

Partnerships in Astronomy & Astrophysics Research and Education (PAARE)

Program Solicitation

NSF 07-561



National Science Foundation

Directorate for Mathematical & Physical Sciences
Division of Astronomical Sciences

Full Proposal Deadline(s) (due by 5 p.m. proposer's local time):

August 03, 2007

August 03, 2008

August 3, Annually Thereafter

REVISION NOTES

In furtherance of the President's Management Agenda, NSF has identified programs that will offer proposers the option to utilize Grants.gov to prepare and submit proposals, or will require that proposers utilize Grants.gov to prepare and submit proposals. Grants.gov provides a single Government-wide portal for finding and applying for Federal grants online.

In response to this program solicitation, proposers may opt to submit proposals via Grants.gov or via the [NSF FastLane](#) system.

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:

Partnerships in Astronomy & Astrophysics Research and Education (PAARE)

Synopsis of Program:

The objective of PAARE is to enhance diversity in astronomy and astrophysics research and education by stimulating the development of formal, long-term, collaborative research and education partnerships between minority serving colleges and universities and the NSF Astronomical Sciences Division (AST)-supported facilities, projects or faculty members at research institutions including private observatories.

Cognizant Program Officer(s):

- Brian Patten, telephone: (703) 292-4910, email: bpatten@nsf.gov
- Dana Lehr, telephone: (703) 292-7456, email: dlehr@nsf.gov
- Tammy Bosler, AAAS Fellow, 1045, telephone: (703) 292-8248, fax: (703) 292-9034, email: tbosler@nsf.gov

Applicable Catalog of Federal Domestic Assistance (CFDA) Number(s):

- 47.049 --- Mathematical and Physical Sciences

Award Information

Anticipated Type of Award: Standard Grant or Continuing Grant

Estimated Number of Awards: 3 to 5 The estimated number of awards will be 3 to 5.

Anticipated Funding Amount: \$2,000,000 The total anticipated funding amount in FY 2008 is up to \$2,000,000 subject to the availability of funds. Awards are expected to have a range of budgets depending upon the scope of the partnership.

Eligibility Information

Organization Limit:

Proposals may only be submitted by the following:

- A minority serving college or university. See 'Eligible Academic Institutions' in this program solicitation for a complete description.

PI Limit:

The principal Investigator must hold a faculty appointment at a minority-serving college or university.

Limit on Number of Proposals per Organization:

None Specified

Limit on Number of Proposals per PI:

None Specified

Proposal Preparation and Submission Instructions

A. Proposal Preparation Instructions

- **Letters of Intent:** Not Applicable
- **Full Proposals:**
 - Full Proposals submitted via FastLane: Grant Proposal Guide (GPG) Guidelines apply. The complete text of the GPG is available electronically on the NSF website at: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=gpg.
 - Full Proposals submitted via Grants.gov: NSF Grants.gov Application Guide: A Guide for the Preparation and Submission of NSF Applications via Grants.gov Guidelines apply (Note: The NSF Grants.gov Application Guide is available on the Grants.gov website and on the NSF website at: <http://www.nsf.gov/bfa/>)

B. Budgetary Information

- **Cost Sharing Requirements:** Cost Sharing is not required by NSF.
- **Indirect Cost (F&A) Limitations:** Not Applicable
- **Other Budgetary Limitations:** Not Applicable

C. Due Dates

- **Full Proposal Deadline(s)** (due by 5 p.m. proposer's local time):

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Proposal Review Information Criteria

Merit Review Criteria: National Science Board approved criteria. Additional merit review considerations apply. Please see the full text of this solicitation for further information.

Award Administration Information

Award Conditions: Standard NSF award conditions apply

Reporting Requirements: Standard NSF reporting requirements apply

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I. INTRODUCTION

The National Science Foundation's mandate to ensure vitality of the Nation's scientific and engineering enterprise includes concerns for the quality of and access to astronomy and astrophysics education for all Americans. Within this context, it is recognized that minority-serving colleges and universities along with NSF-supported facilities, projects and individual investigators at research institutions represent rich resources for improving minority access to careers in astronomy and astrophysics.

