

# NIH GUIDE

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The NIH Guide announces scientific  
initiatives and provides policy and  
administrative information to indi-  
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be kept informed of opportunities,  
requirements, and changes in extra-  
mural programs administered by the  
National Institutes of Health.

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## NOTICES

### CANCER EDUCATION PROGRAM (R25)

P.T. 34; K.W. 0715035, 0403004, 0795003

National Cancer Institute

The next application receipt dates for the Cancer Education Program (R25) will be October 1, 1989, for new applications and November 1, 1989, for renewal applications. The June and July 1989 receipt dates will be skipped; therefore, any applications received on those dates will be deferred to the next cycle. The timetable for all these applications will be as follows: initial review for scientific merit, February 1990; second level review by the National Cancer Advisory Board, May 1990. Please contact the Cancer Training Branch, (Dr. Robert Adams, (301) 496-8580), if you have any questions concerning this announcement.

### STEVENS AMENDMENT TO THE DEPARTMENT OF DEFENSE APPROPRIATIONS ACT

P.T. 34; K.W. 1014002, 1014006

Public Health Service

The Office of Management and Budget has advised the heads of all departments and agencies about a government-wide requirement set forth in Section 8136 of the Department of Defense (DOD) Appropriations Act for fiscal year 1989. Specifically, Section 8136 (The "Stevens Amendment") reads as follows:

"When issuing statements, press releases, requests for proposals, bid solicitations, and other documents describing projects or programs funded in whole or in part with Federal money, all grantees receiving Federal funds, including but not limited to State and local governments, shall clearly state (1) the percentage of the total cost of the program or project which will be financed with Federal money, and (2) the dollar amount of Federal funds for the project or program."

All recipients of Public Health Service grants (and cooperative agreements) involving fiscal year 1989 appropriated funds must comply with the requirements of Section 8136.

### METHODS OF MOLECULAR MECHANICS AND DYNAMICS OF BIOPOLYMERS WORKSHOP, PITTSBURGH SUPERCOMPUTING CENTER

P.T. 42; K.W. 0790010, 0760060, 1004000

Division of Research Resources

The Pittsburgh Supercomputing Center (PSC) is conducting a three-day workshop on "Methods of Molecular Mechanics and Dynamics of Biopolymers," May 31, June 1-2, 1989, for biomedical researchers. This workshop is funded by a grant from the Division of Research Resources' Biomedical Research Technology (BRT) Program of the National Institutes of Health (NIH).

The workshop will familiarize biomedical researchers with computational methods and provide practice in applying supercomputing resources to problems of concern in molecular mechanics. Previous programming or supercomputing experience is desirable but not necessary. Practical experience on the Pittsburgh Supercomputing Center's Cray Y-MP/832 will be gained in the application to: (1) the problem of conformational mapping and analysis of polypeptide structures; (2) the structural refinement of polypeptides, proteins, and nucleic acids using constraints from measured NMR data; and (3) computation of interaction energies and free energies for protein-drug interactions. The use of state-of-the-art macromolecular computational packages will be illustrated. The workshop will be led by Dr. Charles L. Brooks III, Carnegie Mellon University.

This three-day workshop will include an optional half-day session the morning of May 31 led by PSC staff members. Topics to be covered during the optional session include VAX, VMS, and UNICOS, the Cray version of the AT&T System V Unix operating system.

Travel, meals, and hotel accommodations are covered for U.S. academic participants under the grant. Enrollment is limited to 20 participants. THE DEADLINE FOR SUBMISSION OF APPLICATIONS IS APRIL 20, 1989.

To apply for the workshop send a letter accompanied by a curriculum vitae to Cheryl Brooks at the address below. The letter should outline your research background and current research activities and interests, together with a brief description (one paragraph) of a problem that may be addressed in this workshop. The applicant's level of FORTRAN programming experience and supercomputing experience, if any, should also be included. In addition, graduate students should submit a letter of recommendation written by a faculty member.

