	June	1
	Demonstration Grants	June	1
	Program Project Grants	June	1
	Special Emphasis Research Career Award	July	1
NIOSH	Small Grant Program	July	1
	Engineering Control Systems Research (CDC)		
	New Applications	June	1
	Career Development, Small Grants, and Competing Renewals	July	1

**NLM**

NLM	Investigator-Initiated Research Grants/New Investigator Research Awards	June	1
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**Division of Research Resources**

DRR	Small Grants Program for Pilot Projects - Biomedical Research Technology Program	June	1
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**Alcohol, Drug Abuse, and Mental Health**

ADAMHA,	Small Grants Program	Open	
ADAMHA,	Research Grants, New	June	1

ADAMHA, Institutional Training Grants, NRSA	June	1
ADAMHA, Research Scientist Development Award	June	1
ADAMHA, Research Scientist Award	June	1
NIAAA, Research on Children of Alcoholics	June	1
NIAAA, Alcohol Resource Center Grants	June	1
NIAAA, Alcohol Research Grants	June	1
NIAAA, New Investigator Research Awards	June	1
NIAAA, Research Grants on Alcohol-Related Performance Effects and Traumatic Injury	June	1
NIAAA/NIDA/NIMH, Institutional NRSA Training	June	1
NIDA/NIMH, MH-86-16, Acquired Immunodeficiency Syndrome Research Centers	May	1
NIDA/NIAAA, Community Prevention Research in Alcohol and Drug Abuse	June	1
NIDA, Drug Abuse Prevention Research	June	1
NIMH, Research Support Programs	June	1
Small Grant Program (with NIAAA and NIDA)		Open
NIMH/NIDA, MH-86-16, Acquired Immunodeficiency Syndrome Research Centers	May	1
Grants for Mental Health Service System Research	June	1
Geriatric Mental Health Academic Awards	June	1
Preventive Intervention Research Centers (PIRC)	June	1
Rape Center	June	1
Prevention Research Branch	June	1
New Investigator Research Award (NIRA) in Prevention (with NIAAA and NIDA)	June	1
Clinical Research Centers on Psychopathology of the Elderly	June	1
Clinical Investigator Award	June	1
Physician Scientist Award	June	1
Autism and Related Behavioral Disorders (with NINCDS)	June	1
Studies on Obesity (with NIH Institutes and NIDA)	June	1
Support for Child and Adolescent Mental Health Research and Research Training	June	1
Research on Mental Illness in Nursing Homes	June	1
AA-85-02, Research Grants on the Prevention of Alcohol, Drug Abuse, and Mental Health (ADM) Disorders at the Worksite (with NIAAA and NIDA)	June	1
Service System and Economic Research Programs	June	1
MH-86-03, Assessment of Mental Health Problems in Disaster Victims	June	1
MH-86-05, Prevention Research on Mutual Support Approaches with Bereaved Populations	June	1
MH-86-07, Research on Family Stress and the Care of Alzheimer's Disease Victims	June	1
MH-84-01, Research Support Programs: Neurosciences, Behavioral Sciences, Epidemiologic, Clinical Assessment and Etiological, Treatment, Prevention and Service Research New Regular Research Grants	June	1
Support for Child and Adolescent Mental Health Research and Research Training: Research Grants	June	1
Research Grants Program	June	1
Antidepressant Drugs in the Treatment of Anxiety Disorders	June	1
Clinical Research Centers on Psychopathology of the Elderly	June	1
Anti-Social and Violent Behavior	June	1



MH-86-06, Research on Method for Studying Mental Health Service Systems	June	1
Research Reimbursement Issues in Mental Health Services Delivery	July	1

**Office of Population Affairs**

Opportunities for Research on Adolescent Family Life	June	1
Opportunities for Research in Family Planning Service Delivery Improvement	June	1

**Health Resources and Services Administration**

National Research Service Awards - Institutional Grants	June	1
Maternal and Child Health Projects		
Long-term Training	May	1
Hemophilia Diagnostic and Treatment Centers	May	1
Research	August	1

**National Center for Health Services Research**

Conference Grants (Preliminary submission required prior to formal application)	Open	
Extramural Research	June	1

**Department of Education**

Educational Research - Unsolicited Proposals	July	31
National Institute for Handicapped Research		
Innovative Grants	until July	1
Fund for the Improvement of Postsecondary Education		
Preapplications	March	4
Final Applications	June	4

**National Science Foundation**

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Program	Open
Teacher Enhancement and Informal Science Education	
Presidential Awards for Excellence in Science and Mathematics Teaching	Open

U.S.-France Cooperative Science. (Brochure NSF 83-73). Proposals for cooperative research projects and joint work- shops/seminars with requested effective dates in calendar year 1987. Division of International Programs (357-7554).	May	1
U.S.-Argentina Cooperative Science. (Brochure NSF 80-52). Mr. Dimas Chavez, Division of International Programs (357-9563).	May	1
U.S.-Brazil Cooperative Science. (Brochure NSF 80-52). Mr. Dimas Chavez, Division of International Programs (357-9563).	May	1
U.S.-Mexico Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
U.S.-Venezuela Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
U.S.-Latin America and Caribbean Cooperative Science. (Brochure NSF 80-52). Ms. Christine French, Division of International Programs (357-9563).	May	1
Computer Research Equipment. (Brochure NSF 84-87). Limited to research equipment to support multiple research projects in computer science or computer engineering at graduate institutions. Dr. John Lehmann, Division of Computer Research (357-7349).	May	1
Programs in Preparing Middle School Science and Mathematics Teachers (202) 375-7069.	May	2
U.S. Antarctic Research. For field work in the 1987-1988 austral summer or in 1988 winter, or for research not involving field work beginning as early as November 1986. Mr. Guy Gurthridge, Division of Polar Programs (357-7817).	June	1
U.S.-Japan Cooperative Science. (Brochure NSF 81-58). Proposals for cooperative research and joint seminar activities are accepted in May each year. Division of International Programs (357-9558).	June	1
U.S.-Italy Cooperative Science. (Brochure NSF 83-73). Proposals for cooperative research projects and joint seminars. Division of International Programs (357-7554).	June	1
U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for short-term visits only to plan scientific research or carry-out short, self-contained research activities. Division of International Programs (357-7554).	June	15
U.S.-Korea Cooperative Science. (Brochure NSF-83-50). Proposals for long-term visits and cooperative research only. Dr. Gerald Edwards, Division of International Programs (357-9537).	July	1
U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). Philippine component only. Proposals for long-term visits, cooperative research, seminars and workshops. Dr. Gerald Edwards, Division of International Programs (357-9537).	July	1
Ship Operations. (Brochure NSF 84-63). "Instructions for Preparation of Proposals, Requesting Support for Oceanographic Facilities." Mr. John McMillan, Division of Ocean Sciences (357-7837).	July	1
Shipboard Technicians. (Brochures NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceano- graphic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	July	1

Small Business Innovation Research. Mr. Roland Tibbetts or Mr. Richie Coryell, Division of Industrial Science and Technological Innovation (357-7527).	July	14
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	August	1
Special Research Initiation Awards for New Investigators in Information Science and Technology. (Brochures NSF 81-34 and 81-69). Dr. Charles Brownstein, Division of Information Science and Technology (357-9572).	August	6
Oceanographic Instrumentation. (Brochure NSF 84-63). "Instruction for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	September	1
Shipboard Scientific Support Equipment. (Brochure NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Dr. Richard West, Division of Ocean Sciences (357-7837).	September	1
Arctic Research. Mr. Guy Guthridge, Division of Polar Programs (357-7766).	September	1
U.S.-United Kingdom Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September	15
U.S.-Austria Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-9700).	September	15
U.S.-Federal Republic of Germany Cooperative Science. (Brochure NSF 83-73). Semi-annual deadline for proposals for joint research and seminars. Division of International Programs (357-9700).	September	15
Cooperative Science Activities with Denmark, Iceland, the Netherlands, and Norway. (Brochure NSF 83-73). Division of International Programs.	September	15
U.S.-Finland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September	15
U.S.-Sweden Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September	15
U.S.-Switzerland Cooperative Science. (Brochure NSF 85-42). Dr. Harry Hedges (357-7349) or Dr. Robert Minnick (357-7345), Division of Computer Research.	September	15

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

U.S.-Eastern European Cooperative Science. (Brochure NSF 81-27). Bulgaria, Hungary, and Romania cooperative research projects, bilateral seminars. Dr. Gerson Sher or Ms. Bonnie Thompson, Division of International Programs (357-7494).	May	1
Doctoral Dissertation Research in Biotic Systems and Resources. (Brochure NSF 83-71). Dr. James Edwards, Division of Biotic Systems and Resources (357-7475).	May	1
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	May	1
Biological Oceanography, Chemical Oceanography, Marine Geology and Geophysics, Physical Oceanography. Dr. Robert Wall, Division of Ocean Sciences (357-7924).	June	1
Ocean Drilling Program, U.S. Science. Dr. Garrett Brass, Division of Ocean Sciences (357-7924).	June	1

Minority Research Planning Grants, MRI Program Director (357-7350)	June	2
Ecology. (Brochure NSF 84-68). Dr. Patrick Flanagan, Division of Biotic Systems and Resources (357-9734).	June	16
Ecosystem Studies. (Brochure NSF 84-68). Dr. James Gosz, Division of Biotic Systems and Resources (357-9596).	June	16
Population Biology and Physiological Ecology. (Brochure NSF 84-68). Dr. James Collins, Division of Biotic Systems and Resources (357-9728).	June	16
Systematic Biology. (Brochure NSF 84-68). Dr. James Rodman, Division of Biotic Systems and Resources (357-9588).	June	16
Cell Biology. (Brochure NSF 85-11). Dr. Arnold Kaplan or Dr. Gertrude Kasebekar, Division of Cellular Biosciences (357-7474).	July	1
Cellular Physiology. (Brochure NSF 85-11). Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (357-7377).	July	1
Developmental Biology. (Brochure NSF 85-11). Dr. Joseph Mascarenhas, Division of Cellular Biosciences (357-7989).	July	1
Eukaryotic Genetics. (Brochure NSF 85-11). Dr. DeLill Nasser, Division of Cellular Biosciences (357-0112).	July	1
Regulatory Biology. (Brochure NSF 85-11). Dr. Lewis Greenwald or Dr. Elvira Doman, Division of Cellular Biosciences (357-7975).	July	1
Social and Developmental Psychology. (Brochure NSF 84-72). Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (357-9485).	July	1
Molecular and Cellular Neurobiology. (Brochure NSF 84-72). Dr. Stephen Morris, Division of Behavioral and Neural Sciences (357-7471).	July	15
Psychobiology. (Brochure NSF 83-57). Dr. Fred Stollnitz or Kathie Olsen, Division of Behavioral and Neural Sciences (357-7949).	July	15
Developmental Neuroscience. (Brochure NSF 84-72). Dr. Frank Collins, Division of Behavioral and Neural Sciences (357-7042).	July	15
Integrative Neural Systems. (Brochure NSF 84-72). Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (357-7040).	July	15
Sensory Physiology and Perception. (Brochure NSF 84-72). Dr. Carol Welt, Division of Behavioral and Neural Sciences (357-7428).	July	15
Climate Dynamics. Dr. Thomas Crowley, Division of Atmo- spheric Sciences (357-9892).	August	1
Linguistics. (Brochure NSF 84-72). Dr. Paul Chapin, Division of Behavioral and Neural Sciences (357-7696).		
Memory and Cognitive Processes. (Brochure NSF 84-72). Dr. Joseph Young, Division of Behavioral and Neural Sciences (357-9898).	August	1
Anthropology. (Brochure NSF 84-72). Dr. John Yellen or Dr. Stuart Plattner, Division of Behavioral and Neural Sciences (357-7804).	August	1
Decision and Management Science. Dr Robert Thrall (357-7569) or Dr. Vincent Covello (357-7417), Division of Social and Economic Science.	August	15

Economics. Dr. James Blackman, Dr. Daniel Newlon or Dr. Lynn Pollnow, Division of Social and Economic Science (357-9674).	August	15
Geography and Regional Science. Dr. Ronald Abler, Division of Social and Economic Science (357-7326).	August	15
History and Philosophy of Science. Dr. Ronald Overmann or Ms. Dorothy Greene, Division of Social and Economic Science (357-7913).	August	15
Law and Social Sciences Program. Felice J. Levine (357-9567)	August	15
Science in Developing Countries. Sub-Saharan Africa: Dr. Osman Shinaishin (357-9550); North Africa and Turkey: Mr. Francis Field (357-9402); South and West Asia: Dr. Osman Shinaishin (357-9402); East Asia: Dr. Gordon Hiebert (357-9537); and Latin America and Caribbean: Ms. Christine French (357-9563), Division of International Programs.	September	1
U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). Indonesia, Malaysia, Singapore, Thailand. Dr. Gordon Hiebert, Division of International Programs	September	1