The PAARE (Partnerships in Astronomy & Astrophysics Research and Education) program described in this solicitation is designed to improve and strengthen the education infrastructure in astronomy and astrophysics, and to increase recruitment, retention and degree attainment by members of groups underrepresented in the field.

The PAARE program is intended to enhance the quantity and quality of astronomy and astrophysics research opportunities for students and faculty members at participating minority-serving colleges and universities. The program will produce models for developing long-term astronomy and astrophysics education and research relationships between minority-serving colleges and universities and NSF-supported facilities, projects or faculty members at research institutions

II. PROGRAM DESCRIPTION

The objective of PAARE is to enhance diversity in astronomy and astrophysics research and education by stimulating the development of formal, potentially long-term, collaborative research and education relationships between minority-serving colleges and universities and the NSF-supported facilities, projects or faculty members at research institutions (including private observatories).

PAARE awards are expected to achieve significant increases in the number and quality of interactions between participants from the NSF-supported facilities, projects or faculty at research institutions and students and faculty at minority-serving colleges and universities, and should result in increasing graduate astronomy and astrophysics degrees for underrepresented minorities and in networking and dissemination of new knowledge.

The Division of Astronomical Sciences and the Directorate for Mathematical and Physical Sciences Office of Multidisciplinary Activities (OMA) are looking to help foster educational and research partnerships that utilize talented students at minority serving colleges and universities by establishing opportunities for them to develop their scientific skills. Such partnerships will also serve the needs of the partnering facility by collaborating with and teaching traditionally underrepresented students who bring a unique set of experiences and perspective to the research. Additionally, new opportunities will be had by students at the partnering academic institutions as the research efforts on both sides of the partnership are expected to expand. The PAARE partnership can also help to transform the academic structure of minority serving colleges or universities by providing the resources to build a research community in schools that have a heavy emphasis on teaching.

As retention of traditionally underrepresented students is key to the success of this program, a solid mentoring scheme is vital. PAARE awards are expected to help build a foundation for students at an early point in their careers and help these students make the next step in their careers. The partnerships are intended to provide education and mentoring as a form of professional development to help these students succeed long after their work on the PAARE research.

As a means to determine the effectiveness of mentoring, education and research, the PAARE awardees are expected to carefully consider how the program can be assessed to determine if goals are being met. It is important that the partnership has a guiding vision as a whole, and it is also important to determine what success means at each level of the partnership.

III. AWARD INFORMATION

Estimated program budget, number of awards and average award size/duration are subject to the availability of funds.

IV. ELIGIBILITY INFORMATION

Organization Limit:

Proposals may only be submitted by the following:

- A minority serving college or university. See 'Eligible Academic Institutions' in this program solicitation for a complete description.

PI Limit:

The principal Investigator must hold a faculty appointment at a minority-serving college or university.

Limit on Number of Proposals per Organization:

None Specified

Limit on Number of Proposals per PI:

None Specified

Additional Eligibility Info:

Eligible Activities:

Support will be provided for activities that facilitate development of formal long-term astronomy and astrophysics research and education relationships between minority serving colleges and universities and NSF-supported facilities, projects or faculty members at research institutions described below. Funded activities might include, but are not limited to, the development of collaborative and mutually beneficial astronomy-related research and education projects, support for graduate and undergraduate students and exchanges of faculty and students. Well-prepared high-school students may also participate.

Of special interest to AST and OMA are activities based on research and education connections between the participants, and designed to increase recruitment, retention and degree attainment by members of groups underrepresented in astronomy and astrophysics research. Proposers are encouraged to contact NSF program staff listed in Section VII to discuss the appropriateness of the planned activities.

Eligible Academic Institutions:

PAARE proposals may only be submitted by minority-serving colleges and universities, including Historically Black Colleges and Universities (HBCUs), Hispanic-serving institutions (HSIs), and Tribally Controlled Colleges (TCCs). Each PAARE proposal must be submitted in collaboration with (and may include a subaward to) one or more NSF-supported facilities, projects or partnering faculty members at research institutions.