For further information, call or write to:

Cheryl A. Brooks  
User Services  
Pittsburgh Supercomputing Center  
4400 Fifth Avenue  
Pittsburgh, Pennsylvania 15213  
Telephone: (412) 268-5206, 1-800-222-9310 (Pennsylvania)  
1-800-221-1641 (outside Pennsylvania)

#### NIH REGIONAL CONFERENCE IN GRANTS ADMINISTRATION

P.T. 42; K.W. 1014006

National Institutes of Health

A two-day conference covering topics related to both program funding and grants administration at the National Institutes of Health is planned for May 25-26, 1989, at Mississippi State University in Starkville. The conference is targeted for an audience of researchers and research administrators at institutions in the southern region which includes Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee. Those interested from Arkansas and Louisiana are also encouraged to attend. Investigators and staff from small and minority colleges, for-profit research organizations, hospitals, universities, and research institutes are invited. This two-day conference has a dual focus of interest to both researchers and grants administrators. Discussions of current issues that affect NIH funding and grants administration are included to give conference participants a comprehensive, up-to-date view of NIH-sponsored research.

The first day of the conference is devoted to discussions of current interest to the research programs of the various institutes that comprise the NIH. Preparation of an NIH proposal and the NIH review process are included as agenda topics. Program representatives from three of the NIH institutes and the National Institute on Drug Abuse of the Alcohol, Drug Abuse and Mental Health Administration are featured speakers. Time will be available for conference participants to meet informally with the NIH representatives and discuss topics of special interest.

The program for the second day covers topics associated with pre-award and post-award administration of NIH grants. Policy and procedural issues affecting NIH grants administration form the basis for the program. General discussions on current issues and the changes they precipitate are integrated with more specific discussions regarding special career development programs and lab safety. Mr. Geoffrey Grant, Grants Policy Officer in the Office of Extramural Research at NIH, and representatives from the Division of Research Grants and program and grants management staff of several institutes are featured speakers.

Conference information will be mailed out in early April, and the deadline for conference registration is May 5th. Dr. Bev. R. Norment at Mississippi State University is in charge of conference arrangements. For more information, contact him or his assistant, Ms. Donna Echols, at (601) 325-3570.

DATED ANNOUNCEMENTS (RFPs AND RFAs)

DEVELOPMENT AND TESTING OF NEW MALE AND FEMALE CONDOMS

RFP AVAILABLE: NICHD-BAA-89-16

P.T. 34; K.W. 0750020

National Institute of Child Health and Human Development

The Contraceptive Development Branch of the Center for Population Research, National Institute of Child Health and Human Development, has a requirement to develop, design, and test new non-latex or modified latex condoms for male and female use possessing the following characteristics: (a) tensile and air burst strength greater than present latex condoms; (b) uniform wall thickness; (c) non-sensitizing, (d) pin-hole free, or porosity smaller than 40 microns; (e) spermicide compatibility; (f) extended shelf-life; (g) shipping stability. Proposals to develop new potential materials or to test or compare marketed products will not be accepted under this RFP. It is anticipated that three contract awards will be made for a maximum period of five years each depending upon the nature and complexity of the proposed research.

This is not a Request for Proposals. RFP-NICHD-BAA-89-16 will be issued on or about April 11, 1989, as a Broad Agency Announcement as defined in FAR 6.102 (d)(2). Proposals will be due approximately 90 days thereafter. Copies of the RFP may be obtained by sending written requests to Mr. Paul J. Duska at the address listed below. Requests may also be made by FAX Telephone (301) 496-0962.

Paul J. Duska, Contracting Officer  
Contracts Management Section, OGC  
National Institute of Child Health and Human Development  
Executive Plaza North, Room 610  
9000 Rockville Pike  
Bethesda, Maryland 20892

HOUSING, MAINTENANCE AND ROUTINE TESTING OF AIDS INFECTED RESEARCH ANIMALS

RFP AVAILABLE: RFP-NIH-NIAID-OSD-90-12

P.T. 34; K.W. 1002002, 0715008

National Institute of Allergy and Infectious Diseases

The Intramural Research Program, Office of the Scientific Director of the National Institute of Allergy and Infectious Diseases, has a requirement for housing and maintenance of up to 12 adult chimpanzees while conducting directed research studies with human immunodeficiency viruses. Offerors must have facilities and trained personnel for working with infectious disease agents in chimpanzees.