#### U.S. Department of Agriculture

Competitive Research Grants Program Soybean	Various	
Office of Grants and Program Systems FY 1986 Competitive Research Grant Program for Forest and Rangeland Renewables Resources	May 15(est)	
Cooperative State Research Service FY 1986 Rangeland Research Grants Program	May 15(est)	

#### U.S. Department of Commerce

National Bureau of Standards; Center for Manufacturing Engineering, Automated Manufacturing Research Facility (AMRF) Research Grants Program	Open	
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#### U.S. Department of Defense

Strategic Defense Initiative Innovative Science and Technology Office	Open	
U.S. Air Force University Resident Research Program	Open	
ONR and DARPA University Research Institute Program	April	15

#### U.S. Department of Energy

Office of Energy Research Special Research Grants Programs (For FY 1986 funding - deadline is April 15)	Open	
Advanced Coal Research	Open	

## U.S. Department of Justice

Office of Juvenile Justice and Delinquency Prevention Research and Program Development Programs	Open	
National Institute of Justice Crime Prevention	May	16
Criminal Justice System Police Efficiency and Effectiveness	April	18
Corrections	April	25
Court Effectiveness	May	2
Supplementing the National Crime Survey	May	2

## Environmental Protection Agency

Environmental Biology	Open*	
Environmental Health	Open*	
Environmental Engineering	Open*	
Environmental Air/Water Chemistry and Physics	Open*	
Special Research Grants and Student Fellowship Program	Open*	
*Suggested closing date - February 15 and August 15		

## National Endowment for the Arts

U.S./French Exchange Program: Deadline varies with Discipline	Various	
Museum Special Projects	Open	
Design Exploration/Research	April	10
Arts Management Fellowship Program	April	18

## National Endowment for the Humanities

Division of Education Programs Improving the Preparation of Teachers of Humanities	Contact ORTTA	
Division of Fellowships & Seminars Independent Study and Research	June	1
College Teachers	June	1
Constitutional Fellowships	June	1
Division of General Programs Museum & Historical Organizations	June	13
Youth Projects (Preliminary Narrative - April 1986)	June	13
Division of Research Programs: Texts Editions	June	2
Translations	June	2
Office of Challenge Grants	May	1
Office of Preservation	June	1

## National Research Council

Research Associateship Postdoctoral Awards	April	15
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## National Aeronautics & Space Administration

Airborne Astronomy Program

Open

### NONFEDERAL

American Cancer Society, Inc.		
Regular Clinical Fellowships	July	1
Clinical Oncology Career Development Award (Letter of Intent - June 15, 1986)	August	1
American Chemical Society - Petroleum Research Fund Grants-in-Aid	No	Deadline
American Nurses' Foundation Research Grants	June	1
American Philosophical Society Grants-in-Aid	Various--	Contact ORTTA
American Veterinary Medicine Foundation	August	1
Bedding Plants Foundation, Inc.	May	1
Bosch Foundation Fellowship Program	No	Deadline
Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)	No	Deadline
Carnegie Corporation - Education Grants	No	Deadline
Center for Field Research (Earthwatch) Latin America Field Research Grants	No	Deadline
Council for International Exchange of Scholars	June	15
Edna McConnell Clark Foundation	No	Deadline
Engineering Foundation (Pre-proposals)	No	Deadline
Exxon Education Foundation - Grants for Curriculum and Teaching and Management of Higher Education Programs	Open	
Gas Research Foundation Telephone contact or letter of inquiry prior to submission of formal proposal	No	Deadline
German Marshall Fund Short-Term Travel Awards	No	Deadline
Graham Foundation Grants on Contemporary Architecture, Planning and Study of Urban Design	June	1
International Foundation of Employee Benefit Plans Postdoctoral Grants-in-Aid	Open	
Kellogg Foundation Expanding Opportunities for Adult Continuing Education	Continuous	
Health Promotion and Disease Prevention Programs	Continuous	
Coordinated, Cost-Effective Health Service Programs	Continuous	
Improving Human Well Being Through Productive Agriculture	Continuous	
Fostering Leadership Capacity	Continuous	
Leukemia Society of America, Inc. Short-Term Scientific Exchange Award	July	1
Presidents' Research Development Award	July	1
Scholarship, Special Fellowship, and Fellowship Grants	September	1
MacArthur Foundation International Security Program	Open	
March of Dimes Birth Defects Foundation Basil O'Connor Starter Research Grants	Continuous	
Reproductive Hazards in the Workplace	June	1

Clinical Research Grants (300 word abstract due prior to May 15 to receive application form)	August	1
Basic Research Grants	October	1
Mathers Charitable Foundation	Continuous	
Metropolitan Life Foundation	No Deadline	
Minnesota Humanities Commission Small Grant	No Deadline	
Minnesota Medical Foundation	June	1
National Dairy Council Nutrition Research Grants Program - Letter of Intent	May	1
National Geographic Society Grants-in-Aid	No Deadline	
Research Corporation (Recommend submission 60 to 120 days prior to agency reviews in October, February and May)	No Deadline	
Retirement Research Foundation	May	1
Rockefeller Foundation Research on the Genetic Engineering of Rice	Open	
Sigma XI - Grants-in-Aid of Research	May	1
Alfred P. Sloan Foundation	No Deadline	
Spencer Foundation Education Research	May	1
Technicon Instruments Corporation Grants for Research in Biomedical and Industrial Instrumentation - Pre-proposals	No Deadline	
Thrasher Research Fund Grants in Nutrition, Infectious Diseases, Health Promotion	No Deadline	
University Genetics Company (UGEN)	No Deadline	
Villers Foundation	No Deadline	

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.



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# ORADDC Newsletter

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## Patents/Publications: How They Are Alike and How They Differ

The timing of patents and publications, which are written descriptions of scientific research, was discussed in a previous issue of this Newsletter. Another related issue of concern to faculty inventors is how much rewriting or additional writing of a manuscript submitted as an invention disclosure will be required in order to file a patent application.

Research usually begins with a broad observation which is continually refined as work progresses until the very best method is found. A patent application is in a sense the opposite. From the "best mode," the parameters are broadened to include the entire range in which the invention operates. For example, experimentation shows that a ratchet is the very best component, but a screw or nail will work also. The patent application ought to be broad enough to include all three, so that a potential infringer cannot easily avoid the patent. The faculty inventor does not need to investigate every parameter, however. Often alternatives have been tested early in the research. Therefore, it is not necessary to think about broadening the scope of coverage before submitting a disclosure to the Office of Patents and Licensing.

Papers are written for one's peers. Patent applications are written first for the Patent Examiner, and secondarily for the judge and jury who may need to be able to understand the invention during the course of a law suit. That means: no jargon, no abbreviations, no shorthand and especially no replacement of Materials and Methods with a reference to a previous publication. It is helpful if the inventor does this translation, but not necessary if the background material is available. The Office of Patents and Licensing and outside patent counsel will assist in the preparation of the application.

Therefore, send a first draft of a manuscript. A first draft invariably has all the data and the results. The transition to final draft usually involves more elegant phrasing, better drawings and a more thoughtful discussion. None of those is at all important in a patent application, which just simply and clearly lays out the invention, how to make it and how to use it. You do not even need to know how or why it works. While the author polishes the manuscript, the patent attorney can be writing the application.

In summary, when submitting a manuscript to the Office of Patents and Licensing as an invention disclosure, send it as soon as possible, not worrying about completeness in a patent sense. Staff will determine what additional material is needed and in all likelihood the additional work required by the faculty member should be minimal.

**"Reminder" -- Revised Application Requirements For All NIH Proposals (New, Continuations, Renewals) Involving Laboratory Animals**

Effective January 1, 1986, NIH incorporated revised application instructions for all proposals submitted which involve use of laboratory animals. It is imperative that the below noted information be contained in such proposals or the review procedure may be delayed: a) identification of the species and approximate number of animals to be used; b) rationale for involving animals, and for the appropriateness of the species and numbers to be used; c) a complete description of the proposed use of the animals; d) assurance that discomfort and injury to animals will be limited to that which is unavoidable in the conduct of scientifically valuable research, and that analgesic, anesthetic, and tranquilizing drugs will be used where indicated and appropriate to minimize discomfort and pain to animals; and e) a description of any euthanasia method to be used.

Public Health Service (PHS) has indicated that there are no plans to revise the application kits to include these instructions at this time.

**Animal Certification Policy To Be Stringently Enforced**

Various staff of NIH have indicated that awards will be delayed if the proper animal usage certification is not received by the awarding agency within the 60 day timeframe established under the guidelines implemented January 1, 1986.

Accordingly, in order to allow the University's Institutional Animal Care and Use Committee to respond in a timely manner, it is imperative that those investigators submitting proposals involving the use of laboratory animals send the completed BA 22 form concurrent with the proposal. Questions relevant to the BA 22 form should be directed to Research Animal Resources, 624-9100.

**NIH, Office For Protection From Research Risks Recommendations**

Dr. Charles Mac Kay, NIH, OPRR has recommended that investigators using warm blooded animals in their research projects read an article in the Journal of American Veterinary Medical Association, Vol. 188, #3, February 1986 regarding the appropriate use of animals and euthanasia. NIH felt that this article would aid investigators in complying with the new guidelines required for applications involving laboratory animals.

**NIH, Regional Workshop on the Humane Care and Use of Laboratory Animals By Awardee Institutions**

NIH, Office for Protection From Research Risks, has scheduled a workshop relevant to the "Public Health Service Policy on the Humane Care and Use of Laboratory Animals by Awardee Institutions" for June 10-11, 1986 in Chicago, Illinois. Interested parties should contact Sue Korienck or Bettie Cleveland, Conferences and Institutes, 912 South Wood Street, Chicago, Illinois 60612 or call same at (312) 996-8025.

## Cancer Education Grants

Until further notice the National Cancer Institute has suspended acceptance of new (type 1) or competing continuation (type 2) applications for Cancer Education Grants (R25). This announcement should not be construed as an announcement of either the total or permanent termination of the program.

## Revised Policy Issued By NHLBI For Clinical Investigator (K08) and Physician Scientist Awards (K11)

In May 1985, the National Heart, Lung, and Blood Institute (NHLBI) announced the availability of competitive renewals of Clinical Investigator and Physician Scientist Awards (NIH Guide for Grants and Contracts, Vol. 14, No. 6, May 24, 1985). Subsequently, experience has demonstrated that the initial 5-year period of support provided by the awards is sufficient for the development of awardees into independent investigators. Accordingly, NHLBI will no longer accept applications for "competitive renewal" under these awards. Current awardees should refer questions relevant to this change to one of the following NHLBI Program Staff: 1) Fann Harding, Ph.D., Division of Blood Diseases and Resources, (301) 496-1817; 2) Max A. Heinrich, Jr., Ph.D., Division of Heart and Vascular Diseases; (301) 496-1724; and 3) Joan Wolk, Ph.D., Division of Lung Diseases, (301) 496-7668.

## Institutional NRSA Training Grant Guidelines Reflect "Administrative" Refinement

The National Research Service Award (NRSA) program funds the preparation of qualified individuals for careers in biomedical and behavioral research. The primary considerations in evaluating plans for research training are the scientific merit of the proposed program (trainee, sponsor, and content) and the projected needs for laboratory and/or clinical investigators in particular areas of research. Within the framework of this longstanding commitment to excellence and relevance, it is important that attention also be given to recruiting individuals from minority groups that now are underrepresented nationally in the biomedical and behavioral sciences. Toward that end, the National Institutes of Health (NIH) is refining its administrative guidelines for institutional NRSA's (training grants) as follows:

- 1) The proposed application must contain a plan for the recruitment of trainees including a description of steps to be taken for recruitment of individuals from underrepresented minority groups;
- 2) Renewal applications for awards made under this revision are to include cumulative information on the subsequent career development of all trainees, including information about their minority status;
- 3) Initial review groups will be asked to take an additional step of commenting on applicant's plans for recruitment of minority individuals into productive research careers. Such comments will be summarized by the executive secretary as an administrative note within the summary statement. Review group comments will address accomplishments as well as plans when dealing with renewal application for award made under revised guidelines;
- 4) The National Advisory Councils/Boards and the NIH staff now will be asked to include the executive secretary's administrative note among the information they consider in their efforts to foster training programs that are of high quality, that are strongly relevant to the NIH mission, and that

actively seek candidates from across the full spectrum of eligible individuals.

