

# NSF SCHOLAR-IN-RESIDENCE AT NIH

NSF 98-48



**National Science Foundation**



**National Institutes of Health**

The NSF, through its Directorate for Mathematical and Physical Sciences and Directorate for Engineering, and the NIH have established the NSF Scholar-In-Residence at NIH activity as a partnership to enable investigators in the mathematical and physical sciences and engineering to develop research collaborations within the intramural research environment at the NIH. This experiment is designed to help bridge the interests of the research communities served by NSF and the NIH, and to catalyze productive interactions that can enrich both. The activity will emphasize those efforts in which the expertise of mathematical and physical scientists and engineers can be utilized in the development of innovative applications of science and engineering in addressing significant research questions in the medical and biological sciences. The interaction will focus on the introduction of innovative new research directions, tools, and methodologies.

The activity is open to mathematical and physical scientists and engineers who are interested in making connections between their research and current and future problems in the medical and biological sciences. Emphasis is placed on establishing new collaborations for scientists and engineers who are not well-coupled to these research communities. Applicants must hold tenured, tenure-track, or senior research faculty positions at U.S. academic institutions, and have had no funding from the NIH. Participants in the program are expected to spend a minimum of six months to a maximum of one year, either consecutively or staggered within an 18-month time frame, working within the NIH intramural research program. NIH will seek to integrate and enrich the experience of NSF Scholars within the NIH community, thereby enabling the established interactions to continue to grow beyond the time in residence and contributing to greater diversity in education for the Scholars' students.

A principal investigator may apply at any time for support for this activity as a supplement to an existing NSF grant or through a new proposal, depending on the preference of the participating NSF program. Submissions should be made to the disciplinary program in the participating Directorate in which the Principal Investigator would normally have his/her research supported. All applications must be accompanied by a letter of invitation from NIH, following procedures described more fully below. Interested applicants should contact the designated Directorate coordinator to learn more about the procedures for application and evaluation. The NIH will host up to 10 NSF Scholars to be in residence at any one time during the period of this activity. All requests for support will be considered on their merits for allocation of funds in competition with all other proposals. Submissions must be in accordance with the NSF Grant Proposal Guide (GPG 98-2) [<http://www.nsf.gov/cgi-bin/getpub?gpg>].

NSF support for this activity will be for summer salary, travel, and *per diem* costs for the visiting NSF Scholar while on the NIH campus, as well as travel costs associated with short-term visits to the NIH campus by students working with the Scholar at his/her home institution. It is expected that the home institution of the Scholar will cost share through sabbatical salary or other resources. NIH will provide office space, research facilities, research costs in the form of expendable and minor equipment purchases to the host laboratory, and the time of its research staff. NSF will also, as appropriate, assist with funds for transporting specialized pieces of equipment between the Scholar's laboratory and NIH for use in the collaborative research.

Application to NSF for this activity requires a letter of invitation from one or more senior investigators in the intramural research program at the NIH, endorsed by the institute scientific director, stating that the NIH investigator's laboratory will host the applicant and collaborate in the proposed research and outlining the commitments the host laboratory will make to the project. Potential applicants must identify contacts within NIH, either independently or through NIH assistance. Information about NIH staff and research areas can be found by searching the NIH web site [<http://www.nih.gov>], which has biographies and scientific research interests of the intramural research staff. Applicants should submit to the NIH coordinating committee for this program a white paper (800-word maximum text format) outlining the proposed project, including their vision for new directions for the field, at the following e-mail address: [bonner@helix.nih.gov](mailto:bonner@helix.nih.gov). This paper should be accompanied by a biographical sketch in the standard two-page NSF format, a list of current and pending support, and a statement that the applicant has not been supported by NIH. While prior identification of possible collaborators is strongly encouraged, the NIH coordinating committee will also assist in making linkages with possible collaborators through dissemination of the white paper within NIH on a web page accessible to internal NIH search.

General questions about the NSF Scholar-in-Residence at NIH activity can be addressed to the Directorate coordinators at NSF:

Mathematical and Physical Sciences, Dr. Denise Caldwell ([dcaldwel@nsf.gov](mailto:dcaldwel@nsf.gov));

Engineering, Dr. Rajinder Khosla ([rkhosla@nsf.gov](mailto:rkhosla@nsf.gov));

or to the coordinator at NIH:

Dr. Robert Bonner ([bonner@helix.nih.gov](mailto:bonner@helix.nih.gov)).

Participating Directorates/Divisions:

Directorate for Mathematical and Physical Sciences [<http://www.nsf.gov/mps>]

Division of Physics

Division of Chemistry

Division of Materials Research

Division of Mathematical Sciences

Division of Astronomical Sciences

Directorate for Engineering [<http://www.eng.nsf.gov>]

Division of Electrical and Communications Systems

Division of Chemical and Transport Systems

Division of Bioengineering and Environmental Systems

Division of Engineering Education and Centers

Division of Civil and Mechanical Systems

Division of Design, Manufacture, and Industrial Innovation

The Foundation provides awards for research and education in the sciences and engineering. The awardee is wholly responsible for the conduct of such research and preparation of the results for publication. The Foundation, therefore, does not assume responsibility for the research findings or their interpretation.

The Foundation welcomes proposals from all qualified scientists and engineers and strongly encourages women, minorities, and persons with disabilities to compete fully in any of the research and education related programs described here. In accordance with federal statutes, regulations, and NSF policies, no person on grounds of race, color, age, sex, national origin, or disability shall be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving financial assistance from the National Science Foundation.

Facilitation Awards for Scientists and Engineers with Disabilities (FASSED) provide funding for special assistance or equipment to enable persons with disabilities (investigators and other staff, including student research assistants) to work on NSF projects. See the program announcement or contact the program coordinator at (703) 306-1636.

The National Science Foundation has TDD (Telephonic Device for the Deaf) capability, which enables individuals with hearing impairment to communicate with the Foundation about NSF programs, employment, or general information. To access NSF TDD, dial (703) 306-0090; for FIRS, 1-800-877-8339.

#### PRIVACY ACT AND PUBLIC BURDEN STATEMENTS

The information requested on proposal forms and project reports is solicited under the authority of the National Science Foundation Act of 1950, as amended. The information on proposal forms will be used in connection with the selection of qualified proposals; project reports submitted by awardees will be used for program evaluation and reporting within the Executive Branch and to Congress. The information requested may be disclosed to qualified reviewers and staff assistants as part of the application review process; to applicant institutions/grantees to provide or obtain data regarding the application review process, award decisions, or the administration of awards; to government contractors, experts, volunteers and researchers as necessary to complete assigned work; to other government agencies needing information as part of the review process or in order to coordinate programs; and to another Federal agency, court or party in a court or Federal administrative proceeding if the government is a party. Information about Principal Investigators may be added to the Reviewer file and used to select potential candidates to serve as peer reviewers or advisory committee members. See Systems of Records, NSF-50, "Principal Investigator/Proposal File and Associated Records," 63 Federal Register 267 (January 5, 1998), and NSF-51, "Reviewer/Proposal File and Associated Records," 63 Federal Register 268 (January 5, 1998). Submission of the information is voluntary. Failure to provide full and complete information, however, may reduce the possibility of receiving an award.

Public reporting burden for this collection of information is estimated to average 120 hours per response, including the time for reviewing instructions. Send comments regarding this burden estimate and any other aspect of this collection of information, including suggestions for reducing this burden, to: Reports Clearance Officer; Information Dissemination Branch, DAS; National Science Foundation; Arlington, VA 22230.

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Catalog of Federal Domestic Assistance:

47.041 - Engineering

47.049 - Mathematical and Physical Sciences

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