

# NIH GUIDE

*A F* JAN 7 1977  
for GRANTS  
and CONTRACTS

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

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#### HAVE YOU MOVED?

If your present address differs from that shown on the address label, please send your new address to: Room 2A14, 5333 Westbard Avenue, National Institutes of Health, Bethesda, Maryland 20014, and attach your address label to your letter. Prompt notice of your change of address will prevent your name being removed from our mailing list.

*The GUIDE is published at irregular intervals to provide policy and administrative information to individuals and organizations who need to be kept informed of requirements and changes in grants and contracts activities administered by the National Institutes of Health.*

*Supplements, printed on yellow paper, are published by the respective awarding units concerning new projects, solicitations of sources, and requests for proposals.*

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MINORITY ACCESS TO RESEARCH CAREERS

(MARC PROGRAM)

VISITING SCIENTIST AWARD

A N N O U N C E M E N T

The Minority Access to Research Careers (MARC) Program of the National Institute of General Medical Sciences (NIGMS) is accepting applications for MARC Visiting Scientist Awards. The program is designed to assist minority institutions in the training of greater numbers of scientists and teachers in health-related fields.

The purpose of the MARC Visiting Scientist Awards is to provide support for outstanding scientist-teachers to serve in the capacity of visiting scientists at four-year colleges, universities, and health professional schools where student enrollments are drawn substantially from ethnic minority groups (American Indians, Blacks, Mexican-Americans, or Puerto Ricans). The primary intent is to strengthen research and teaching programs in health research fields for the benefit of students and faculty in these institutions by drawing upon the special talents of scientists from other institutions. Reciprocal benefits should also accrue to the MARC awardee through the added experience to be gained by involvement in innovative science education and research development programs.

Applications for these awards must be presented by the eligible academic institutions. A proposal must include arrangements for the visiting scientist to reside in the campus community and participate fully in programs of teaching, development of research, and/or counseling as outlined by the institution. Evidence of negotiation and preliminary, tentative agreement between the applicant college and the named scientist-teacher nominated to serve as the MARC Visiting Scientist should be provided in the application. Individuals nominated as visiting scientists in this program should be recognized scientist-scholars in such biomedical science fields as cellular and molecular biology, genetics, pharmacology, toxicology, biomedical engineering, physiological sciences, and/or clinical research areas.

Stipends, Tenure, and Allowances Stipends are determined on an individual basis according to the nominee's current salary at his/her institution of employment. Any expected concurrent sabbatical or any other salary support for the proposed period in residence will be taken into account.

Proposals may request support for the MARC awardees for periods normally ranging from one academic quarter to a maximum of one year.

A travel allowance equivalent to round trip coach airfare between the visiting scientist's home institution and the sponsoring institution may be provided for the awardee. No allowance is provided for transportation of dependents or personal goods. Upon request, the sponsoring institution will be given up to \$3,000 allowance for costs of supplies, supporting services and demonstration costs related to activities proposed for the visiting scientist.

Review Procedure Applications are necessarily competitive because the number of awards which can be provided in any one year is limited. Review is provided by a committee of consultants, including minority representatives, from appropriate scientific fields (primarily from the academic community). The evaluation is based upon the nature of the proposed activities of the visiting scientist and the benefits expected to accrue from the planned program. Awards are based primarily upon the recommendations of the reviewing committee but also involve consideration of the availability of funds and the relevance of the proposal to the program goals of the Institute.

<u>Application Receipt Date</u>	<u>Advisory Council Review</u>	<u>Results Announced by</u>	<u>Earliest Possible Start Date</u>
February 1	Sept./Oct.	November	December 1
June 1	Jan./Feb.	March	April 1
October 1	May	June	July 1

Notification of final action is provided by letter from the National Institute of General Medical Sciences.

Further information and application forms may be obtained from Director, MARC Program, National Institute of General Medical Sciences, National Institutes of Health, Bethesda, Maryland 20014, telephone (301) 496-7357. Appropriate institutional officials and scientist-scholars may correspond with Program staff for counseling in the preparation of applications.

CLINICAL INVESTIGATOR AWARD

NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM,

AND DIGESTIVE DISEASES

A N N O U N C E M E N T

Purpose The National Institute of Arthritis, Metabolism, and Digestive Diseases announces the availability of NIAMDD Clinical Investigator Awards in selected areas relevant to:

Arthritis, Bone, and Skin Diseases (See also Vol. 5,  
No. 20, 11/30/76)  
Diabetes, Endocrine, and Metabolic Diseases  
Digestive Diseases and Nutrition  
Kidney, Urologic, and Blood Diseases

These awards provide the opportunity for promising clinically-trained individuals with demonstrated aptitude in research to develop into independent biomedical investigators in the fields of: arthritis, dermatology, diabetes, digestive diseases, endocrinology, hematology, kidney diseases, liver diseases, metabolism and metabolic diseases, nutrition, orthopedics, and urology.