### **NSF Solicits Biotechnology Initiative**

The National Science Foundation (NSF) Engineering Directorate's Biotechnology Program, in response to the announcement that NSF "is promoting the use of living systems to make economically important substances," is encouraging multidisciplinary research teams to try to solve these problems. Funding of up to \$500,000 per year will be provided for up to five years for research teams to advance this country's capability in engineering biotechnology and to provide training for biotechnologists of the future.

The emphasis of the initiative is on synthesis of economically important substances by living systems. NSF notes that manufacturing techniques to produce biologically active substances are in the early stages of development and have limitations that the NSF's new initiative is trying to overcome. The Biotechnology Program's first panel review is scheduled for June and researchers are encouraged to contact Fred Heineken, Biotechnology Program Director at (202) 357-9545. A more detailed program description is available from ORTTA by calling 376-7689.

### **Presidential Young Investigator Awards (NSF)**

The National Science Foundation has announced the competition for the next round of Presidential Young Investigator Awards. The awards support young science and engineering faculty. There are two categories of nominations:  
**Faculty Awards:** Institutions may nominate current or prospective junior faculty members who hold or have been offered tenure track positions.  
**Prefaculty Awards:** Institutions may nominate promising graduate students and recent doctorates in line for tenure track jobs. The application deadline is July 1. Inquires regarding this program can be directed to Dr. Fred Oettle, (202) 357-9466 or Mary Bergaas at 373-2784.

### **Additional Funding For NSF Engineering Sponsored Programs**

National Science Foundation's Directorate for Engineering is offering additional funding for investigators who wish to include women, minority and physically handicapped undergraduate or secondary school students as research assistants on engineering sponsored projects. Supplemental funding of up to \$5,000 per student may be requested for up to two students per grant. Additional funds in excess of \$5,000 may be requested, if necessary to provide or modify special equipment or other services required specifically for participation of physically handicapped individuals. The equipment must be specifically related to the research work and not for general assistance. For additional information, contact Mary Bergaas at 373-2784 or at NSF, Mrs. Mary Poats at (202) 357-9671.

## **Fulbright Teacher Exchange Program**

The United States Information Agency has announced details of the 1987-88 Fulbright Teacher Exchange Program. The Teacher Exchange Program involves a one-on-one exchange for teachers at the elementary, secondary and postsecondary levels with suitable teachers overseas. The 1987-88 overseas exchange programs will involve Canada, the United Kingdom, France, The Federal Republic of Germany, Belgium/Luxembourg, Denmark, Norway, Switzerland, Columbia, and Argentina. The number of exchanges available and the eligibility requirements vary by country. The program also provides opportunities for teachers to participate in summer seminars from three to eight weeks in length. During the summer of 1987, seminars will be held in Italy and The Netherlands. Applications will be available in the summer. The deadline for receipt of completed applications is October 15, 1986. For further information, write: Fulbright Teacher Exchange Program, E/ASX, United States Information Agency, 301 Fourth Street, SW, Washington, DC 20547. Brief descriptions of the programs are available from Suzanne Derby in the Office of International Programs, 373-3793.

## **GRI Announces Basic Research Contract Opportunities**

During 1986 and 1987, the Gas Research Institute (GRI) will solicit proposals in several specific areas of basic research important to the U.S. natural gas industry. GRI is a private, not-for-profit organization that plans, manages, and develops financing for cooperative R&D programs in gaseous fuels and their use. The research program is designed to benefit the regulated natural gas industry and gas consumers nationwide. Approximately \$4 million in annual funding has been allocated for these research areas. A listing of the specific research areas and the planned timing of the proposal request is available from ORTTA by calling 376-7689.

## **New Funding Priorities of the Northwest Area Foundation**

In 1985, the Northwest Area Foundation underwent an evaluation of its programs and has now released information on its new funding priorities. These include economic development and community revitalization, environment and technology, leadership, and health and social services. Urban and rural strategies will also be considered, as well as economic development, applied research projects, and programs that establish models that focus on economic dislocation. A profile of the foundation and information on application procedures is available ORTTA by calling 376-7353.

## **Correction**

The column headings on the proposal and award tables that were presented in the April 1986 issue of the ORTTA Newsletter were inadvertently reversed on the final copy. Therefore the information is being presented again with the correct headings. The ORTTA apologizes for the confusion this may have caused readers of this Newsletter.

### AWARDS PROCESSED

Source of Support	FY 1986 (July - January)		FY 1985 (July - January)		Percent Change	
	Number	Amount	Number	Amount	Number	Amount
Federal	647	\$70.8	523	\$56.5	23.7	25.3
State	112	4.2	94	3.1	19.1	35.5
Business & Industry	175	5.6	136	5.7	28.7	-1.8
Foundations & Assn.	289	8.8	235	6.3	23.0	39.7
Other Private Sponsors	118	3.9	88	2.3	34.1	69.6
	1,341	\$93.4	1,076	\$73.9	24.6	26.4

### PROPOSALS SUBMITTED

Source of Support	FY 1986 (July - January)		FY 1985 (July - January)		Percent Change	
	Number	Amount	Number	Amount	Number	Amount
Federal	913	\$188.2	834	\$155.5	9.5	21.0
State	70	2.9	65	2.7	7.7	7.4
Business & Industry	151	7.8	141	9.5	7.1	-17.9
Foundations & Assn.	401	22.8	405	20.1	-1.0	13.4
Other Private Sponsors	118	9.7	72	4.1	63.9	136.6
	1,653	\$231.5	1,517	\$191.9	9.0	20.6

### SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORTTA CONTACT NUMBERS FOR DEADLINE/PROGRAM INFORMATION ARE 376-7358 OR 376-7689.

### FEDERAL

#### National Institutes of Health

#### NIH

NIH	Fogarty International Center for Advanced Study in Health Sciences - various programs	Various	
NIH	Research Grants, New	June	1
NIH	First Independent Research Support and Transition Award (FIRST)	June	1
NIH	Research Career Development Awards	June	1
NIH	Individual Postdoctoral Fellowships	June	1
NIH	Support of Scientific Meetings	June	1

NIH	Physician Scientist Award	June	1
NIH	Research Grants, Renewals	July	1
NIH	Fogarty International Center Senior International Fellowships	September	10
NIH	National Research Service Awards for Senior Fellows	September	10
NIH	National Research Service Awards for Individual Postdoctoral Fellows	September	10
NIH	National Research Service Award Institutional Grants	September	10
NIH	Institutional Training Programs	September	10
<b>NCI</b>			
NCI	Outstanding Investigators Grant	May	15
NCI	Cancer Education Program	June	1
NCI	Comprehensive Minority Biomedical Program - Minority Satellite Supplement	June	1
NCI	Comprehensive Minority Biomedical Program - Minority Investigator Supplement	June	1
NCI	Multinuclear Magnetic Resonance Imaging and Spectroscopy	June	1
NCI	Studies of Dose Fractionation and Volume Late Effects in Normal Tissues Using Animal Models	June	1
NCI	Studies on Feline Retroviruses	June	1
NCI	Small Grants Program for Epidemiology	June	1
NCI	Interactions Among Micronutrients in the Prevention of Experimental Mammary Cancer	June	1
NCI	Mechanisms of Site Specific Metastasis in Prostate Cancer	June	1
NCI	Characterization of Multidrug Resistant Human and Other Mammalian Tumor Cell Lines	June	1
NCI	Biological Role of Exocyclic Nucleic Acid Derivatives in Carcinogenesis	June	1
NCI	Prevention and Cessation of Use of Smokeless Tobacco	June	1
NCI	CA-86-09 Inheritance and Markers of Colorectal Cancer and Polyps	June	15
NCI	86-CA-11 Increasing Mammography and Breast Palpation	July	14
NCI	86-CA-07 The Transformation Mechanisms of Human Polyomaviruses	July	15
NCI	CA-86-06 Cooperative Human Tissue Network	July	15
<b>NEI</b>			
NEI	86-EY-03 Construction, Alteration, and Renovation, and Instrumentation	May	15
NEI	Small Grants Program for Pilot Projects	June	1
NEI	NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes	June	1
<b>NHLBI</b>			
NHLBI	86-HL-17-P Clinical Centers for a Trial of Dietary Intervention in Children with Elevated Low Density Lipoprotein Levels to Assess Feasibility, Acceptability, Efficacy and Safety	May	15



NHLBI	86-HL-19-P Coordinating Centers for a Trial of Dietary Intervention in Children with Elevated Low Density Lipoprotein Levels to Assess Feasibility, Acceptability, Efficacy and Safety	May	15
NHLBI	86-HL-10-B Prevalence and Consequences of Hepatitis Delta Infection In Hemophilia (NIAID)	May	15
NHLBI	Research Career Development Programs		
	Research Career Development Award	June	1
	Clinical Investigator Award	June	1
	Physician Scientist Award	June	1
	Special Emphasis Research Career Award: Diabetes Mellitus	June	1
NHLBI	Research Career Development Award: Basic Science Related to the Respiratory System	June	1
NHLBI	Demonstration and Education Research in Cystic Fibrosis	June	1
NHLBI	Cardiovascular Studies in Particular Animals	June	1
NHLBI	Blood Cell Surface Antigens Related to Disease	June	1
NHLBI	Molecular Approaches to Myocardial Research	June	1
NHLBI	86-HL-20-H, Bypass Angioplasty Revascularization Investigation (BARI) Clinical Units	July	15
NHLBI	Research Training and Development Area:		
	National Research Service Award Programs		
	Institutional Research Training Grant	September	10
	Individual Postdoctoral Fellowship	September	10
	Senior Research Fellowship	September	10
NHLBI	86-HL-07-B, Comprehensive Sickle Cell Centers	September	15
NHLBI	Transfusion Medicine Academic Award	October	15
<b>NIA</b>			
NIA	Alzheimer's Disease Patient Registry (ADPR)	May	28
NIA	Aging and Visual Perception		
	Postdoctoral Fellow	June	1
	Program Project	June	1
NIA	Health Behaviors and Aging: Behavioral Geriatrics Research	June	1
NIA	NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	June	1
NIA	NIAID/NIADDK/NICHHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	June	1
NIA	Complementary Training Awards for Research on Aging	June	1
NIA	86-AG-02, Forecasting Life Expectancy and Active Life Expectancy	September	25
<b>NIADDKD</b>			
NIADDKD	Minority Investigator Research Enhancement Award	Open	
NIADDKD	Disease Mechanisms in Immunologic Renal Disease	June	1
NIADDKD	NINCDS/NIAID/NICHHD/NIGMS/NEI/NIEHS/NIA/NIAAA/NIMH Biological Mechanisms of Omega-3 Fatty Acids in Health and Disease States	June	1
NIADDKD	Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	June	1
NIADDKD	86-AM-01 Digestive Diseases Core Centers	June	16
NIADDKD	Kidney and Urological Research Centers (Letter of intent - January 15)	July	15

**NIAID**

NIAID	Minority Investigator Research Enhancement Program	Open	
NIAID	Prevalence and Consequences of Hepatitis Delta Infection in Hemophilia (NHLBI)	May	15
NIAID	Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
	Career Development	June	1
	Physician Scientist	June	1
	Clinical Investigator	June	1
	Postdoctoral Fellow	June	1
NIAID	Pharmaceuticals from the Sea	June	1
NIAID	Program Projects on the Biology of Immune System - Program Project Grants	June	15
	(Letter of intent - March 15)		
	Center Grants	November	15
	(Letter of intent - August 15)		
NIAID	86-AI-08 Sexually Transmitted Disease Research Units	July	15
NIAID	Asthma and Allergic Diseases Centers	September	15
	(Letter of intent - June 15)		
NIAID	86-AI-07 Program Projects on Transplantation Immunology	September	15

**NICHD**

NICHD	86-HD-02, The Pathogenesis of Sudden Infant Death Syndrome	May	23
NICHD	86-HD-03, Transdermal Administration of Contraceptive Drugs	July	15
NICHD	86-HD-04, Families of Retarded Children and Adults	July	15

**NIDR**

NIDR	Small Grant Program	Open	
NIDR	Large Grant Support Program	June	1
NIDR	Minority Research Supplement Program	July	1
NIDR	Research Centers in Oral Biology	December	1