Any contract awarded will be subject to DHHS regulations regarding the use of animal subjects in research. The Institute plans to make one award from this solicitation.

RFP-NIH-NIAID-OSD-90-12 will be issued on or about April 14, 1989, with a closing date for receipt of proposals tentatively set for June 2, 1989. To receive a copy of the RFP, please supply this office with two (2) self-addressed mailing labels. All responsible sources may submit a proposal which will be considered by NIAID.

Request for the RFP should be directed to:

Ms. Joyce U. Sagami  
National Institute of Allergy and Infectious Diseases  
Westwood Building, Room 707  
5333 Westbard Avenue  
Bethesda, Maryland 20892  
Telephone: (301) 496-2509

This advertisement does not commit the Government to award a contract.

COMPUTATIONAL NEURONAL MODELING

RFP AVAILABLE: NIH-NINDS-89-06

P.T. 34; K.W. 0705055, 1004000

**National Institute of Neurological Disorders and Stroke**

The National Institute of Neurological Disorders and Stroke (NINDS) has a new requirement for computational neuronal modeling. This contract is the first phase of a long-term effort to develop a sound functional mathematical description of the nature and behavior of learning, storage, and recall in vertebrate biological systems. Such a mathematical description, even in its early stages of development will serve two principal, mutually reinforcing functions. It will facilitate the design of further neurobiological experiments and it will serve as the basis for the development of numerical models that clearly demonstrate the pattern recognition and classification capabilities of animals and man.

The work required of the Contractor shall consist of the following interrelated tasks: 1) develop a detailed, lumped-parameter model (that can be numerically emulated using a computer as a tool) of invertebrate and vertebrate neural systems exhibiting associate learning, storage, and recall that bears a one-to-one relationship to biological reality; 2) develop a mathematical model of the underlying input/output relations of the models; 3) demonstrate the validity of the mathematical model by numerical emulation of that model using the mathematical model rather than a one-to-one description of biological reality; and 4) utilizing the emulations, demonstrate as clearly as possible the ability of these algorithms to learn, store, recall, and associate inputs, using realistic test cases.

Offerors must have: 1) experience in computer modeling and mathematical analysis of neural networks (artificial and natural), non-linear systems, and/or non-linear optimization theory and applications; 2) personnel qualified to perform interdisciplinary research spanning computer science/engineering/physics/systems science on the one hand and biomedical sciences on the other; and 3) computer hardware/software resources adequate to carry out the proposed work, including facilities to execute efficiently large neural network computer programs with consequent large data/program memory requirements.

It is anticipated that one contract award will be made under this RFP, for a three-year period.

This is not a Request for Proposals (RFP). RFP No. NIH-NINDS-89-06 will be issued on or about March 27, 1989, with tentative date for receipt of proposals set at May 19, 1989.

To receive a copy of the RFP, please submit a written request to the following address and supply this office with two self-addressed mailing labels.

All responsible sources may submit a proposal which will be considered by the Government.

Contracting Officer  
Contracts Management Branch, DEA  
National Institute of Neurological Disorders and Stroke, NIH  
Federal Building, Room 901  
7550 Wisconsin Avenue  
Bethesda, Maryland 20892

Attn: RFP-NIH-NINDS-89-06

REDUCING FRAILTY AND INJURIES IN OLDER PERSONS

RFA AVAILABLE: 89-AG/NR-04

P.T. 34; K.W. 0715027, 0745027, 0745030, 0710010, 0415003

National Institute on Aging  
National Center for Nursing Research

Application Receipt Date: July 19, 1989

## PURPOSE

This announcement invites cooperative agreement applications for: i) Sites to carry out biomedical, behavioral or environmental intervention studies designed to reduce the loss of functional capacities and to prevent fall-related injuries in older persons; and ii) a Coordinating Center for these intervention studies. Two related investigative approaches are sought:

- o Studies aimed at increasing physical functional capacities and reducing injuries by improving mobility, strength, and balance.
- o Studies aimed at optimizing health behaviors and/or environmental conditions with the intent of reducing fear of falling, the actual occurrence of falls, consequent injuries, or other negative sequelae.