Colleges and universities eligible to participate in this activity must offer baccalaureate degrees in physics or astronomy and meet at least one of the following criteria:

1. Be designated by the Department of Higher Education in FY 1994 as a Hispanic-serving Institution (HSI) under Title III of the Higher Education Act of 1965, as amended [See 20 USC 1059 (copyright symbol); Public Law 102-325, Section 316, July 22, 1992].
2. Be designated by the Department of Education as a Historically Black College or University (HBCU) under Title III of the Higher Education Act of 1965, as amended (see 34 CFR 608.2).

3. Be cited as a Tribal College or University in Section 532 of the Equity in Education Land-Grant Status October of 1964; Tribally Controlled Community College Assistance Act of 1978, Public Law 95-471.
4. Be a college or university whose undergraduate enrollment consists of at least 50% one or more ethnic minorities underrepresented in science and engineering in the US, and not a Doctoral/ Research University-Extensive institution in the Carnegie classification (for the Carnegie classification see <http://www.carnegiefoundation.org/classifications/index.asp?key=785>). African American, Hispanic Americans, Native Americans or Native Alaskans and Hawaiian/Pacific islanders are ethnic minorities underrepresented in science and engineering in the US.

Partnering institutions or organizations may be any institution or organization eligible for NSF funding that supports a research program in astronomy and astrophysics including AST-funded facilities and also private observatories. Research groups and individual scientists at research institutions are also eligible partners, provided their institution shows evidence of commitment to the proposed program as demonstrated in a letter from the institution describing its support of the partnership. Proposals may include subawards to the partnering institution, provided it has demonstrated a commitment to the activity at least for the duration of the PAARE grant.

V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions

Full Proposal Preparation Instructions: Proposers may opt to submit proposals in response to this Program Solicitation via Grants.gov or via the NSF FastLane system.

- Full proposals submitted via FastLane: Proposals submitted in response to this program solicitation should be prepared and submitted in accordance with the general guidelines contained in the NSF Grant Proposal Guide (GPG). The complete text of the GPG is available electronically on the NSF website at: http://www.nsf.gov/publications/pub_summ.jsp?ods_key=gpg. Paper copies of the GPG may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from pubs@nsf.gov. Proposers are reminded to identify this program solicitation number in the program solicitation block on the NSF Cover Sheet For Proposal to the National Science Foundation. Compliance with this requirement is critical to determining the relevant proposal processing guidelines. Failure to submit this information may delay processing.
- Full proposals submitted via Grants.gov: Proposals submitted in response to this program solicitation via Grants.gov should be prepared and submitted in accordance with the NSF Grants.gov Application Guide: A Guide for the Preparation and Submission of NSF Applications via Grants.gov. The complete text of the NSF Grants.gov Application Guide is available on the Grants.gov website and on the NSF website at: (<http://www.nsf.gov/bfa/dias/policy/docs/grantsgovguide.pdf>). To obtain copies of the Application Guide and Application Forms Package, click on the Apply tab on the Grants.gov site, then click on the Apply Step 1: Download a Grant Application Package and Application Instructions link and enter the funding opportunity number, (the program solicitation number without the NSF prefix) and press the Download Package button. Paper copies of the Grants.gov Application Guide also may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from pubs@nsf.gov.

Supplemental proposal preparation instructions appear below.

The following items should be included and/or addressed in the Project Description section of the proposal (limit 15 pages):

- Describe the goals and the mission of the partnership.
- Describe *in detail* the planned research and education programs demonstrating how the partnership benefits all involved parties (both at the MSI and the partnering institution). The proposal will be judged on the strength of the research as well as the strength of the proposed partnership.
- Describe the potential impact of the project on the science, education, and building of a diverse community of astronomers and astrophysicists, and how their results would be disseminated.
- Clearly define the mentoring scheme. This may include student and faculty mentorship.
- Describe the role of the NSF-supported facility (or facilities), project or partnering faculty members at a research institution.
- Outline the management plan.
- Describe how the research and education plans will be internally evaluated including an assessment scheme.
- List of Participants: Provide a list of participating faculty or staff from all academic institutions involved in the

partnership. List each participant by full name, and her/his institutional and departmental affiliation. Also, enter each name in Add/Delete Non Co-PI Senior Personnel FastLane Form. If submitting via Grants.gov, instructions for entering additional senior project participants are included in Section V.5. of the NSF Grants.gov Application Guide. (Note: All faculty participants should have a biographical sketch and a list of current and pending support included in the corresponding section of the proposal.)