The award, made to the institution, is designed to foster growth of superior candidates toward independent research. It enables candidates to investigate, for up to three years, a well-defined problem with a sponsor (or sponsors) competent to provide guidance in the chosen problem. It is anticipated that this award provides research support in the transition between fellowship or trainee experience and a career in independent investigation. The Clinical Investigator Award differs from the NIH Research Career Development Award in that it specifically seeks to develop research ability in individuals with clinical background and training.

Eligibility Candidates are restricted to those holding health-professional degrees in the clinical sciences (M.D., D.O., D.V.M., or equivalent) with four to seven years of total professional postdoctoral clinical and research experience by the projected start of the award. It is expected that candidates will have a minimum of two years of clinical experience and two years of research training. In exceptional circumstances, individuals with less than four, and more than seven, years of such experience may apply, but must justify those special circumstances. The award is designed to provide intensive guided research experience for clinicians. Therefore, holders of the Ph.D. or comparable research degrees, either with or without an accompanying health professional degree, are not eligible. Individuals holding the academic position of associate professor or professor at the time of award are not eligible for the Clinical Investigator Award. Candidates should have broad training, should demonstrate individual competence in clinical activities, and should show research potential in the chosen area of interest. Candidates should provide evidence of a serious intent for an academic career related to that area.

A noncitizen is not eligible to apply unless lawfully admitted to the United States for permanent residence. Determination of the acceptability of applications is made by the National Institutes of Health.

The grantee institution must be a domestic university, medical school, or comparable institution with strong, well-established research and training programs in the chosen area, adequate numbers of highly trained faculty in clinical and basic departments relevant to the chosen area, and interest and capability to provide guidance to clinically trained individuals in the development of research independence.

Conditions of the Award The Clinical Investigator Award is made on an annual basis, with additional years of recommended support, for a total nonrenewable and nontransferable period of a maximum of three years. Support is based on a full-time, twelve-month staff appointment. The awardee will be provided salary support not to exceed \$25,000 annually from NIAMDD funds for the three-year period. The actual salary must be consistent with the established salary structure of the institution for persons of equivalent qualifications, experience, and rank. Up to a total of \$10,000 annually will be provided for supplies, equipment, travel, etc., which are necessary for pursuit of the awardee's research program. Funds will be provided for the reimbursement of actual indirect costs at a rate of up to, but not to exceed, 8% of the total direct costs of each award. When requested, the grantee institution's share of the fringe benefits may be paid as a direct cost (if not included as an indirect cost) on that proportion of the employee's salary provided by the NIAMDD Clinical Investigator Award. The applicant is expected to spend a minimum of 75% of time in research. An appropriate sponsor must assume responsibility and provide guidance for the research development in the chosen area.

Institutions may apply for awards in behalf of named individuals meeting the above criteria. It is not essential for the applicant institution to commit itself in the application to eventual placement of the candidate on its permanent, full-time faculty, but it is expected that institutions will choose the candidate with criteria for that decision in mind. Evidence of the commitment of the institution to the candidate's research development must be provided.

Review Criteria Applications for the Clinical Investigator Award receive initial merit review by an NIH peer review panel, and subsequently by the National Arthritis, Metabolism, and Digestive Diseases Advisory Council. Criteria for review include:

- the applicant's training in research and clinical experience in the specified area of interest
- the applicant's plans for research development
- the applicant's potential for a career in independent research in the area proposed
- the applicant's commitment to a research career in the area of interest

- the applicant institution's commitment to providing the necessary facilities and opportunities necessary to the individual's research development
- the ability and plans of the sponsor (or sponsors) who will provide the applicant with the guidance and experience necessary for career development in clinical investigation
- presence of highly-trained faculty in clinical and basic departments relevant to the area of study
- the applicant institution's research and training programs in the area of study.