**NIGMS**

NIGMS	Cellular and Molecular Basis of Disease Research	June	1
NIGMS	Physiology and Biomedical Engineering	June	1
NIGMS	Genetic Research	June	1
NIGMS	Pharmacological Sciences	June	1

**NINCDS**

NINCDS	Clinical Investigator Development Award	June	1
NINCDS	Multidisciplinary Research Centers for the Study of Neuro-Genetic Disorders of Infancy and Childhood (P50)	June	1
NINCDS	Research Grants on the Relationship Between Seizures and Sleep	June	1

## NIOSH

NIOSH	Research and Demonstrations Relating to Occupational Safety and Health (CDC):		
	Research Grants	June	1
	Demonstration Grants	June	1
	Program Project Grants	June	1
	Special Emphasis Research Career Award	July	1
	Small Grant Program	July	1
NIOSH	Engineering Control Systems Research (CDC)		
	New Applications	June	1
	Career Development, Small Grants, and Competing Renewals	July	1

## NLM

NLM	Investigator-Initiated Research Grants/New Investigator Research Awards	June	1
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## Division of Research Resources

DRR	Small Grants Program for Pilot Projects - Biomedical Research Technology Program	June	1
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## Alcohol, Drug Abuse, and Mental Health

ADAMHA, Small Grants Program	Open	
ADAMHA, Research Grants, New	June	1
ADAMHA, Research Scientist Development Award	June	1
ADAMHA, Research Scientist Award	June	1
ADAMHA, Institutional Research Training Grants, NRSA	September	10
NIAAA, Research on Children of Alcoholics	June	1
NIAAA, Alcohol Resource Center Grants	June	1
NIAAA, Alcohol Research Grants	June	1
NIAAA, New Investigator Research Awards	June	1
NIAAA, Research Grants on Alcohol-Related Performance Effects and Traumatic Injury	June	1
NIDA/NIAAA, Community Prevention Research in Alcohol and Drug Abuse	June	1
NIDA, Drug Abuse Prevention Research	June	1
NIMH, Research Support Programs	June	1
Small Grant Program (with NIAAA and NIDA)	Open	
Grants for Mental Health Service System Research	June	1
Geriatric Mental Health Academic Awards	June	1
Preventive Intervention Research Centers (PIRC)	June	1
Rape Center	June	1
Prevention Research Branch	June	1
New Investigator Research Award (NIRA) in Prevention (with NIAAA and NIDA)	June	1
New Investigator Research Award in Mental Health Services	June	1
Clinical Research Centers on Psychopathology of the Elderly	June	1
Clinical Investigator Award	June	1
Physician Scientist Award	June	1
Autism and Related Behavioral Disorders (with NINCDS)	June	1
Studies on Obesity (with NIH Institutes and NIDA)	June	1

Research on Mental Illness in Nursing Homes	June	1
AA-85-02, Research Grants on the Prevention of Alcohol, Drug Abuse, and Mental Health (ADM) Disorders at the Worksite (with NIAAA and NIDA)	June	1
Service System and Economic Research Programs	June	1
MH-86-03, Assessment of Mental Health Problems in Disaster Victims	June	1
MH-86-05, Prevention Research on Mutual Support Approaches with Bereaved Populations	June	1
MH-86-07, Research on Family Stress and the Care of Alzheimer's Disease Victims	June	1
Support for Child and Adolescent Mental Health Research and Research Training: Research Grants	June	1
MH-86-06, Research on Method for Studying Mental Health Service Systems	June	1
MH-86-08, Research Reimbursement Issues in Mental Health Services Delivery	June	1
NIMH/NIDA, MH-86-16, Acquired Immunodeficiency Syndrome Research Centers	October	1

#### Office of Population Affairs

Opportunities for Research on Adolescent Family Life	June	1
Opportunities for Research in Family Planning Service Delivery Improvement	June	1

#### Health Resources and Services Administration

Geriatric Education Center	May	31
National Research Service Awards - Institutional Grants	June	1
First Independent Research Support and Transition Award (FIRST)	June	1
Nurse Training Improvement Special Project Grants	July	1
Nurse Practitioner and Nurse Midwifery Program Grants	July	1
Maternal and Child Health Projects Research	August	1

#### National Center for Health Services Research

Conference Grants (Preliminary submission required prior to formal application)	Open	
Small Grants Program	Open	
Extramural Research	June	1
Resource on Health Care Technology Assessment	June	1

#### Department of Education

Fund for the Improvement of Postsecondary Education Preapplications	March	4
Final Applications	June	4
National Institute for Handicapped Research Innovative Grants	until July	1
Handicapped Research and Demonstration Projects	June	11

Rehabilitation Services Administration		
Rehabilitation Long-Term Training Program	June	15
State Vocational Rehabilitation Unit		
Inservice Training Program	June	15
Educational Research - Unsolicited Proposals	July	31

### National Science Foundation

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Program	Open	
Teacher Enhancement and Informal Science Education		
Presidential Awards for Excellence in Science and Mathematics Teaching	Open	
Instrumentation for Materials Research Program	Open	
U.S.-France Cooperative Science. (Brochure NSF 83-73).		
U.S. Antarctic Research. For field work in the 1987-1988 austral summer or in 1988 winter, or for research not involving field work beginning as early as November 1986. Mr. Guy Gurthridge, Division of Polar Programs (357-7817).	June	1
U.S.-Japan Cooperative Science. (Brochure NSF 81-58). Proposals for cooperative research and joint seminar activities are accepted in May each year. Division of International Programs (357-9558).	June	1
U.S.-Italy Cooperative Science. (Brochure NSF 83-73). Proposals for cooperative research projects and joint seminars. Division of International Programs (357-7554).	June	1
U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for short-term visits only to plan scientific research or carry-out short, self-contained research activities. Division of International Programs (357-7554).	June	15
U.S.-Korea Cooperative Science. (Brochure NSF-83-50). Proposals for long-term visits and cooperative research only. Dr. Gerald Edwards, Division of International Programs (357-9537).	July	1
U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). Philippine component only. Proposals for long-term visits, cooperative research, seminars and workshops. Dr. Gerald Edwards, Division of International Programs (357-9537).	July	1
Ship Operations. (Brochure NSF 84-63). "Instructions for Preparation of Proposals, Requesting Support for Oceanographic Facilities." Mr. John McMillan, Division of Ocean Sciences (357-7837).	July	1
Shipboard Technicians. (Brochures NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	July	1

Small Business Innovation Research. Mr. Roland Tibbetts or Mr. Richie Coryell, Division of Industrial Science and Technological Innovation (357-7527).	July	14
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	August	1
Special Research Initiation Awards for New Investigators in Information Science and Technology. (Brochures NSF 81-34 and 81-69). Dr. Charles Brownstein, Division of Information Science and Technology (357-9572).	August	6
Oceanographic Instrumentation. (Brochure NSF 84-63). "Instruction for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	September	1
Shipboard Scientific Support Equipment. (Brochure NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Dr. Richard West, Division of Ocean Sciences (357-7837).	September	1
Arctic Research. Mr. Guy Guthridge, Division of Polar Programs (357-7766).	September	1
U.S.-United Kingdom Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September	15
U.S.-Austria Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-9700).	September	15
U.S.-Federal Republic of Germany Cooperative Science. (Brochure NSF 83-73). Semi-annual deadline for proposals for joint research and seminars. Division of International Programs (357-9700).	September	15
Cooperative Science Activities with Denmark, Iceland, the Netherlands, and Norway. (Brochure NSF 83-73). Division of International Programs.	September	15
U.S.-Finland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September	15
U.S.-Sweden Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September	15
U.S.-Switzerland Cooperative Science. (Brochure NSF 85-42). Dr. Harry Hedges (357-7349) or Dr. Robert Minnick (357-7345), Division of Computer Research.	September	15

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Biological Oceanography, Chemical Oceanography, Marine Geology and Geophysics, Physical Oceanography. Dr. Robert Wall, Division of Ocean Sciences (357-7924).	June	1
Ocean Drilling Program, U.S. Science. Dr. Garrett Brass, Division of Ocean Sciences (357-7924).	June	1
Minority Research Planning Grants, MRI Program Director (357-7350)	June	2
Ecology. (Brochure NSF 84-68). Dr. Patrick Flanagan, Division of Biotic Systems and Resources (357-9734).	June	16
Ecosystem Studies. (Brochure NSF 84-68). Dr. James Gosz, Division of Biotic Systems and Resources (357-9596).	June	16
Population Biology and Physiological Ecology. (Brochure NSF 84-68). Dr. James Collins, Division of Biotic Systems and Resources (357-9728).	June	16

Systematic Biology. (Brochure NSF 84-68). Dr. James Rodman, Division of Biotic Systems and Resources (357-9588).	June	16
Cell Biology. (Brochure NSF 85-11). Dr. Arnold Kaplan or Dr. Gertrude Kasebekar, Division of Cellular Biosciences (357-7474).	July	1
Cellular Physiology. (Brochure NSF 85-11). Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (357-7377).	July	1
Developmental Biology. (Brochure NSF 85-11). Dr. Joseph Mascarenhas, Division of Cellular Biosciences (357-7989).	July	1
Eukaryotic Genetics. (Brochure NSF 85-11). Dr. DeLill Nasser, Division of Cellular Biosciences (357-0112).	July	1
Regulatory Biology. (Brochure NSF 85-11). Dr. Lewis Greenwald or Dr. Elvira Doman, Division of Cellular Biosciences (357-7975).	July	1
Social and Developmental Psychology. (Brochure NSF 84-72). Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (357-9485).	July	1
Molecular and Cellular Neurobiology. (Brochure NSF 84-72). Dr. Stephen Morris, Division of Behavioral and Neural Sciences (357-7471).	July	15
Psychobiology. (Brochure NSF 83-57). Dr. Fred Stollnitz or Kathie Olsen, Division of Behavioral and Neural Sciences (357-7949).	July	15
Developmental Neuroscience. (Brochure NSF 84-72). Dr. Frank Collins, Division of Behavioral and Neural Sciences (357-7042).	July	15
Integrative Neural Systems. (Brochure NSF 84-72). Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (357-7040).	July	15
Sensory Physiology and Perception. (Brochure NSF 84-72). Dr. Carol Welt, Division of Behavioral and Neural Sciences (357-7428).	July	15
Climate Dynamics. Dr. Thomas Crowley, Division of Atmo- spheric Sciences (357-9892).	August	1
Linguistics. (Brochure NSF 84-72). Dr. Paul Chapin, Division of Behavioral and Neural Sciences (357-7696).		
Memory and Cognitive Processes. (Brochure NSF 84-72). Dr. Joseph Young, Division of Behavioral and Neural Sciences (357-9898).	August	1
Anthropology. (Brochure NSF 84-72). Dr. John Yellen or Dr. Stuart Plattner, Division of Behavioral and Neural Sciences (357-7804).	August	1
Decision and Management Science. Dr Robert Thrall (357-7569) or Dr. Vincent Covello (357-7417), Division of Social and Economic Science.	August	15
Economics. Dr. James Blackman, Dr. Daniel Newlon or Dr. Lynn Pollnow, Division of Social and Economic Science (357-9674).	August	15
Geography and Regional Science. Dr. Ronald Abler, Division of Social and Economic Science (357-7326).	August	15
History and Philosophy of Science. Dr. Ronald Overmann or Ms. Dorothy Greene, Division of Social and Economic Science (357-7913).	August	15
Law and Social Sciences Program. Felice J. Levine (357-9567)	August	15

Science in Developing Countries. Sub-Saharan Africa: Dr. Osman Shinaishin (357-9550); North Africa and Turkey: Mr. Francis Field (357-9402); South and West Asia: Dr. Osman Shinaishin (357-9402); East Asia: Dr. Gordon Hiebert (357-9537); and Latin America and Caribbean: Ms. Christine French (357-9563), Division of International Programs. September 1

U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). Indonesia, Malaysia, Singapore, Thailand. Dr. Gordon Hiebert, Division of International Programs September 1

\*NSF Proposals may be submitted for the following programs at any time of the year. It takes approximately six to nine months to process a proposal. Brochures indicated in parentheses may be ordered.