- The partnering institution or institutions must submit a statement indicating support of the proposed activities and the resources that will be provided to carry out the project. This will need to be uploaded in the "Supplemental Documents" section.

The budget justification should explain clearly the connection between the requested funds and the proposed activities for the main budget and any funding requested through subawards.

B. Budgetary Information

Cost Sharing: Cost sharing is not required by NSF in proposals submitted to the National Science Foundation.

C. Due Dates

- **Full Proposal Deadline(s)** (due by 5 p.m. proposer's local time):

August 03, 2007

August 03, 2008

August 3, Annually Thereafter

D. FastLane/Grants.gov Requirements

- **For Proposals Submitted Via FastLane:**

Detailed technical instructions regarding the technical aspects of preparation and submission via FastLane are available at: <https://www.fastlane.nsf.gov/a1/newstan.htm>. For FastLane user support, call the FastLane Help Desk at 1-800-673-6188 or e-mail fastlane@nsf.gov. The FastLane Help Desk answers general technical questions related to the use of the FastLane system. Specific questions related to this program solicitation should be referred to the NSF program staff contact(s) listed in Section VIII of this funding opportunity.

Submission of Electronically Signed Cover Sheets. The Authorized Organizational Representative (AOR) must electronically sign the proposal Cover Sheet to submit the required proposal certifications (see Chapter II, Section C of the Grant Proposal Guide for a listing of the certifications). The AOR must provide the required electronic certifications within five working days following the electronic submission of the proposal. Further instructions regarding this process are available on the FastLane Website at: <https://www.fastlane.nsf.gov/fastlane.jsp>.

- **For Proposals Submitted Via Grants.gov:**

Before using Grants.gov for the first time, each organization must register to create an institutional profile. Once registered, the applicant's organization can then apply for any federal grant on the Grants.gov website. The Grants.gov's Grant Community User Guide is a comprehensive reference document that provides technical information about Grants.gov. Proposers can download the User Guide as a Microsoft Word document or as a PDF document. The Grants.gov User Guide is available at: <http://www.grants.gov/Customersupport>. In addition, the NSF Grants.gov Application Guide provides additional technical guidance regarding preparation of proposals via Grants.gov. For Grants.gov user support, contact the Grants.gov Contact Center at 1-800-518-4726 or by email: support@grants.gov. The Grants.gov Contact Center answers general technical questions related to the use of Grants.gov. Specific questions related to this program solicitation should be referred to the NSF program staff contact(s) listed in Section VIII of this solicitation.

Submitting the Proposal: Once all documents have been completed, the Authorized Organizational Representative (AOR) must submit the application to Grants.gov and verify the desired funding opportunity and agency to which the application is submitted. The AOR must then sign and submit the application to Grants.gov. The completed application will be transferred to the NSF FastLane system for further processing.

VI. NSF PROPOSAL PROCESSING AND REVIEW PROCEDURES

Proposals received by NSF are assigned to the appropriate NSF program and, if they meet NSF proposal preparation requirements, for review. All proposals are carefully reviewed by a scientist, engineer, or educator serving as an NSF Program Officer, and usually by three to ten other persons outside NSF who are experts in the particular fields represented by the proposal. These reviewers are selected by Program Officers charged with the oversight of the review process. Proposers are invited to suggest names of persons they believe are especially well qualified to review the proposal and/or persons they would prefer not review the proposal. These suggestions may serve as one source in the reviewer selection process at the Program Officer's discretion. Submission of such names, however, is optional. Care is taken to ensure that reviewers have no conflicts with the proposer.

