

## **Partnerships for Innovation (PFI)**

**FY 2005**

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### **Program Solicitation**

**NSF 05-566**

*Replaces Document NSF 04-556*



#### **National Science Foundation**

Directorate for Engineering  
Office of Polar Programs  
Directorate for Biological Sciences  
Directorate for Computer and Information Science and Engineering  
Directorate for Education and Human Resources  
Directorate for Geosciences  
Directorate for Mathematical and Physical Sciences  
Directorate for Social, Behavioral, and Economic Sciences

### **Letter of Intent Due Date(s) (optional):**

April 01, 2005

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

June 03, 2005

## **SUMMARY OF PROGRAM REQUIREMENTS**

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### **General Information**

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#### **Program Title:**

Partnerships for Innovation (PFI)  
FY 2005

#### **Synopsis of Program:**

The goals of the Partnerships for Innovation Program are to: 1) stimulate the transformation of knowledge created by the national research and education enterprise into innovations that create new wealth, build strong local, regional and national economies and improve the national well-being; 2) broaden the participation of all types of academic institutions and all citizens in NSF activities to more fully meet the broad workforce needs of the national innovation enterprise; and 3) catalyze or enhance enabling infrastructure necessary to foster and sustain innovation in the long-term. To develop a set of ideas for pursuing these goals, this competition will support 15-25 promising partnerships among academe, state/local/federal government and the private sector that will explore new approaches to support and sustain innovation.

#### **Cognizant Program Officer(s):**

- John C Hurt, Program Director, Directorate for Engineering, telephone: (703) 292-5332, fax: (703) 292-9051, email: [jhurt@nsf.gov](mailto:jhurt@nsf.gov)

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

- 47.074 --- Biological Sciences
- 47.070 --- Computer and Information Science and Engineering
- 47.076 --- Education and Human Resources

- 47.041 --- Engineering
- 47.050 --- Geosciences
- 47.049 --- Mathematical and Physical Sciences
- 47.078 --- Office of Polar Programs
- 47.075 --- Social, Behavioral and Economic Sciences

## Eligibility Information

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- **Organization Limit:**

**Limitation on the categories of organizations that are eligible to submit proposals:** Proposals must be submitted by U.S. universities and colleges located in the U.S., its territories and possessions, including universities, two-and four-year colleges and community colleges, hereafter referred to as universities and colleges, or academic institutions. A Partnership proposal must be submitted as a single administrative package by the lead institution. The submitting institution must serve as the lead institution or partner in the proposed partnership, that is, as the institution responsible for overall management of the partnership activity with administrative responsibility for the proposed effort. Partners may include, but are not limited to, other academic institutions, not-for-profit organizations, private sector firms, entrepreneurs, venture capitalists, state and local government entities, trade and professional associations, and Federal laboratories. At a minimum, proposed partnerships must include academic institutions and private sector organizations. Partnerships that include state/local government entities are strongly encouraged.

- **PI Eligibility Limit:**

A senior institutional administrator (dean or higher) in the lead institution must serve as Principal Investigator or Co-Principal Investigator.

- **Limit on Number of Proposals:** Eligible organizations may participate in no more than two partnership proposals. Such institutions may submit only one partnership proposal as the lead institution.

## Award Information

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- **Anticipated Type of Award:** Standard Grant
- **Estimated Number of Awards:** 15 to 25
- **Anticipated Funding Amount:** \$9,000,000 in FY2005 pending availability of funds, and quality of proposals. Awards of up to \$600,000 with an award duration of two or three years is expected pending the availability of funds and quality of proposals.

## Proposal Preparation and Submission Instructions

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### A. Proposal Preparation Instructions

- **Letters of Intent:** Submission of Letters of Intent is optional. Please see the full text of this solicitation for further information.
- **Full Proposal Preparation Instructions:** This solicitation contains information that supplements the standard Grant Proposal Guide (GPG) proposal preparation guidelines. Please see the full text of this solicitation for further information.