Division of Astronomical Sciences:

Astronomical Instrumentation and Development. Dr. G. W. Van Citters, Jr. (357-9793). \*

Extragalactic Astronomy. Dr. James Wright (357-7639). \*

Galactic Astronomy. Dr. Morris Aizenman, (Acting) (357-7620). \*

Solar Systems Astronomy. Dr. G. W. Van Citters, Jr. (Acting) (357-7620). \*

Stars and Stellar Evolution. Dr. Peter Pesch (357-7622). \*

Electromagnetic Spectrum. Dr. Vernon Pankonin (357-9696). \*

Division of Atmospheric Sciences:

Aeronomy. Dr. William Sharp (357-7619). \*

Atmospheric Chemistry. Dr. Jarvis Moyers (357-9657). \*

Experimental Meteorology. Dr. Stephan Nelson (357-9431). \*

Global Atmospheric Research. Ms. Pamela Stephans (357-9887). \*

Meteorology. Dr. Ronald Taylor (357-7624). \*

Solar Terrestrial. Dr. Dennis Taylor (357-7624). \*

Upper Atmospheric Facilities. Dr. Richard Behnke (357-7390). \*

Division of Behavioral and Neural Sciences:

Anthropology. Doctoral Dissertation Research (Brochure NSF 84-6). Ms. Mary Greene (357-7804). \*

Psychobiology. Small grants for psychobiological research. Dr. Fred Stollnitz (357-7949). \*

Division of Chemistry:

Synthetic Inorganic and Organometallic Chemistry. (Brochure NSF 83-57). Dr. Oren Williams (357-7499). \*

Chemical Analysis. (Brochure NSF 83-57). Dr. Henry Blount, III (357-7960). \*

Structural Chemistry and Thermodynamics. (Brochure NSF 83-57). Dr. William Harris (357-9826). \*

Chemical Physics. (Brochure NSF 83-57). Dr. William Cramer (357-7951). \*

Chemical Dynamics. (Brochure NSF 83-57). Dr. Richard Holder (357-7956). \*

Division of Computer Research:

Computer Systems Design. Dr. John Lehmann (357-7349). \*

Intelligent Engineering. Dr. Su-Shing Chen (357-7345). \*

Software Engineering. Dr. Bruce Barnes (357-7375). \*

Software Systems Science. Dr. Thomas Keenan (357-7375). \*

Theoretical Computer Science. Dr. Thomas Head (357-7375). \*

Special Projects. Mr. Lawrence Oliver (357-7375). \*



Division of Design, Manufacturing, and Computer Engineering:  
 Computer Engineering. Dr. Bernard Chern (357-7508). \*  
 Design Theory and Methodology. Dr. Susan Finger (357-7676). \*  
 Computer Integrated Engineering. Dr. Howard Moraff  
 (357-7676). \*  
 Manufacturing Systems. Dr. William Spurgeon (357-7676). \*  
 Automated and Systems Integration. Dr. Howard Moraff  
 (357-7676). \*

Division of Electrical, Communications, and Systems Engineering:  
 Quantum Electronics, Waves and Beams. Dr. James Aller  
 (357-9618). \*  
 Solid State and Microstructures. Dr. Donald Silversmith  
 (357-9618). \*  
 Communications Systems and Signal Processing. Mr. Elias  
 Schutzman (357-9618). \*  
 Systems Theory and Operations Research. Dr. Michael Polis  
 (357-9618). \*  
 Instrumentation, Sensing and Measurement. Mr. Norman Caplan  
 (357-9618). \*

Division of Information Science and Technology:  
 Information Science. (Brochure NSF 81-34). Dr. Joseph  
 Deken (357-9569). \*  
 Information Technology. (Brochure NSF 81-34). Dr. Harold  
 Bamford (357-9554). \*  
 Information Impact. (Brochure NSF 81-34). Dr. Laurence  
 Rosenberg (357-9592). \*

Division of International Programs:  
 U.S.-Korea Cooperative Science. (Brochure NSF 83-50). \*  
 Short-term visits only. Dr. Gerald Edwards (357-9537). \*  
 U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). \*  
 Excluding Philippines and Korea. Dr. Gordon Hiebert  
 (357-9537). \*  
 U.S.-India Cooperative Science. (Brochure NSF 82-86). \*  
 Dr. Osman Shinaishin (357-9402). \*  
 U.S.-Pakistan Cooperative Science. (Brochure NSF 82-49). \*  
 Dr. Osman Shinaishin (357-9402). \*  
 U.S.-China Cooperative Science. (Brochure NSF 82-50). \*  
 The program currently does not accept travel requests.  
 Mr. Alexander DeAngelis or Ms. Rose Bader (357-7993). \*  
 U.S.-Belgium Cooperative Science. (Brochure NSF 83-73). \*  
 Cooperative research projects, joint seminars (357-7554). \*  
 U.S.-Japan Program for Cooperation in Photoconversion and  
 Photosynthesis. (Brochure NSF 83-11). Letter-proposals  
 for visits up to two weeks in Japan to plan formal  
 research in cooperation with Japanese investigators in the  
 areas of photoconversion and photosynthesis (357-9558). \*  
 U.S.-Ireland Cooperative Science. (Brochure NSF 83-73). \*  
 Cooperative research projects and joint seminars  
 (357-7554). \*

Division of Materials Development and Research:  
 Instructional Materials Development; Materials and Methods  
 for Teacher Preparation; Applications of Advanced Tech-  
 nologies; Research in Teaching and Learning. (Brochure  
 NSF 85-10). For suggested target dates or other infor-  
 mation contact the Division (357-7452). \*

Division of Molecular Biosciences:

- Biochemistry. (Brochure NSF 84-79). Dr. Ira Wool,  
Dr. H. T. Huang, or Mrs. Estella Engel (357-7945). \*
- Biological Instrumentation. (Brochures NSF 84-79 and  
83-19). Dr. John Wooley (357-7652). \*
- Biophysics. (Brochure NSF 84-79). Dr. Arthur Kowalsky,  
Dr. Patricia Jost, or Ms. Brenda Flam (357-7777). \*
- Metabolic Biology. (Brochure NSF 84-79). Dr. W. van B.  
Robertson or Ms. Carter Kimsey (357-7987). \*
- Prokaryotic Genetics. (Brochure NSF 84-79). Dr. Philip  
Harriman (357-9687). \*

Division of Physics:

- Atomic, Molecular, and Plasma Physics. Dr. Rolf Sinclair  
(357-7997). \*
- Elementary Particle Physics. Dr. David Berley (357-9575). \*
- Intermediate Energy Nuclear Physics. Dr. Peter Riley  
(357-7992). \*
- Nuclear Physics. Dr. William Rodney (357-7992). \*
- Theoretical Physics. Dr. Boris Kayser (357-7979). \*

Division of Research Initiation and Improvement:

- Research in Undergraduate Institutions. (Brochure NSF 83-79).  
Proposals submitted through the RUI program are evaluated  
by the appropriate disciplinary programs in NSF. For more  
specific target dates and number of copies of proposals  
needed, contact the appropriate disciplinary program or for  
general information, contact Dr. Joseph Danek or Ms. Lola  
Roger (357-7456). \*
- Minority Research Initiation. (Brochure NSF 84-75). Dr.  
Roosevelt Calbert (357-7350). \*
- Facilitation Awards for Handicapped Scientists and Engineers.  
(Brochure NSF 84-62). Proposals for special equipment or  
assistance to facilitate research by the handicapped as  
part of NSF-supported projects. Ms. Lola Rogers (357-7552). \*
- Research Opportunities for Women. (NSF Brochure in press).  
Proposals submitted through the ROW program are evaluated  
by the appropriate disciplinary programs in NSF. For more  
specific target dates and number of copies of proposals  
needed, contact the appropriate disciplinary program or  
for general information contact Dr. Margaret Klein or Ms.  
Carol Erlebach (357-7734). \*

Division of Teacher Enhancement and Informal Science Education:

- Local and Regional Teacher Development; Leadership Activities  
for Precollege Teachers; Informal Science Education;  
Science and Mathematics Education Networks. (Brochure  
NSF 85-9). For suggested target dates for proposals for  
projects to be initiated during the latter part of the 1986  
calendar year, contact the Division (357-7073). \*

Programs in Other Divisions/Offices:

- Biological Research Resources. (Brochure NSF 84-68). Dr.  
James Edwards, Division of Biotic Systems and Resources  
(357-7475). \*
- Industry/University Cooperative Research Projects.  
(Brochure NSF 82-56). Dr. Frederick Betz (357-7785) or  
Mr. Alex Schwarzkopf (357-7527), Office of Cross-  
Disciplinary Research. \*

Industry/University Cooperative Research Centers. Mr. Robert Colton or Mr. Alex Schwarzkopf, Office of Cross-Disciplinary Research (357-7527). \*

Studies and Analyses. Mr. Richard Berry, Office of Studies and Program Assessment, Science and Engineering Education (357-7425). \*

Alternative Biological Resources. (Brochure NSF 84-40). This program is being terminated in fiscal year 1985. Interested persons should contact Dr. H. T. Huang, Division of Molecular Biosciences (357-9782) for suggestions of alternative programs to which their proposals may be submitted. \*

#### U.S. Department of Agriculture

Competitive Research Grants Program  
Soybean Various

Office of Grants and Program Systems  
FY 1986 Competitive Research Grant Program for Forest and Rangeland Renewables Resources May 15(est)

Cooperative State Research Service  
FY 1986 Rangeland Research Grants Program May 15(est)

#### U.S. Department of Commerce

National Bureau of Standards; Center for Manufacturing Engineering, Automated Manufacturing Research Facility (AMRF) Research Grants Program Open

#### U.S. Department of Defense

Strategic Defense Initiative Innovative Science and Technology Office Open

U.S. Air Force  
University Resident Research Program Open

#### U.S. Department of Energy

Office of Energy Research  
Special Research Grants Programs Open  
(For FY 1986 funding - deadline is April 15)

Advanced Coal Research Open

#### U.S. Department of Justice

Office of Juvenile Justice and Delinquency Prevention  
Research and Program Development Programs Open

National Institute of Justice  
Crime Prevention May 16

## Environmental Protection Agency

Environmental Biology	Open*
Environmental Health	Open*
Environmental Engineering	Open*
Environmental Air/Water Chemistry and Physics	Open*
Special Research Grants and Student Fellowship Program	Open*

\*Suggested closing date - February 15 and August 15

## National Endowment for the Arts

U.S./French Exchange Program: Deadline varies with Discipline	Various
Museum	
Special Projects	Open

## National Endowment for the Humanities

Division of Education Programs	
Improving the Preparation of Teachers of Humanities	Contact ORTTA
Division of Fellowships & Seminars	
Independent Study and Research	June 1
College Teachers	June 1
Constitutional Fellowships	June 1
Division of General Programs	
Museum & Historical Organizations	June 13
Youth Projects	June 13
(Preliminary Narrative - April 1986)	
Division of Research Programs: Texts	
Editions	June 2
Translations	June 2
Office of Preservation	June 1

## National Aeronautics & Space Administration

Airborne Astronomy Program	Open
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## Social Security Administration

Research Grants	June 13
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## NONFEDERAL

American Association of Retired Persons (AARP)	
Andrus Foundation	June 1
American Cancer Society, Inc.	
Regular Clinical Fellowships	July 1
Clinical Oncology Career Development Award	August 1
(Letter of Intent - June 15, 1986)	

American Chemical Society - Petroleum Research Fund		
Grants-in-Aid		No Deadline
American Council of Learned Societies		
Fellowships	(request for application)	September 24
	(receipt of application)	September 30
Research Fellowships	(request for application)	September 24
	(receipt of application)	September 30
Grants-in-Aid		December 15
Travel Grants for Humanities		July 1
		November 1
		March 1
Grants for Chinese Studies		Various
Grants for East European Studies		December 1
American Lung Association		
Research Training Fellowship		October 1
Pediatric Pulmonary Research Fellowship		October 1
Edward Livingston Trudeau Scholar Awards		October 1
Dalsemer Research Scholar Award		October 1
Career Investigator Award		October 1
Research Grants		November 1
American Nurses' Foundation		
Research Grants		June 1
American Philosophical Society		
Grants-in-Aid		Various
American Veterinary Medicine Foundation		August 1
Bosch Foundation Fellowship Program		No Deadline
Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)		No Deadline
Carnegie Corporation - Education Grants		No Deadline
Center for Field Research (Earthwatch)		
Latin America Field Research Grants		No Deadline
Council for International Exchange of Scholars		June 15
Council for Tobacco Research		
Research Grants		May 31
		November 30
Cystic Fibrosis Foundation		
Research Scholar		September 1
Research Fellowship		September 1
Research Grants		September 1
Clinical Fellowship		October 1
Student Traineeship		October 1
Deafness Research Foundation		July 15
Distilled Spirits Council of the US		August 1
Edna McConnell Clark Foundation		No Deadline
Engineering Foundation (Pre-proposals)		No Deadline
Epilepsy Foundation of America		
Research Grants		September 1
Clinical Research Fellowship		September 1
Exxon Education Foundation - Grants for Curriculum and Teaching and Management of Higher Education Programs		Open
Parker B. Francis Foundation		
Fellowships in Pulmonary Research		September 15
Gas Research Institute		
Telephone contact or letter of inquiry prior to submission of formal proposal		No Deadline