A. NSF Merit Review Criteria

All NSF proposals are evaluated through use of the two National Science Board (NSB)-approved merit review criteria: intellectual merit and the broader impacts of the proposed effort. In some instances, however, NSF will employ additional criteria as required to highlight the specific objectives of certain programs and activities.

The two NSB-approved merit review criteria are listed below. The criteria include considerations that help define them. These considerations are suggestions and not all will apply to any given proposal. While proposers must address both merit review criteria, reviewers will be asked to address only those considerations that are relevant to the proposal being considered and for which the reviewer is qualified to make judgements.

What is the intellectual merit of the proposed activity?

How important is the proposed activity to advancing knowledge and understanding within its own field or across different fields? How well qualified is the proposer (individual or team) to conduct the project? (If appropriate, the reviewer will comment on the quality of the prior work.) To what extent does the proposed activity suggest and explore creative and original concepts? How well conceived and organized is the proposed activity? Is there sufficient access to resources?

What are the broader impacts of the proposed activity?

How well does the activity advance discovery and understanding while promoting teaching, training, and learning? How well does the proposed activity broaden the participation of underrepresented groups (e.g., gender, ethnicity, disability, geographic, etc.)? To what extent will it enhance the infrastructure for research and education, such as facilities, instrumentation, networks, and partnerships? Will the results be disseminated broadly to enhance scientific and technological understanding? What may be the benefits of the proposed activity to society?

NSF staff will give careful consideration to the following in making funding decisions:

Integration of Research and Education

One of the principal strategies in support of NSF's goals is to foster integration of research and education through the programs, projects, and activities it supports at academic and research institutions. These institutions provide abundant opportunities where individuals may concurrently assume responsibilities as researchers, educators, and students and where all can engage in joint efforts that infuse education with the excitement of discovery and enrich research through the diversity of learning perspectives.

Integrating Diversity into NSF Programs, Projects, and Activities

Broadening opportunities and enabling the participation of all citizens -- women and men, underrepresented minorities, and persons with disabilities -- is essential to the health and vitality of science and engineering. NSF is committed to this principle of diversity and deems it central to the programs, projects, and activities it considers and supports.

Additional Review Criteria:

The PAARE proposals will also be evaluated on the following:

- Are the goals and mission of the partnership clearly defined and achievable, and are they building an equal partnership between the MSI and research institution?
- Is there a clearly defined mentoring scheme for students? Does the PI understand the issues involved with

- recruiting, retaining and mentoring students from underrepresented groups
- Is the role of the partnering facility (or facilities), project or individual investigator clearly stated - Does the proposal demonstrate a strong partnership?
- Is the planned research and education program sound and feasible?
- Is there a long-term vision for the project?
- Is the management plan sound? Does the organization chart contain appropriate participants?
- Is the plan for assessment of the impact, dissemination of the results and progress of the project reasonable?
- Has the partnering institution or institutions demonstrated a commitment to supporting the proposed activities and the resources that will be provided to carry out the project?

B. Review and Selection Process

Proposals submitted in response to this program solicitation will be reviewed by Ad hoc Review and/or Panel Review.

Reviewers will be asked to formulate a recommendation to either support or decline each proposal. The Program Officer assigned to manage the proposal's review will consider the advice of reviewers and will formulate a recommendation.

After scientific, technical and programmatic review and consideration of appropriate factors, the NSF Program Officer recommends to the cognizant Division Director whether the proposal should be declined or recommended for award. NSF is striving to be able to tell applicants whether their proposals have been declined or recommended for funding within six months. The time interval begins on the date of receipt. The interval ends when the Division Director accepts the Program Officer's recommendation.

A summary rating and accompanying narrative will be completed and submitted by each reviewer. In all cases, reviews are treated as confidential documents. Verbatim copies of reviews, excluding the names of the reviewers, are sent to the Principal Investigator/Project Director by the Program Officer. In addition, the proposer will receive an explanation of the decision to award or decline funding.