### B. Budgetary Information

- **Cost Sharing Requirements:** Cost Sharing is not required by NSF.
- **Indirect Cost (F&A) Limitations:** Not Applicable.
- **Other Budgetary Limitations:** Other budgetary limitations apply. Please see the full text of this solicitation for further information.

### C. Due Dates

- **Letters of Intent (optional):**  
April 01, 2005
- **Full Proposal Deadline Date(s)** (due by 5 p.m. proposer's local time):  
June 03, 2005

## Proposal Review Information

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- **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

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- **Award Conditions:** Standard NSF award conditions apply.
- **Reporting Requirements:** Standard NSF reporting requirements apply.

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#### I. INTRODUCTION

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Innovation in science and technology has been the dominant source of productivity gains and new enterprises in the U.S. economy over the last fifty years, accounting for as much as fifty percent of U.S. economic growth. Innovation is the transformation of scientific and technological advances into new products, processes, systems, and services. Innovation has created astonishing, tangible benefits to society, including improved healthcare, transportation, and computer-communications capacities. Much of the capacity for innovation in the U.S. has resulted from Federal funding of research. For 50 years, NSF has enabled innovation through its support of discovery and the production of a scientifically and technologically knowledgeable workforce second to none. More recently, NSF has established centers and developed other programs that facilitate knowledge and technology transfer to the private sector. Since businesses and industries today are more dependent on research and technology advances and since the product development cycle in all industry sectors is more rapid than before, NSF's traditional roles are more proximate and relevant to economic development than at any time in our past.

In the Partnerships for Innovation program NSF seeks to stimulate and capitalize on innovation by catalyzing partnerships among colleges and universities, state and local governments, the private sector and other relevant organizations. Key factors in the innovation enterprise include creation of and access to new knowledge; a scientifically and technologically literate workforce prepared to capitalize on new knowledge; and an infrastructure that enables innovation. For the purposes of this program, innovation explicitly extends both to developing the people and tools and to creating the necessary organizational conditions to foster the transformation of knowledge into the products, processes, systems and services that fuel economic development, create wealth and generate improvements in the national standard of living. The academic

institutions that are NSF's traditional clientele play an essential role in generating new knowledge and creating a scientifically and technologically literate workforce.

Partnerships are an important means for developing an innovation capability that links new knowledge and a knowledge-rich workforce to economic growth and other societal benefits. Partnerships involving various combinations of colleges and universities, private sector firms, and local, state, and federal governments, have the potential to increase the value of each of the partners' portfolios, and to mobilize innovation in a systemic manner. For example, private sector firms gain access to new knowledge and a workforce that can capitalize on it; academe gains financial support, the ability to capitalize on intellectual property, and access to real-world problems for field training; and local and state governments gain sustainable regional and local economic development activities. Students moving into the workplace facilitate the innovation process.

Some of the nation's colleges and universities have a long tradition of active research and education programs and strong connections to the private sector, and many have offices responsible for enabling knowledge transfer and stimulating the growth of new businesses. However, few academic institutions have all of the necessary capacity to provide the infrastructure to foster innovation. Institutions that have not participated as actively in Federal R&D programs may not have capabilities and infrastructure that are as finely honed.

Likewise, many states have taken action to develop programs that facilitate innovation. Colleges and universities in some states have access to an infrastructure that allows them to tie their research emphases to areas the state regards as important. This infrastructure enables innovation at the state and local level where innovation generally happens; at the same time it enhances the institutions' ability to conduct research. States without this infrastructure may find it more difficult to take full advantage of opportunities for innovation.

## II. PROGRAM DESCRIPTION

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The Partnerships for Innovation program is intended to forge connections between new knowledge created in the discovery process to learning and innovation, while broadening the participation of people and institutions in NSF activities. For the purposes of this program, innovation is defined as the transformation of knowledge into the products, processes, systems and services that fuel economic development, create wealth and generate improvements in the national standard of living. The goals of the program are to:

- Stimulate the transformation of knowledge created by the national research and education enterprise into innovations that create new wealth, build strong local, regional and national economies, and improve the national well-being;
- Broaden the participation of all types of academic institutions and all citizens in NSF activities to more fully meet the broad workforce needs of the national innovation enterprise; and
- Catalyze or enhance enabling infrastructure necessary to foster and sustain innovation in the long-term.