German Marshall Fund		No	Deadline
Short-Term Travel Awards			
Graham Foundation			
Grants on Contemporary Architecture, Planning and Study of Urban Design		June	1
John A. Hartford Foundation			
Geriatric Care Faculty Development Award		May	30
General Grant Program		Open	
Health Care Financing Program		Open	
International Foundation of Employee Benefit Plans			
Postdoctoral Grants-in-Aid		Open	
Robert Wood Johnson Foundation			
Clinical Nurse Scholarships Program		July	1
Kellogg Foundation			
Expanding Opportunities for Adult Continuing Education		Continuous	
Health Promotion and Disease Prevention Programs		Continuous	
Coordinated, Cost-Effective Health Service Programs		Continuous	
Improving Human Well Being Through Productive Agriculture		Continuous	
Fostering Leadership Capacity		Continuous	
Leukemia Society of America, Inc.			
Short-Term Scientific Exchange Award		July	1
Presidents' Research Development Award		July	1
Scholarship, Special Fellowship, and Fellowship Grants		September	1
MacArthur Foundation			
International Security Program		Open	
March of Dimes Birth Defects Foundation			
Basil O'Connor Starter Research Grants		Continuous	
Reproductive Hazards in the Workplace		June	1
Clinical Research Grants		August	1
(300 word abstract due prior to May 15 to receive application form)			
Basic Research Grants		October	1
Mathers Charitable Foundation		Continuous	
Metropolitan Life Foundation		No	Deadline
Minnesota Humanities Commission			
General Grants	(application draft)	August	15
	(final draft)	September	5
Media Grant	(application draft)	August	15
	(final draft)	September	5
Small Grant		Continuous	
Minnesota Medical Foundation		June	1
Muscular Dystrophy			
Grant-in-Aid Program	(request applic. from agency)	May	31
	(final application)	June	30
Fellowship Program	(request application)	May	31
	(final application)	June	30
Clinical Research Grant Program	(request application)	May	31
	(final application)	June	30
National Geographic Society			
Grants-in-Aid		No	Deadline
National Multiple Sclerosis Foundation			
Research Grants		August	1
Orthopaedic Research and Education Foundation		September	15
Research Corporation			
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)		No	Deadline

Rockefeller Foundation	
Research on the Genetic Engineering of Rice	Open
Runyon/Winchell Cancer Fund	August 15
	December 15
	No Deadline
Alfred P. Sloan Foundation	
Technicon Instruments Corporation	
Grants for Research in Biomedical and Industrial	
Instrumentation - Pre-proposals	No Deadline
Thrasher Research Fund	
Grants in Nutrition, Infectious Diseases, Health	
Promotion	No Deadline
University Genetics Company (UGEN)	No Deadline
Villers Foundation	No Deadline
Wenner-Gren Foundation for Anthropological Research	
Postdoctoral Fellowships	June 1

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

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Transfer Administration  
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# ORA RDC Newsletter

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## What Constitutes a Publication?

Questions coming into the Office of Patents and Licensing often start out "Have I lost my patent rights? I sent a manuscript describing my invention, to the publisher last week." Or "Can I still get a patent? I gave a seminar on my research last year." From previous articles in the Newsletter, you now know that publication can void foreign patent rights and starts a one-year clock running in the United States. But sometimes what you fear is a publication is not publication at all.

Publication is putting an enabling description, in some kind of permanent or tangible form in the unrestricted possession of the public.

A presentation at a seminar, even with slides is not publication if no printed material is given out. An entirely oral presentation has no patent significance in the United States, but does start a six-month clock running in many European countries.

Submission of an article for publication in a journal or submission of a grant proposal is not unrestricted disclosure. These procedures are confidential and are not publication. (Caveat: When a grant is funded, the information therein becomes available to the public through the Freedom of Information Act.) An article is published on the date the journal is available, not the date on the journal. Sometimes it is necessary to call the publisher and check the actual date of the mailing.

The thorniest problem of all is the meeting abstract. This is a publication as of the date it is made available; some are mailed in advance and others are picked up at registration. Oftentimes when an abstract goes out, the researcher doesn't yet have a full disclosure ready for consideration of patentability. Therefore, it may be useful to learn the fine art of writing a non-enabling disclosure. Patents are how-to manuals, abstracts are results. If the results are presented in such a way that another person in the field could not duplicate them using known methods, then the abstract is not "enabling" and does not become a patenting bar. Of course, this is not always possible, but often a very acceptable abstract can be written with results only. For example: in discussing a monoclonal antibody, describe its characteristics, but do not describe the source of antigen for priming. If the invention is a machine, treat it as a "blackbox."

If the topic presented in this article is a concern to you, staff in the Office of Patents and Licensing would be glad to review your material and make suggestions on publishing your work without invalidating your patent rights.

### **PHS Eliminates Cost Sharing Requirement on Research Grants**

Cost sharing is no longer required on PHS (Public Health Service) grants for budget periods beginning after February 3, 1986. Since 1966, the HHS Appropriation Acts have stipulated that a grant cannot fund the entire cost of a project. However, this year Congress eliminated the cost sharing language from the HHS Appropriations Act.

This new policy does not apply when specific program legislation provides for a cost sharing requirement, nor does it apply to contracts. The program/awarding grants office is also empowered to administratively apply a cost sharing requirement to any PHS research grant on an individual basis.

Voluntarily sharing in the cost of a grant is not precluded by this policy change. Moreover effort reporting requirements remain unchanged. All effort expended on a PHS research grant regardless of salary source must be certified in the monthly certification system.

### **NSF Seeks Proposals in Lightwave Technology**

The National Science Foundation's Engineering Directorate has initiated an effort to develop fundamental phenomena and materials in the rapidly development field of lightwave technology. The new NSF effort is designed to keep pace with the recent emergence of several ways to generate, transmit, detect and process coherent light waves. This has increased the potential for optical techniques to affect many areas of research and development. Important applications of lightwave technology already have been realized in communications and information storage. NSF's new effort supports team and individual research projects to build on these. Under this program, yearly funding up to \$400,000 will be considered for up to five years to advance our capability in lightwave technology and develop educational programs at single or combinations of institutions. Interested researchers are encouraged to contact T. K. Gustafson, Lightwave Technology Program Director, Engineering Directorate, NSF, Washington, DC 20550. Tel. (202) 357-7955.

### **EFA Research Grants Program**

The purpose of the Epilepsy Foundation of America's research grant program is to stimulate, rather than provide long-term support for, epilepsy research. Seed grants are awarded to provide initial funding for basic and clinical research in the biological, behavioral and social sciences which will advance the understanding, treatment and prevention of epilepsy. EPA does not emphasize one area of epilepsy research over another. Applications are evaluated on the basis of their scientific merit and their value in advancing the knowledge, treatment and prevention of epilepsy. Priority is given to new or innovative projects and to young investigators just entering the field of epilepsy research.

Research support is limited to \$25,000 for a one-year period. Research grants are renewable for a second year on a competitive basis. Projects involving the use of human subjects must include a copy of the sponsoring institution's Human Research Committee's review and approval of the proposal and a copy of the informed consent release to be used in the study. Projects involving the use of animals must include a copy of the institution's review and approval of the project as well as the signed copy of the EFA Protection of Animals Subjects Assurance. The deadline for receipt of applications is September 1, 1986. For application guidelines, contact ORTTA at (612) 624-1033.

### **AFDH Announces Availability of Project Grants**

The American Fund for Dental Health (AFDH) announced a call for proposals in dental research, education and service for 1987. Not limited to schools of dentistry, proposals are sought from schools of behavioral and social sciences and other disciplines. Proposals should demonstrate how they meet one or more of four basic aims of the Fund. These include 1) increasing access to and utilization of professional dental care; 2) enhancing the quality of care available; 3) providing innovative means to accelerate the transfer of new technology from the research laboratory to practice; and 4) assisting institutions in maintaining a quality dental education program. In particular, the Fund is seeking to receive more proposals that impact access to and use of care as well as practical and innovative methods to speed the transfer of new technology to practice. The deadline for proposals is September 1, 1986. A brochure outlining the specific criteria for grants is available from ORTTA by calling 624-1033 or by contracting The Director of Programs, American Fund for Dental Health, 211 E. Chicago Avenue, Chicago, IL 60611; (312) 7878-6270.

### **Fellowships For Research in India**

Faculty and Ph.D. candidates wishing to do research in India may apply for fellowship support from the American Institute of Indian Studies. Funds are available for support of research in all fields of the humanities, social sciences and sciences. The application deadline is July 1 for funding that will be available after June 1, 1987. For further information, telephone Frederick Asher, 373-4340; applications forms are available from Terrie Christian, 373-9834.

### **Travel Services**

Beginning July, 1986, Karen Triplett will handle inquiries about travel policies and procedures at the University of Minnesota. As the Travel Services Coordinator, she will be working on travel training and communications programs for University travelers and travel arrangers, as well as exploring ways to make travel dollars go further. She may be contacted at 624-3329.

### **Storehouses Ordering**

Chemical and General supplies can now be ordered on-line if you have a terminal or microcomputer connected to the Administrative Information Services (AIS) mainframe. New catalogs listing current stock items were distributed in March. For information about the on-line system or to obtain a catalog, call Kathleen Corning at 373-3633.

## Purchasing and Grant Deadlines

If your funding or the fiscal year are about to expire, remember you should encumber funds for last minute purchases. Contract Release Orders (used for purchases under \$500 from University contracts) do not encumber funds. If you want to encumber funds, use a Quik Order form (BA 484B) to order from University contracts. Quik Orders go through Purchasing and are then sent to the Budget Desk for encumbrance before the order is placed with the vendor.

## Telephone Numbers for Grants and Contracts

Listed below are the new telephone numbers for the Grant and Contract Administrative Staff along with a new general number for grants and contracts information. New numbers for additional ORTTA staff were published in the April 1986 ORTTA Newsletter and are also included in the conversion directory published by the Telecommunications Department.

624-5599	General Grant and Contract Information	
624-5856	Mary Lou Weiss	Assistant Director
624-0288	Merlin Garlid	Assistant Director
624-0583	John Garland	Pr. Grant Administrator
624-2546	Judith Krzyzek	Pr. Grant Administrator
624-5066	Todd Morrison	Pr. Grant Administrator
624-5571	Mary Bergaas	Sr. Grant Administrator
624-1059	Judy Lewis	Accountant
624-0035	Charlene Videen	Accountant

## SPONSOR DEADLINES FOR RECEIPT OF APPLICATIONS

Following is a list of some, but not all, agency deadlines occurring within the next few months. All grant applications must be processed through the appropriate academic department, college and the Office of Research Administration with a completed BA Form 23, "Application for External Research or Training Support."

THE ORTTA CONTACT NUMBERS FOR DEADLINE/PROGRAM INFORMATION ARE 624-0353 OR 624-1033.