In all cases, after programmatic approval has been obtained, the proposals recommended for funding will be forwarded to the Division of Grants and Agreements for review of business, financial, and policy implications and the processing and issuance of a grant or other agreement. Proposers are cautioned that only a Grants and Agreements Officer may make commitments, obligations or awards on behalf of NSF or authorize the expenditure of funds. No commitment on the part of NSF should be inferred from technical or budgetary discussions with a NSF Program Officer. A Principal Investigator or organization that makes financial or personnel commitments in the absence of a grant or cooperative agreement signed by the NSF Grants and Agreements Officer does so at their own risk.

VII. AWARD ADMINISTRATION INFORMATION

A. Notification of the Award

Notification of the award is made to *the submitting organization* by a Grants Officer in the Division of Grants and Agreements. Organizations whose proposals are declined will be advised as promptly as possible by the cognizant NSF Program administering the program. Verbatim copies of reviews, not including the identity of the reviewer, will be provided automatically to the Principal Investigator. (See Section VI.B. for additional information on the review process.)

B. Award Conditions

An NSF award consists of: (1) the award letter, which includes any special provisions applicable to the award and any numbered amendments thereto; (2) the budget, which indicates the amounts, by categories of expense, on which NSF has based its support (or otherwise communicates any specific approvals or disapprovals of proposed expenditures); (3) the proposal referenced in the award letter; (4) the applicable award conditions, such as Grant General Conditions (GC-1); * or Federal Demonstration Partnership (FDP) Terms and Conditions * and (5) any announcement or other NSF issuance that may be incorporated by reference in the award letter. Cooperative agreements also are administered in accordance with NSF Cooperative Agreement Financial and Administrative Terms and Conditions (CA-FATC) and the applicable Programmatic Terms and Conditions. NSF awards are electronically signed by an NSF Grants and Agreements Officer and transmitted electronically to the organization via e-mail.

*These documents may be accessed electronically on NSF's Website at <http://www.nsf.gov/awards/managing/>

[general_conditions.jsp?org=NSF](#). Paper copies may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from pubs@nsf.gov.

More comprehensive information on NSF Award Conditions and other important information on the administration of NSF awards is contained in the NSF *Award & Administration Guide* (AAG) Chapter II, available electronically on the NSF Website at http://www.nsf.gov/publications/pub_summ.jsp?ods_key=aag.

C. Reporting Requirements

For all multi-year grants (including both standard and continuing grants), the Principal Investigator must submit an annual project report to the cognizant Program Officer at least 90 days before the end of the current budget period. (Some programs or awards require more frequent project reports). Within 90 days after expiration of a grant, the PI also is required to submit a final project report.

Failure to provide the required annual or final project reports will delay NSF review and processing of any future funding increments as well as any pending proposals for that PI. PIs should examine the formats of the required reports in advance to assure availability of required data.

PIs are required to use NSF's electronic project-reporting system, available through FastLane, for preparation and submission of annual and final project reports. Such reports provide information on activities and findings, project participants (individual and organizational) publications; and, other specific products and contributions. PIs will not be required to re-enter information previously provided, either with a proposal or in earlier updates using the electronic system. Submission of the report via FastLane constitutes certification by the PI that the contents of the report are accurate and complete.

VIII. AGENCY CONTACTS

General inquiries regarding this program should be made to:

- Brian Patten, telephone: (703) 292-4910, email: bpatten@nsf.gov
- Dana Lehr, telephone: (703) 292-7456, email: dlehr@nsf.gov
- Tammy Bosler, AAAS Fellow, 1045, telephone: (703) 292-8248, fax: (703) 292-9034, email: tbosler@nsf.gov

For questions related to the use of FastLane, contact:

- FastLane Help Desk, telephone: 1-800-673-6188; e-mail: fastlane@nsf.gov.

For questions relating to Grants.gov contact:

- Grants.gov Contact Center: If the Authorized Organizational Representatives (AOR) has not received a confirmation message from Grants.gov within 48 hours of submission of application, please contact via telephone: 1-800-518-4726; e-mail: support@grants.gov.