In order to accomplish these goals, proposals may propose any one or combination of the following activities: (1) research, technology transfer, and/or commercialization, (2) workforce education and/or training, and (3) establishing the infrastructure to accomplish or enable innovation. Proposals should show how all activities being proposed are related to innovation as the ultimate outcome. Proposals should also have a plan to ensure that the innovation can be sustained in the long term. Innovation should be the proposed outcome. Formation of partnerships should not be proposed as the outcome. Appropriate activities for projects in the program might also include the planning and/or implementation of new models for innovation that connect scientific and technological discovery to use through knowledge transfer; education and training activities that explicitly address the workforce needs of the innovation enterprise; and the development and deployment of new tools or mechanisms that support the innovation infrastructure. They may focus on creating a critical level of innovation activity in a technology area, an industry sector, or a geographical region. Since many emerging and small businesses fail for lack of sufficient business or marketing expertise, partnerships could include participation of the business or management schools where appropriate.

At a minimum, proposed Partnerships must include academic institutions as the lead and private sector organizations as partners. Partnerships that also include state/local government entities are strongly encouraged. The outcomes for proposed activities must foster economic and/or societal well-being that can be self-sustaining in the long term. In all Partnerships, NSF seeks to optimize the participation of the private sector to foster innovation-driven growth per se, as well as to ensure appropriate workforce development activities. Since innovation is critically dependent upon a diverse workforce poised to innovate, Partnerships led by and involving academic institutions of all types are essential for the program's success. The participation of institutions that serve groups currently underrepresented in the science, engineering and technological workforce, as well as those institutions that serve regions and or sectors not yet fully participating in the innovation enterprise, is strongly encouraged. NSF seeks to enhance the roles such institutions play in contributing to and participating in innovation.

Partnerships for Innovation may:

- Capitalize upon the shared interests of regional academic institutions, local and state governments and the private sector to contribute to the innovation enterprise;
- Enable small- and medium-sized businesses to utilize the resources and capabilities of academic institutions;
- Promote and enable innovation as a specific goal by increasing the scientific and technological capabilities of the workforce;
- Strengthen the capabilities of all academic institutions to contribute to the innovation process;
- Enable technological innovation through the synergistic development, integration and transfer of new knowledge to partners that can create economic or societal well-being; and
- Create and validate new generalized models that integrate research and education capacity to create a critical level of technological innovation in a state or a region.

This competition will support the planning and early implementation of new activities designed to support and sustain innovation in the long-term. A complete list of all current Partnerships for Innovation awards, with project descriptions is available at <http://www.nsf.gov/home/crssprgm/pfi/> The list of current awards is not to be interpreted to cover the entire range of activities or goals that can be proposed.

### III. ELIGIBILITY INFORMATION

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**Proposing Partnerships:** Each proposed Partnership must designate a lead organization; the lead organizations must be U. S. universities and colleges located in the U.S., its territories and possessions, including universities, two-and four-year colleges and community colleges. Partners may include, but are not limited to, not-for-profit institutions, private sector firms, state and local government entities, trade and professional associations, entrepreneurs, venture capitalists, and Federal laboratories. At a minimum, proposed Partnerships must include academic institutions and private sector organizations. Partnerships that include state/local government entities are strongly encouraged. A Partnership proposal must be submitted as a single administrative package by the lead institution, which is responsible for overall management of the Partnership activity and has administrative responsibility for the proposed effort.

**PI Eligibility Limit:** A senior institutional administrator (dean or higher) in the lead institution must serve as Principal Investigator or Co-Principal Investigator.