## FEDERAL

### National Institutes of Health

#### NIH

NIH	Fogarty International Center for Advanced Study in Health Sciences - various programs	Various	
NIH	Research Grants, Renewals	July	1
NIH	Fogarty International Center Senior International Fellowships	September	10
NIH	National Research Service Awards for Senior Fellows	September	10
NIH	National Research Service Awards for Individual Postdoctoral Fellows	September	10

NIH	National Research Service Award		
	Institutional Grants	September	10
NIH	Institutional Training Programs	September	10
NIH	Research Grants, New	October	1
NIH	First Independent Research Support and Transition Award (FIRST)	October	1
NIH	Research Career Development Awards	October	1
NIH	Individual Postdoctoral Fellowships	October	1
NIH	Support of Scientific Meetings	October	1
NIH	Physician Scientist Award	October	1
 NCI			
NCI	CA-86-09 Inheritance and Markers of Colorectal Cancer and Polyps	June	15
NCI	86-CA-11 Increasing Mammography and Breast Palpation	July	14
NCI	86-CA-07 The Transformation Mechanisms of Human Polyomaviruses	July	15
NCI	CA-86-06 Cooperative Human Tissue Network	July	15
NCI	Breast Cancer in Diethylstilbestrol Treated Mothers and in DES-exposed Offspring	October	1
NCI	Cancer Education Program	October	1
NCI	Comprehensive Minority Biomedical Program - Minority Satellite Supplement	October	1
NCI	Comprehensive Minority Biomedical Program - Minority Investigator Supplement	October	1
NCI	Multinuclear Magnetic Resonance Imaging and Spectroscopy	October	1
NCI	Studies of Dose Fractionation and Volume Late Effects in Normal Tissues Using Animal Models	October	1
NCI	Studies on Feline Retroviruses	October	1
NCI	Small Grants Program for Epidemiology	October	1
NCI	Interactions Among Micronutrients in the Prevention of Experimental Mammary Cancer	October	1
NCI	Mechanisms of Site Specific Metastasis in Prostate Cancer	October	1
NCI	Characterization of Multidrug Resistant Human and Other Mammalian Tumor Cell Lines	October	1
NCI	Biological Role of Exocyclic Nucleic Acid Derivatives in Carcinogenesis	October	1
NCI	Prevention and Cessation of Use of Smokeless Tobacco	October	1
 NEI			
NEI	Small Grants Program for Pilot Projects	October	1
NEI	NHLBI/NIAID/NIAMDD/NICHD/NIDR/NINCDS/NIA: The Epidemiology of Diabetes - Career Development	October	1
 NHLBI			
NHLBI	86-HL-20-H, Bypass Angioplasty Revascularization Investigation (BARI) Clinical Units (Letter of intent - June 20)	August	15

NHLBI	Research Training and Development Area: National Research Service Award Programs		
	Institutional Research Training Grant	September	10
	Individual Postdoctoral Fellowship	September	10
	Senior Research Fellowship	September	10
NHLBI	86-HL-07-B, Comprehensive Sickle Cell Centers	September	15
NHLBI	Research Career Development Programs		
	Research Career Development Award	October	1
	Clinical Investigator Award	October	1
	Physician Scientist Award	October	1
	Special Emphasis Research Career Award: Diabetes Mellitus	October	1
NHLBI	Research Career Development Award: Basic Science Related to the Respiratory System	October	1
NHLBI	Demonstration and Education Research in Cystic Fibrosis	October	1
NHLBI	Cardiovascular Studies in Particular Animals	October	1
NHLBI	Blood Cell Surface Antigens Related to Disease	October	1
NHLBI	Molecular Approaches to Myocardial Research	October	1
NHLBI	Transfusion Medicine Academic Award	October	15
<b>NIA</b>			
NIA	86-AG-02, Forecasting Life Expectancy and Active Life Expectancy	September	25
NIA	86-AG-03, Exploratory Studies Grant in Minority Aging	September	30
NIA	Aging and Visual Perception		
	Postdoctoral Fellow	October	1
	Program Project	October	1
NIA	Health Behaviors and Aging: Behavioral Geriatrics Research	October	1
NIA	NIAID/NIADDK/NCI/NICHHD/NIEHS/NHLBI, Clinical Investigator Award	October	1
NIA	NIAID/NIADDK/NICHD/NIDR/NIEHS/NEY/NHLBI, Physician Scientist Award	October	1
NIA	Complementary Training Awards for Research on Aging	October	1
<b>NIADDKD</b>			
NIADDKD	Minority Investigator Research Enhancement Award	Open	
NIADDKD	86-AM-01 Digestive Diseases Core Centers	June	16
NIADDKD	Disease Mechanisms in Immunologic Renal Disease	October	1
NIADDKD	NINCDS/NIAID/NICHHD/NIGMS/NEI/NIEHS/NIA/NIAAA/NIMH		
	Biological Mechanisms of Omega-3 Fatty Acids in Health and Disease States	October	1
NIADDKD	Epidermolysis Bullosa and the Biology of the Basement Membrane Zone	October	1
<b>NIAID</b>			
NIAID	Minority Investigator Research Enhancement Program	Open	
NIAID	Program Projects on the Biology of Immune System - Program Project Grants	June	15
	(Letter of intent - March 15)		
	Center Grants	November	15
	(Letter of intent - August 15)		
NIAID	86-AI-09 Enhancement/Potentiation of Vaccine Antigens	July	15

NIAID	86-AI-08 Sexually Transmitted Disease Research Units	July	15
NIAID	Asthma and Allergic Diseases Centers (Letter of intent - June 15)	September	15
NIAID	86-AI-07 Program Projects on Transplantation Immunology	September	15
NIAID	Sexually Transmitted Diseases - Research on Chlamydial Infections and Vaginosis (Vaginitis)		
	Career Development	October	1
	Physician Scientist	October	1
	Clinical Investigator	October	1
	Postdoctoral Fellow	October	1
NIAID	Pharmaceuticals from the Sea	October	1
<b>NICHD</b>			
NICHD	86-HD-03, Transdermal Administration of Contraceptive Drugs	July	15
NICHD	86-HD-04, Families of Retarded Children and Adults	July	15
<b>NIDR</b>			
NIDR	Small Grant Program	Open	
NIDR	Minority Research Supplement Program	July	1
NIDR	Large Grant Support Program	October	1
NIDR	Research Centers in Oral Biology	December	1
<b>NIGMS</b>			
NIGMS	Cellular and Molecular Basis of Disease Research	October	1
NIGMS	Physiology and Biomedical Engineering	October	1
NIGMS	Genetic Research	October	1
NIGMS	Pharmacological Sciences	October	1
<b>NINCDS</b>			
NINCDS	Clinical Investigator Development Award	October	1
NINCDS	Multidisciplinary Research Centers for the Study of Neuro-Genetic Disorders of Infancy and Childhood (P50)	October	1
NINCDS	Research Grants on the Relationship Between Seizures and Sleep	October	1
<b>NIOSH</b>			
NIOSH	Education Programs in Occupational Safety and Health		
	Special Emphasis Research Career Award	July	1
	Small Grant Program and Competing Renewals	July	1
	Conference Grants	October	1
	New Research Grants	October	1
	Demonstration Grants	October	1
	Program Project Grants	October	1
NIOSH	Engineering Control Systems Research (CDC)		
	Career Development, Small Grants, and Competing Renewals	July	1
	New Applications	October	1

NLM

NLM Investigator-Initiated Research Grants/New  
Investigator Research Awards October 1

Division of Research Resources

DRR Small Grants Program for Pilot Projects -  
Biomedical Research Technology Program October 1

Alcohol, Drug Abuse, and Mental Health

ADAMHA, Small Grants Program Open  
ADAMHA, Institutional Research Training Grants, NRSA September 10  
ADAMHA, Research Grants, New October 1  
ADAMHA, Research Scientist Development Award October 1  
ADAMHA, Research Scientist Award October 1  
NIAAA, Research on Alcohol and Immunology Including Acquired  
Immunodeficiency Syndrome (AIDS) October 1  
NIAAA, Research on Children of Alcoholics October 1  
NIAAA, Alcohol Resource Center Grants October 1  
NIAAA, Alcohol Research Grants October 1  
NIAAA, New Investigator Research Awards October 1  
NIAAA, Research Grants on Alcohol-Related Performance  
Effects and Traumatic Injury October 1  
NIDA/NIAAA, Community Prevention Research in Alcohol and  
Drug Abuse October 1  
NIDA, Drug Abuse Prevention Research October 1  
NIMH, Research Support Programs October 1  
Small Grant Program (with NIAAA and NIDA) Open  
Grants for Mental Health Service System Research October 1  
Geriatric Mental Health Academic Awards October 1  
Preventive Intervention Research Centers (PIRC) October 1  
Rape Center October 1  
Prevention Research Branch October 1  
New Investigator Research Award (NIRA) in Prevention  
(with NIAAA and NIDA) October 1  
New Investigator Research Award in Mental Health Services October 1  
Clinical Research Centers on Psychopathology of the Elderly October 1  
Clinical Investigator Award October 1  
Physician Scientist Award October 1  
Autism and Related Behavioral Disorders (with NINCDS) October 1  
Studies on Obesity (with NIH Institutes and NIDA) October 1  
Research on Mental Illness in Nursing Homes October 1  
AA-85-02, Research Grants on the Prevention of Alcohol,  
Drug Abuse, and Mental Health (ADM) Disorders at the  
Worksite (with NIAAA and NIDA) October 1  
Service System and Economic Research Programs October 1  
MH-86-03, Assessment of Mental Health Problems in Disaster  
Victims October 1  
MH-86-05, Prevention Research on Mutual Support Approaches  
with Bereaved Populations October 1  
MH-86-07, Research on Family Stress and the Care of  
Alzheimer's Disease Victims October 1  
Support for Child and Adolescent Mental Health Research  
and Research Training: Research Grants October 1



MH-86-06, Research on Method for Studying Mental Health Service Systems	October	1
MH-86-08, Research Reimbursement Issues in Mental Health Services Delivery	October	1
NIMH/NIDA, MH-86-16, Acquired Immunodeficiency Syndrome Research Centers	October	1

#### Office of Population Affairs

Opportunities for Research on Adolescent Family Life	October	1
Opportunities for Research in Family Planning Service Delivery Improvement	October	1

#### Health Resources and Services Administration

Nurse Training Improvement Special Project Grants	July	1
Nurse Practitioner and Nurse Midwifery Program Grants	July	1
Maternal and Child Health Projects Research	August	1
National Research Service Awards - Institutional Grants	October	1
First Independent Research Support and Transition Award (FIRST)	October	1

#### National Center for Health Services Research

Conference Grants (Preliminary submission required prior to formal application)	Open	
Small Grants Program	Open	
Extramural Research	October	1
Resource on Health Care Technology Assessment	October	1

#### Department of Education

National Institute for Handicapped Research Innovative Grants	until July	1
Handicapped Research and Demonstration Projects	June	11
Fellowships for FY1986	July	3
Rehabilitation Services Administration Rehabilitation Long-Term Training Program	June	16
State Vocational Rehabilitation Unit Inservice Training Program	June	16
Critical Foreign Languages Program	July	1
Educational Research - Unsolicited Proposals	July	31
Educational Research Grant Program (Reading and Literacy)	November	7
Research and Development Centers Program -Reading Research and Education Center	July	21
RFP No. OERI-R-86-0017 Indicators for College Student Learning in the Disciplines: Concepts and Models	July	21

## National Science Foundation

Program Deadlines and Target Dates for Proposals: The following listing gives the dates on which proposals for grants are due at NSF in the next few months. Further information may be obtained by contacting the NSF staff members listed or ORA. Brochures indicated in parentheses may be requested. These dates are subject to change.

Program Deadlines for NSF Proposals: Proposals received after this cutoff date generally will be returned to the proposer.

Advanced Scientific Computing Program	Open	
Teacher Enhancement and Informal Science Education		
Presidential Awards for Excellence in Science and Mathematics Teaching	Open	
Instrumentation for Materials Research Program	Open	
U.S.-Spain Cooperative Program in Basic Sciences. (Brochure NSF 84-10). Proposals for short-term visits only to plan scientific research or carry-out short, self-contained research activities. Division of International Programs (357-7554).	June	15
U.S.-Korea Cooperative Science. (Brochure NSF-83-50). Proposals for long-term visits and cooperative research only. Dr. Gerald Edwards, Division of International Programs (357-9537).	July	1
U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). Philippine component only. Proposals for long-term visits, cooperative research, seminars and workshops. Dr. Gerald Edwards, Division of International Programs (357-9537).	July	1
Ship Operations. (Brochure NSF 84-63). "Instructions for Preparation of Proposals, Requesting Support for Oceanographic Facilities." Mr. John McMillan, Division of Ocean Sciences (357-7837).	July	1
Shipboard Technicians. (Brochures NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	July	1
Small Business Innovation Research. Mr. Roland Tibbetts or Mr. Richie Coryell, Division of Industrial Science and Technological Innovation (357-7527).	July	14
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	August	1
Special Research Initiation Awards for New Investigators in Information Science and Technology. (Brochures NSF 81-34 and 81-69). Dr. Charles Brownstein, Division of Information Science and Technology (357-9572).	August	6
Oceanographic Instrumentation. (Brochure NSF 84-63). "Instruction for Preparation of Proposals Requesting Support for Oceanographic Facilities." Mr. H. Lawrence Clark, Division of Ocean Sciences (357-7837).	September	1
Shipboard Scientific Support Equipment. (Brochure NSF 84-63). "Instructions for Preparation of Proposals Requesting Support for Oceanographic Facilities." Dr. Richard West, Division of Ocean Sciences (357-7837).	September	1
Arctic Research. Mr. Guy Guthridge, Division of Polar Programs (357-7766).	September	1

U.S.-United Kingdom Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September 15
U.S.-Austria Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-9700).	September 15
U.S.-Federal Republic of Germany Cooperative Science. (Brochure NSF 83-73). Semi-annual deadline for proposals for joint research and seminars. Division of International Programs (357-9700).	September 15
Cooperative Science Activities with Denmark, Iceland, the Netherlands, and Norway. (Brochure NSF 83-73). Division of International Programs.	September 15
U.S.-Finland Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September 15
U.S.-Sweden Cooperative Science. (Brochure NSF 83-73). Division of International Programs (357-7554).	September 15
U.S.-Switzerland Cooperative Science. (Brochure NSF 85-42). Dr. Harry Hedges (357-7349) or Dr. Robert Minnick (357-7345), Division of Computer Research.	September 15

Target Dates for NSF Proposals: Proposals received after this cutoff date will be reviewed although they may miss a particular panel meeting.