Application and Further Information Applications for NIAMDD Clinical Investigator Awards are accepted in accord with the usual NIH application receipt dates of February 1, June 1, and October 1. It is important that potential applicants consult with staff of the NIAMDD prior to the submission of applications to determine if the proposed program fits the criteria and the mission of the Institute. Further information and application materials may be obtained from:

Office of the Associate Director  
for Extramural Program Activities  
National Institute of Arthritis,  
Metabolism, and Digestive Diseases  
Bethesda, Maryland 20014

CATARACT RESEARCH GRANT APPLICATIONS

SOUGHT BY

THE NATIONAL EYE INSTITUTE

A N N O U N C E M E N T

Under authority of Section 451 of the Public Health Service Act as amended (42 U.S.C., ch. 6A, subch. III) the National Eye Institute has a continuing interest in developing the knowledge base which eventually will make possible the medical treatment and/or prevention of cataract. Toward this end, the study of the human lens in health and disease is an endeavor of obvious importance. This announcement re-emphasizes this interest and invites research grant applications in this area. Supplemental applications from current grantees who wish to expand their studies to include human lens materials also are invited.

Applications involving either laboratory or clinical research or both are of interest for this program. Support will be through the NEI research project grant. Inquiries and preliminary drafts should be addressed to Chief, Scientific Programs Branch, National Eye Institute, National Institutes of Health, Bethesda, Maryland 20014, telephone (301) 496-5301.

Applicants must use the regular research grant application (form NIH or PHS 398) which is available at institutional central application control offices. The completed application should be mailed to the Division of Research Grants, National Institutes of Health, Bethesda, Maryland 20014, where it will then be assigned according to the NIH referral guidelines for research grants. All applications will be reviewed through the Division of Research Grants Study Section mechanism and where assigned to the NEI, by the National Advisory Eye Council. Applications recommended for approval will compete for available funds with all other approved applications assigned to the NEI.

The receipt dates for applications are March 1, July 1, and November 1. The earliest possible award dates will be approximately nine months after receipt dates. Applications received too late for one cycle of review will be held for the next.

The support through an NEI research project grant is subject to applicable laws, regulations, and the policies to be found in the *PHS Grants Policy Statement*, dated October 1, 1976, DHEW Publication No. (OS) 77-50,000.



CLINICAL APPLICATIONS OF PSYCHOPHYSICAL AND

PHYSIOLOGICAL OPTICS TECHNIQUES

RESEARCH GRANT APPLICATIONS SOUGHT BY

THE NATIONAL EYE INSTITUTE

A N N O U N C E M E N T

Under authority of Section 451 of the Public Health Service Act as amended (42 U.S.C., ch. 6A, subch. III) the National Eye Institute supports a wide variety of laboratory and clinical investigations that bear on disorders of visual information transmission, perceptual synthesis, and oculomotor control. Research employing anatomical, neurophysiological, biochemical, psychophysical, and behavioral methods is being supported, when addressed to the etiology, diagnosis or treatment of such disorders as optic nerve degenerations, amblyopia, strabismus, retinitis pigmentosa, diseases of the macula and retinal vascular disorders.

The purpose of this announcement is to restate NEI's interest in the development of concepts and techniques in psychophysics and physiological optics that contribute to improved ophthalmic diagnosis and encompasses research in measurement of resolution and acuity, visual fields, color testing, adaptometry, binocular vision and motility, infant testing procedures as well as electrophysiological correlates of visual perception.

Support will be through the NEI research project grant. Inquiries and preliminary drafts should be addressed to Chief, Scientific Programs Branch, National Institutes of Health, Bethesda, Maryland 20014, telephone (301) 496-5301.

Applicants must use the regular research grant application (form NIH or PHS 398) which is available at institutional central application control offices. The completed application should be mailed to the Division of Research Grants, National Institutes of Health, Bethesda, Maryland 20014, where it will then be assigned according to the NIH referral guidelines for research grants. All applications will be reviewed through the Division of Research Grants Study Section mechanism and where assigned to the NEI by the National Advisory Eye Council. Applications recommended for approval will compete for available funds with all other approved applications assigned the NEI.

The receipt date for applications are March 1, July 1, and November 1. The earliest possible award dates will be approximately nine months after receipt dates. Applications received too late for one cycle of review will be held for the next.

The support through an NEI research project grant is subject to applicable laws, regulations, and the policies to be found in the *PHS Grants Policy Statement*, dated October 1, 1976, DHEW Publication No. (OS) 77-50,000.