IX. OTHER INFORMATION

The NSF Website provides the most comprehensive source of information on NSF Directorates (including contact information), programs and funding opportunities. Use of this Website by potential proposers is strongly encouraged. In addition, MyNSF (formerly the Custom News Service) is an information-delivery system designed to keep potential proposers and other interested parties apprised of new NSF funding opportunities and publications, important changes in proposal and award policies and procedures, and upcoming NSF Regional Grants Conferences. Subscribers are informed through e-mail or the user's Web browser each time new publications are issued that match their identified interests. MyNSF also is available on NSF's Website at <http://www.nsf.gov/mynsf/>.

Grants.gov provides an additional electronic capability to search for Federal government-wide grant opportunities. NSF funding opportunities may be accessed via this new mechanism. Further information on Grants.gov may be obtained at <http://www.grants.gov>.

ABOUT THE NATIONAL SCIENCE FOUNDATION

The National Science Foundation (NSF) is an independent Federal agency created by the National Science Foundation Act of 1950, as amended (42 USC 1861-75). The Act states the purpose of the NSF is "to promote the progress of science; [and] to advance the national health, prosperity, and welfare by supporting research and education in all fields of science and engineering."

NSF funds research and education in most fields of science and engineering. It does this through grants and cooperative agreements to more than 2,000 colleges, universities, K-12 school systems, businesses, informal science organizations and other research organizations throughout the US. The Foundation accounts for about one-fourth of Federal support to academic institutions for basic research.

NSF receives approximately 40,000 proposals each year for research, education and training projects, of which approximately 11,000 are funded. In addition, the Foundation receives several thousand applications for graduate and postdoctoral fellowships. The agency operates no laboratories itself but does support National Research Centers, user facilities, certain oceanographic vessels and Antarctic research stations. The Foundation also supports cooperative research between universities and industry, US participation in international scientific and engineering efforts, and educational activities at every academic level.

Facilitation Awards for Scientists and Engineers with Disabilities provide funding for special assistance or equipment to enable persons with disabilities to work on NSF-supported projects. See Grant Proposal Guide Chapter II, Section D.2 for instructions regarding preparation of these types of proposals.

The National Science Foundation has Telephonic Device for the Deaf (TDD) and Federal Information Relay Service (FIRS) capabilities that enable individuals with hearing impairments to communicate with the Foundation about NSF programs, employment or general information. TDD may be accessed at (703) 292-5090 and (800) 281-8749, FIRS at (800) 877-8339.

The National Science Foundation Information Center may be reached at (703) 292-5111.

The National Science Foundation promotes and advances scientific progress in the United States by competitively awarding grants and cooperative agreements for research and education in the sciences, mathematics, and engineering.

To get the latest information about program deadlines, to download copies of NSF publications, and to access abstracts of awards, visit the NSF Website at <http://www.nsf.gov>

- **Location:** 4201 Wilson Blvd. Arlington, VA 22230
- **For General Information** (NSF Information Center): (703) 292-5111
- **TDD (for the hearing-impaired):** (703) 292-5090
- **To Order Publications or Forms:**
 - Send an e-mail to: pubs@nsf.gov
 - or telephone: (703) 292-7827
- **To Locate NSF Employees:** (703) 292-5111

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; and 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 proposal review process; to proposer institutions/grantees to provide or obtain data regarding the proposal review process, award decisions, or the administration of awards; to government contractors, experts, volunteers and researchers and educators as necessary to complete assigned work; to other government agencies or other entities needing information regarding applicants or nominees as part of a joint application review process, or in order to coordinate programs or policy; 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," 69 Federal Register 26410 (May 12, 2004), and NSF-51, "Reviewer/Proposal File and Associated Records," 69 Federal Register 26410 (May 12, 2004). Submission of the information is voluntary. Failure to provide full and complete information, however, may reduce the possibility of receiving an award.

An agency may not conduct or sponsor, and a person is not required to respond to, an information collection unless it displays a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 3145-0058. 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 the burden estimate and any other aspect of this collection of information, including suggestions for reducing this burden, to:

Suzanne H. Plimpton
Reports Clearance Officer
Division of Administrative Services
National Science Foundation
Arlington, VA 22230

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Tel: (703) 292-5111, FIRS: (800) 877-8339 | TDD: (800) 281-8749

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