Ecology. (Brochure NSF 84-68). Dr. Patrick Flanagan, Division of Biotic Systems and Resources (357-9734).	June 16
Ecosystem Studies. (Brochure NSF 84-68). Dr. James Gosz, Division of Biotic Systems and Resources (357-9596).	June 16
Population Biology and Physiological Ecology. (Brochure NSF 84-68). Dr. James Collins, Division of Biotic Systems and Resources (357-9728).	June 16
Systematic Biology. (Brochure NSF 84-68). Dr. James Rodman, Division of Biotic Systems and Resources (357-9588).	June 16
Cell Biology. (Brochure NSF 85-11). Dr. Arnold Kaplan or Dr. Gertrude Kasebekar, Division of Cellular Biosciences (357-7474).	July 1
Cellular Physiology. (Brochure NSF 85-11). Dr. Maryanna Henkart or Dr. Barbara Zain, Division of Cellular Biosciences (357-7377).	July 1
Developmental Biology. (Brochure NSF 85-11). Dr. Joseph Mascarenhas, Division of Cellular Biosciences (357-7989).	July 1
Eukaryotic Genetics. (Brochure NSF 85-11). Dr. DeLill Nasser, Division of Cellular Biosciences (357-0112).	July 1
Regulatory Biology. (Brochure NSF 85-11). Dr. Lewis Greenwald or Dr. Elvira Doman, Division of Cellular Biosciences (357-7975).	July 1
Social and Developmental Psychology. (Brochure NSF 84-72). Dr. Jean Intermaggio, Division of Behavioral and Neural Sciences (357-9485).	July 1
Molecular and Cellular Neurobiology. (Brochure NSF 84-72). Dr. Stephen Morris, Division of Behavioral and Neural Sciences (357-7471).	July 15
Psychobiology. (Brochure NSF 83-57). Dr. Fred Stollnitz or Kathie Olsen, Division of Behavioral and Neural Sciences (357-7949).	July 15
Developmental Neuroscience. (Brochure NSF 84-72). Dr. Frank Collins, Division of Behavioral and Neural Sciences (357-7042).	July 15

Integrative Neural Systems. (Brochure NSF 84-72). Dr. Nathaniel Pitts, Division of Behavioral and Neural Sciences (357-7040).	July	15
Sensory Physiology and Perception. (Brochure NSF 84-72). Dr. Carol Welt, Division of Behavioral and Neural Sciences (357-7428).	July	15
Climate Dynamics. Dr. Thomas Crowley, Division of Atmospheric Sciences (357-9892).	August	1
Linguistics. (Brochure NSF 84-72). Dr. Paul Chapin, Division of Behavioral and Neural Sciences (357-7696).		
Memory and Cognitive Processes. (Brochure NSF 84-72). Dr. Joseph Young, Division of Behavioral and Neural Sciences (357-9898).	August	1
Anthropology. (Brochure NSF 84-72). Dr. John Yellen or Dr. Stuart Plattner, Division of Behavioral and Neural Sciences (357-7804).	August	1
Decision and Management Science. Dr Robert Thrall (357-7569) or Dr. Vincent Covello (357-7417), Division of Social and Economic Science.	August	15
Economics. Dr. James Blackman, Dr. Daniel Newlon or Dr. Lynn Pollnow, Division of Social and Economic Science (357-9674).	August	15
Geography and Regional Science. Dr. Ronald Abler, Division of Social and Economic Science (357-7326).	August	15
History and Philosophy of Science. Dr. Ronald Overmann or Ms. Dorothy Greene, Division of Social and Economic Science (357-7913).	August	15
Law and Social Sciences Program. Felice J. Levine (357-9567)	August	15
Science in Developing Countries. Sub-Saharan Africa: Dr. Osman Shinaishin (357-9550); North Africa and Turkey: Mr. Francis Field (357-9402); South and West Asia: Dr. Osman Shinaishin (357-9402); East Asia: Dr. Gordon Hiebert (357-9537); and Latin America and Caribbean: Ms. Christine French (357-9563), Division of International Programs.	September	1
U.S.-East Asia Cooperative Science. (Brochure NSF 83-50). Indonesia, Malaysia, Singapore, Thailand. Dr. Gordon Hiebert, Division of International Programs	September	1
 U.S. Department of Agriculture		
Competitive Research Grants Program Soybean	Various	
 U.S. Department of Commerce		
National Bureau of Standards; Center for Manufacturing Engineering, Automated Manufacturing Research Facility (AMRF) Research Grants Program	Open	
 U.S. Department of Defense		
Strategic Defense Initiative Innovative Science and Technology Office	Open	
U.S. Air Force University Resident Research Program	Open	

U.S. Army Research Institute		
Basic Research in Behavioral and Social Sciences		
- Concept Paper		June 30
- Formal Proposal		September 30
U.S. Department of Energy		
Office of Energy Research		
Special Research Grants Programs		Open
(For FY 1986 funding - deadline is April 15)		
Advanced Coal Research		Open
U.S. Department of Justice		
Office of Juvenile Justice and Delinquency Prevention		
Research and Program Development Programs		Open
Environmental Protection Agency		
Environmental Biology		Open*
Environmental Health		Open*
Environmental Engineering		Open*
Environmental Air/Water Chemistry and Physics		Open*
Special Research Grants and Student Fellowship Program		Open*
*Suggested closing date - February 15 and August 15		
National Endowment for the Arts		
U.S./French Exchange Program: Deadline varies with		
Discipline		Various
Museum		
Special Projects		Open
National Endowment for the Humanities		
Division of Education Programs		
Improving the Preparation of Teachers of Humanities		Contact ORTTA
Division of General Programs		
Museum & Historical Organizations		June 13
Youth Projects		June 13
(Preliminary Narrative - April 1986)		
National Aeronautics & Space Administration		
Airborne Astronomy Program		Open
Social Security Administration		
Research Grants		June 13

NONFEDERAL

American Cancer Society, Inc.			
Regular Clinical Fellowships		July	1
Clinical Oncology Career Development Award (Letter of Intent - June 15, 1986)		August	1
American Chemical Society - Petroleum Research Fund			
Grants-in-Aid		No Deadline	
American Council of Learned Societies			
Fellowships	(request for application)	September	24
	(receipt of application)	September	30
Research Fellowships	(request for application)	September	24
	(receipt of application)	September	30
Grants-in-Aid		December	15
Travel Grants for Humanities		July	1
		November	1
		March	1
Grants for Chinese Studies		Various	
Grants for East European Studies		December	1
American Fund for Dental Health		September	1
American Heart Association			
Clinical Scientist Award		July	1
Grants-in-Aid		October	1
Established Investigators		July	1
British - American Research Fellowships		July	1
American Lung Association			
Research Training Fellowship		October	1
Pediatric Pulmonary Research Fellowship		October	1
Edward Livingston Trudeau Scholar Awards		October	1
Dalsemer Research Scholar Award		October	1
Career Investigator Award		October	1
Research Grants		November	1
American Philosophical Society			
Research Grants Program		August	1
American Veterinary Medicine Foundation		August	1
Annenberg School of Communication and Corporation for Public Broadcasting		August	29
Beatrice Foundation			
Problems of the Family		August	15
Literacy		August	15
Bosch Foundation Fellowship Program		No Deadline	
Burroughs Wellcome Fund (U.S.-Britain/Ireland Working Visits)		No Deadline	
Canadian Studies Grant Program 1987-88			
Faculty Enrichment Program		October	31
Senior Fellowship Award		October	31
Graduate Student Fellowship Program		October	31
Faculty Research Program		September	30
Institutional Research Program		September	30
Carnegie Corporation - Education Grants		No Deadline	
Center for Field Research (Earthwatch)			
Latin America Field Research Grants		No Deadline	
Council for International Exchange of Scholars		June	15
Council for Tobacco Research			
Research Grants		November	30
Cystic Fibrosis Foundation			
Research Scholar		September	1
Research Fellowship		September	1

Research Grants		September	1
Clinical Fellowship		October	1
Student Traineeship		October	1
Deafness Research Foundation		July	15
Distilled Spirits Council of the US		August	1
Edna McConnell Clark Foundation		No Deadline	
Engineering Foundation (Pre-proposals)		No Deadline	
Epilepsy Foundation of America		September	1
Research Grants		September	1
Clinical Research Fellowship		September	1
Exxon Education Foundation - Grants for Curriculum and Teaching and Management of Higher Education Programs		Open	
Parker B. Francis Foundation			
Fellowships in Pulmonary Research		September	15
Gas Research Institute			
Telephone contact or letter of inquiry prior to submission of formal proposal		No Deadline	
German Marshall Fund			
Short-Term Travel Awards		No Deadline	
John A. Hartford Foundation			
General Grant Program		Open	
Health Care Financing Program		Open	
Emma B. Howe Memorial Foundation		July	1
International Foundation of Employee Benefit Plans			
Postdoctoral Grants-in-Aid		Open	
International Society of Arboriculture		December	1
Robert Wood Johnson Foundation			
Clinical Nurse Scholarships Program		July	1
Kellogg Foundation			
Expanding Opportunities for Adult Continuing Education		Continuous	
Health Promotion and Disease Prevention Programs		Continuous	
Coordinated, Cost-Effective Health Service Programs		Continuous	
Improving Human Well Being Through Productive Agriculture		Continuous	
Fostering Leadership Capacity		Continuous	
Kresge Foundation - Challenge Grants		Open	
Leukemia Society of America, Inc.			
Short-Term Scientific Exchange Award		July	1
Presidents' Research Development Award		July	1
Scholarship, Special Fellowship, and Fellowship Grants		September	1
MacArthur Foundation			
International Security Program		Open	
March of Dimes Birth Defects Foundation			
Basil O'Connor Starter Research Grants		Continuous	
Clinical Research Grants		August	1
(300 word abstract due prior to May 15 to receive application form)			
Basic Research Grants		October	1
Mathers Charitable Foundation		Continuous	
Metropolitan Life Foundation		No Deadline	
Minnesota Humanities Commission			
General Grants	(application draft)	August	15
	(final draft)	September	5
Media Grant	(application draft)	August	15
	(final draft)	September	5
Small Grant		Continuous	
Minnesota Medical Foundation		June	1

Muscular Dystrophy			
Grant-in-Aid Program	(request applic. from agency)	May	31
	(final application)	June	30
Fellowship Program	(request application)	May	31
	(final application)	June	30
Clinical Research Grant Program	(request application)	May	31
	(final application)	June	30
National Geographic Society			
Grants-in-Aid		No	Deadline
National Multiple Sclerosis Foundation			
Research Grants		August	1
Orthopaedic Research and Education Foundation		September	15
Research Corporation			
(Recommend submission 60 to 120 days prior to agency reviews in October, February and May)		No	Deadline
Rockefeller Foundation			
Research on the Genetic Engineering of Rice		Open	
Runyon/Winchell Cancer Fund		August	15
		December	15
Alfred P. Sloan Foundation		No	Deadline
Technicon Instruments Corporation			
Grants for Research in Biomedical and Industrial Instrumentation - Pre-proposals		No	Deadline
Thrasher Research Fund			
Grants in Nutrition, Infectious Diseases, Health Promotion		No	Deadline
University Genetics Company (UGEN)		No	Deadline
Villers Foundation		No	Deadline

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.