## BACKGROUND

A major goal of research related to aging is to increase the period of time that older individuals are able to function independently and in relatively good health. The September 1988 "Workshop on Reducing Frailty and Fall-Related Injuries in Older Persons" sponsored by the National Institute on Aging (NIA), National Center for Nursing Research (NCNR) and the Centers for Disease Control, presented current knowledge on these subjects. Recommendations were for the need to: i) conduct initial studies to test the efficacy of different intervention approaches; ii) encourage interventions in populations with either low, intermediate or high functional impairment with the intervention well matched to the appropriate target population; iii) select outcome measures very carefully and with full awareness of required sample size; iv) emphasize functional capacities and health behaviors as critical outcome measures; and vi) evaluate factors which may affect compliance with the interventions in these populations.

## RESEARCH GOALS AND SCOPE

Applications are invited which propose studies to test intervention strategies for the prevention, reduction or compensation of physical frailties or environmental hazards which place older persons at risk for injuries. It is anticipated that there will be 6-8 Sites and one Coordinating Center which must be independent of the Sites. A multidisciplinary approach is encouraged as appropriate to the proposed intervention.

Examples of interventions to increase physical capacities include, but are not limited to:

- o Rehabilitation programs to restore functional deficits related to cardiovascular, musculoskeletal and other dysfunctions among older persons.
- o Exercise and/or nutritional interventions designed to improve muscular strength and/or bone strength.
- o Exercise regimens to improve postural stability and/or range of motion.
- o Interventions to increase mobility and strength in older individuals with arthritis.

Examples of interventions to enhance health behaviors and/or environments include, but are not limited to:

- o Interventions to identify and eliminate risk-related environmental hazards in the home or institutional setting.
- o Behavioral strategies to increase older individuals' recognition of injury risk, avoidance of imprudent behaviors associated with injury risk, and adoption of appropriate behavioral responses to reduced functional capacities.
- o Psychosocial interventions to reduce incapacitating fear of falling and increase psychosocial functioning.
- o Development and testing of special falls reduction programs in institutional settings.

## MECHANISM OF SUPPORT

The administrative and funding mechanism to be used to support these awards will be cooperative agreements between each awardee and NIH. This study will involve the cooperation of scientists from: 1) multiple research Sites, 2) a Coordinating Center, and 3) two NIH units (NIA and NCNR). A Steering Committee will serve as the study's primary governing body. The proposed start date is April 1, 1990. Support may be requested for up to 3 years for Sites but must be requested for the full 3 years by the Coordinating Center.

## REVIEW PROCEDURES AND CRITERIA

Applications will be received by the NIH Division of Research Grants and will be dually assigned to NIA and NCNR. Applications judged by NIA or NCNR to be nonresponsive will not be accepted. Responsive applications may be subjected to triage by a peer review group to determine their scientific merit relative to the other applications received in response to this RFA. Applications will be reviewed in accord with the usual NIH peer review procedures.

## METHOD OF APPLYING

The full version of this RFA should be requested and the instructions it contains for completing applications should be followed. Researchers considering an application in response to this RFA are strongly encouraged to discuss their project with NIA or NCNR program administrators in advance of formal submission. This can be done either through a telephone conversation or a brief letter giving the title of the proposed project, the principal investigator and, when known, other key participants. This letter should be sent to the appropriate staff contact listed below by June 14, 1989.

## INQUIRIES

Presubmission inquiries and correspondence can be directed to these NIA and NCNR contact offices listed below.

Geriatrics Branch  
National Institute on Aging  
Building 31, Room 5C27  
Bethesda, Maryland 20892  
Telephone: (301) 496-1033

Behavioral and Social Research Program  
National Institute on Aging  
Building 31, Room 5C32  
Bethesda, Maryland 20892  
Telephone: (301) 496-3136

Health Promotion and Disease Prevention Branch  
National Center for Nursing Research  
Building 31, Room 5B13  
Bethesda, Maryland 20892  
Telephone: (301) 496-0523

## MINORITY MENTAL HEALTH RESEARCH CENTERS

RFA AVAILABLE: MH-89-02

P.T. 04, FF; K.W. 0715095, 0710030

Application Receipt Date: November 15, 1989

National Institute of Mental Health

The National Institute of Mental Health (NIMH) is requesting applications for Minority Mental Health Research Centers to support coordinated, multidisciplinary research on the mental health needs and issues of minority populations. Eligible applicant institutions include any non-profit or for-profit organization which has an established relevant research capacity or has a documented affiliation with an institution with such a research capacity.