EYE DISEASES ASSOCIATED WITH DIABETES MELLITUS

RESEARCH GRANT APPLICATIONS SOUGHT BY

THE NATIONAL EYE INSTITUTE

A N N O U N C E M E N T

Under authority of Section 451 of the Public Health Service Act as amended (42 U.S.C., ch. 6A, subch. III) the National Eye Institute has a continuing interest in the study of diabetic retinopathy and other ocular complications associated with diabetes mellitus and related disorders of the small blood vessels. The purpose of this announcement is to re-emphasize this interest and to invite research grant applications concerned with the pathogenesis, etiology, diagnosis, and treatment of the visual system disorders which accompany diabetes mellitus. Studies are encouraged in the following areas: (1) vasoproliferative and inhibitory factors; (2) vascular and retinal metabolism; (3) retinal and choroidal blood flow; (4) blood rheology and clotting factors; (5) physical chemistry, biochemistry, and physiology of the vitreous in maintenance of blood-retinal barriers and vitreous and retinal metabolism and structure; (6) immunology of vitreous and retina in relation to diabetic retinopathy; (7) neovascular glaucoma and other ocular complications of neovascularization; (8) etiology and treatment of sugar cataract; and (9) pathogenesis and possibilities for treatment of diabetic optic neuropathology and oculomotor disorders.

Applications involving either laboratory or clinical research or both are of interest for this program. Support will be through the NEI research project grant. Inquiries and preliminary drafts should be addressed to Chief, Scientific Programs Branch, National Eye Institute, National Institutes of Health, Bethesda, Maryland 20014, telephone (301) 496-5301.

Applicants must use the regular research grant application (form NIH or PHS 398) which is available at institutional central application control offices. The completed application should be mailed to the Division of Research Grants, National Institutes of Health, Bethesda, Maryland 20014, where it will then be assigned according to the NIH referral guidelines for research grants. Applications will be reviewed through the Division of Research Grants Study Section mechanism and where assigned to the NEI by the National Advisory Eye Council. Applications recommended for approval will compete for available funds with all other approved applications assigned to the NEI.

The receipt date for applications are March 1, July 1, and November 1. The earliest possible award dates will be approximately nine months after receipt dates. Applications received too late for one cycle of review will be held for the next.

The support through an NEI research project grant is subject to applicable laws, regulations, and the policies to be found in the *PHS Grants Policy Statement*, dated October 1, 1976, DHEW Publication No. (OS) 77-50,000.

ANIMAL MODELS OF VISUAL ABNORMALITIES AND DISORDERS

RESEARCH GRANT APPLICATIONS SOUGHT BY

THE NATIONAL EYE INSTITUTE

A N N O U N C E M E N T

Under authority of Section 451 of the Public Health Service Act as amended (42 U.S.C., ch. 6A, subch. III) the National Eye Institute has a continuing interest in the study of a variety of genetic, developmental, degenerative, infectious, and toxic disorders of the visual receptors and neural pathways. Animal analogs of such human disorders as congenital eye defects, hereditary degenerations of the retina, demyelinating diseases of the optic nerve, vascular and circulatory abnormalities of the retina, and elevated intra-ocular pressure can be most useful in such studies. Research grant applications are therefore invited for the discovery of such models, for the exploration and characterization of their properties, and for their further development.

Research on animal models may be into their genetic, morphological, physiological, biochemical, or behavioral aspects. NEI will consider all of these kinds of investigations for support insofar as they bear on visual disorders. Examples are: (1) studies of anophthalmia and other mutants; (2) the effects of fetal prenatal infectious disease on the visual system, and (3) experimental teratology of the eye and optic pathways. Applications addressing the above topics from both clinical and laboratory environments are invited.

Support generally will be through the NEI research project grant. The contract mechanism will be considered for those cases where an animal model is well characterized, but support is needed for the maintenance of special colonies and national distribution of animals to qualified investigators. Inquiries or preliminary drafts should be addressed to the Chief, Scientific Programs Branch, National Eye Institute, National Institutes of Health, Bethesda, Maryland 20014, telephone (301) 496-5301.

Applicants must use the regular research grant application (form NIH or PHS 398) which is available at institutional central application control offices. The completed application should be mailed to the Division of Research Grants, National Institutes of Health, Bethesda, Maryland 20014, where it will then be assigned according to the NIH referral guidelines for research grants. All applications will be reviewed through the Division of Research Grants Study Section mechanism and, if assigned to the NEI, by the National Advisory Eye Council. Applications recommended for approval will compete for available funds with all other approved applications assigned to the NEI.

The receipt dates for applications are March 1, July 1, and November 1. The earliest possible award dates will be approximately 9 months after receipt dates. Applications received too late for one cycle of review will be held for the next.

The support through an NEI research project grant is subject to applicable laws, regulations, and the policies to be found in the *PHS Grants Policy Statement*, dated October 1, 1976, DHEW Publication No. (OS) 77-50,000.