In fiscal year 1989, NIMH funded four centers for a total amount of about \$2.3 million. In fiscal year 1990, NIMH hopes to fund up to four new centers under this RFA. The initial funding period of a new center will be for no more than 3 years, at which time a competing application for renewal will be considered for future funding.



Potential applicants are requested to submit a one-page letter of intent by April 30, 1989. The letter should be sent to Mrs. Edna Hardy-Hill, with a copy to Dr. Freda K. Cheung at the following addresses:

Mrs. Edna Hardy-Hill, Chief  
Research Development and Special Projects Review Branch  
Division of Extramural Activities  
Room 9C-15  
Telephone: (301) 443-6470

Dr. Freda Cheung, Acting Chief  
Minority Research Resources Branch  
Division of Applied Biometry and Applied Sciences  
Room 18-101  
Telephone: (301) 443-3724

The mailing address for both of the above is:

NIMH  
5600 Fishers Lane  
Rockville, Maryland 20857

NIMH will accept applications in response to this request for applications on November 15, 1989, and thereafter under the regular Public Health Service receipt dates for applications. For further information, potential applicants should contact Dr. Cheung as listed above.

#### RESEARCH TRAINING AND CAREER DEVELOPMENT AWARDS FOR PHYSICIANS IN NUTRITION

RFA AVAILABLE: 89-DK-06

P.T. 34; K.W. 0710095

National Institute of Diabetes and Digestive and Kidney Diseases

Application Receipt Date: July 17, 1989

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) invites applications for nutrition research training and for career development for physicians. The Nutrition Program of the Division of Digestive Diseases and Nutrition (DDDN), NIDDK, supports research, research training, and career development programs on nutrient metabolism, obesity, eating disorders and energy regulation. The objective of this solicitation is to increase the number of physicians who can conduct high quality nutrition research. The award mechanisms offered to achieve this are: 1. The National Research Service Award Institutional Training Grant. 2. The National Research Service Award Individual Postdoctoral Fellowship. 3. The Physician Scientist Award 4. The Clinical Investigator Award.

#### ELIGIBILITY REQUIREMENTS

These requirements are in addition to the standard eligibility criteria for these Public Health Service award mechanisms and apply only to these awards under this RFA: 1. National Research Service Award Institutional Training Grant: the applicant organization must be or must be associated with a major medical institution, must have or be able to develop a potential basic science training staff who have NIH or other competitively awarded research support, and must evidence a capacity to attract and train physicians from under-represented minority groups. Trainees are to have completed a residency in internal medicine, surgery, or pediatrics. Consultation with DDDN staff is important to the potential applicant. 2. National Research Service Award Individual Postdoctoral Fellowship, Physician Scientist Award, and Clinical Investigator Award: the applicant is to have completed, by the time an award would be activated, a residency in internal medicine, surgery, or pediatrics.

#### TERMS OF THE AWARDS AND AVAILABILITY OF FUNDS

The NIDDK plans, under this RFA, assuming normal funding capacity and the receipt of meritorious applications, to award 1 Institutional Training Grant, a total of 2 Physician Scientist and/or Clinical Investigator Awards, and 4 Individual Postdoctoral Fellowship Awards.

For the complete RFA document, which includes guidance for preparation of applications, please contact:

Office of the Director  
Research Training and Career Development Program  
Division of Digestive Diseases and Nutrition, NIDDK  
Westwood Building, Room 3A15  
Bethesda, Maryland 20892  
Telephone: (301) 496-7455

#### ONGOING PROGRAM ANNOUNCEMENTS

#### MINORITY RESEARCH PROGRAM ADMINISTRATIVE SUPPLEMENTAL AWARDS

P.T. 34, FF; K.W. 0404003, 0404009, 0710030

National Institute on Alcohol Abuse and Alcoholism  
National Institute on Drug Abuse

#### INTRODUCTION

The National Institute on Alcohol Abuse and Alcoholism (NIAAA) and the National Institute on Drug Abuse (NIDA) are announcing an opportunity for administrative supplements to existing extramural research grants, including the traditional research projects (R01), program project grants (P01), and specialized centers (P50) to support research by a minority researcher or other researchers with special expertise in alcohol and other drug abuse issues as they affect minority populations. This researcher will be referred to as the "proposed researcher" for the remainder of this announcement.

#### PURPOSE

The purpose of this program announcement is to increase research support to minority scientists and other researchers to expand their knowledge about alcohol and other drug abuse, to gain research experience, and to increase their commitment to examining problems of addiction and drug abuse among minority populations. Administrative supplements will be made for a period of up to three years on behalf of a proposed researcher, who will work in collaboration with the principal investigator of an ongoing NIAAA or NIDA grant. NIAAA and NIDA encourage applications for support of researchers at Historically Black Colleges and Universities and other minority institutions. The ongoing NIAAA or NIDA grant must have at least two years of remaining non-competitive support at the time of submission. The proposed research administrative supplemental application must be closely related to the currently funded research grant. An administrative supplemental application will not be accepted in the final year of the grant. It must examine some aspect of alcoholism and/or drug abuse among minority populations or support a minority researcher. It must represent an increased effort in an already approved objective of the research project or propose to enhance the effectiveness of the overall research project. The nature of the research should provide the proposed researcher with an opportunity to contribute intellectually to the program and to broaden his/her research potential. The scope of the project will generally be comprehensive enough to require two years for completion and the administrative supplemental application should include such a research plan and requested budget.

#### APPLICATION RECEIPT AND REVIEW SCHEDULE

Applications in response to this announcement may be made at any time during the fiscal year. Review of these applications for administrative supplements will be conducted by NIAAA and NIDA staff and other experts.

Copies of the Program Announcement may be obtained by sending a written request to:

#### NIDA

Catherine Bell-Bolek, M.S.  
Program Director  
Special Populations Research  
Program  
National Institute on Drug Abuse  
Telephone: (301) 443-0441

#### NIAAA

Albert A. Pawlowski, Ph.D  
Associate Director  
Division of Basic Research  
National Institute on  
Alcohol Abuse and Alcoholism  
Telephone: (301) 443-1273

ERRATUM

STUDIES OF DIABETES MELLITUS AND RELATED PROBLEMS

P.T. 34, FF; K.W. 0715075, 0710030, 0755030, 0765033, 0785055, 0745065, 0404000

National Institute of Diabetes and Digestive and Kidney Diseases  
National Institute of Aging  
National Institute of Allergy and Infectious Diseases  
National Institute of Child Health and Human Development  
National Institute of Dental Research  
National Institute of Environmental Health Sciences  
National Eye Institute  
National Heart, Lung, and Blood Institute  
National Institute of Mental Health  
National Institute of Neurological Disorders and Stroke  
National Center for Nursing Research

This Program Announcement was published in the NIH Guide for Grants and Contracts, Vol. 18, No. 7, March 3, 1989, on page 7. A bullet was inadvertently omitted under I. PROGRAM SPECIFICATIONS, B. Research Scope. The additional area of research recommended includes:

- o Behavior and Psychosocial Risk Factors, Complications and Interventions

SPECIAL EMPHASIS RESEARCH CAREER AWARD (SERCA) IN LABORATORY ANIMAL SCIENCE

P.T. 34; K.W. 0201058, 0710030

Division of Research Resources

Application Receipt Date: June 1, 1989

The ongoing program announcement titled as above, which was published in the NIH Guide for Grants and Contracts, Vol. 18, No. 7, March 3, 1989, incorrectly contained reference to an anticipated number of awards to be made under this announcement (refer to APPLICATION section of the announcement). The sentence, which reads, "Approximately 35-40 awards are expected to be made under this announcement" should be disregarded in its entirety.

Questions regarding this correction should be addressed to:

Director, Laboratory Animal Sciences Program, ARP  
Division of Research Resources  
National Institutes of Health  
Westwood Building, Room 853  
5333 Westbard Avenue  
Bethesda, Maryland 20892  
Telephone: (301) 496-5175