**Limit on Number of Proposals:** Eligible institutions may submit only one partnership proposal as the lead institution.

### IV. AWARD INFORMATION

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NSF will make 15-25 awards totaling approximately \$9.0 million, pending availability of funds and quality of proposals. Proposed Partnerships may request from NSF total budgets up to \$600,000 for total award durations of two or three years. It is anticipated that award decisions will be publicly announced by October 2005.

### V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

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#### A. Proposal Preparation Instructions

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##### Letters of Intent (*optional*):

The Principal Investigator at the lead institution representing a Partnership intending to submit a proposal is encouraged to submit a letter of intent (LOI) must be submitted through FastLane by April 1, 2005. The LOI should briefly describe the proposed activity, the organizations and senior personnel involved in the Partnership. This description must not exceed 300 words. The LOI allows NSF to prepare for the review process. **The LOI is not mandatory and is non-binding.**

## Full Proposal Instructions:

Proposals submitted in response to this program announcement/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](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](mailto:pubs@nsf.gov).

Proposers are reminded to identify the program announcement/solicitation number (05-566) in the program announcement/solicitation block on the proposal Cover Sheet. Compliance with this requirement is critical to determining the relevant proposal processing guidelines. Failure to submit this information may delay processing.

## B. Budgetary Information

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### Cost Sharing:

Cost sharing is not required by NSF in proposals submitted under this Program Solicitation.

### Other Budgetary Limitations:

**Budget Limitations:** Proposed Partnerships may request from NSF, total budgets up to \$600,000 for total award durations of two or three years. NSF will not provide salary support for personnel employed by Federal Agencies or Federally Funded Research and Development Centers.

**Travel:** Cost for travel for the PI for one trip to Washington DC per year to report on progress or participate in workshops should be included in the requested budget.

## C. Due Dates

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Proposals must be submitted by the following date(s):

### Letters of Intent (*optional*):

April 01, 2005

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

June 03, 2005

## D. FastLane Requirements

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Proposers are required to prepare and submit all proposals for this announcement/solicitation through the FastLane system. Detailed instructions for proposal 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](mailto: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 announcement/solicitation should be referred to the NSF program staff contact(s) listed in Section VIII of this announcement/solicitation.

*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. Proposers are no longer required to provide a paper copy of the signed Proposal Cover Sheet to NSF. Further instructions regarding this process are available on the FastLane Website at: <http://www.fastlane.nsf.gov>

## VI. PROPOSAL REVIEW INFORMATION

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### A. NSF Proposal Review Process

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Reviews of proposals submitted to NSF are solicited from peers with expertise in the substantive area of the proposed research or education project. These reviewers are selected by Program Officers charged with the oversight of the review process. NSF invites the proposer to suggest, at the time of submission, the names of appropriate or inappropriate reviewers. Care is taken to ensure that reviewers have no conflicts with the proposer. Special efforts are made to recruit reviewers from non-academic institutions, minority-serving institutions, or adjacent disciplines to that principally addressed in the proposal.

The National Science Board approved revised criteria for evaluating proposals at its meeting on March 28, 1997 ([NSB 97-72](#)). All NSF proposals are evaluated through use of the two merit review criteria. In some instances, however, NSF will employ additional criteria as required to highlight the specific objectives of certain programs and activities.

On July 8, 2002, the NSF Director issued [Important Notice 127](#), Implementation of new Grant Proposal Guide Requirements Related to the Broader Impacts Criterion. This Important Notice reinforces the importance of addressing both criteria in the preparation and review of all proposals submitted to NSF. NSF continues to strengthen its internal processes to ensure that both of the merit review criteria are addressed when making funding decisions.

In an effort to increase compliance with these requirements, the January 2002 issuance of the GPG incorporated revised proposal preparation guidelines relating to the development of the Project Summary and Project Description. Chapter II of the GPG specifies that Principal Investigators (PIs) must address both merit review criteria in separate statements within the one-page Project Summary. This chapter also reiterates that broader impacts resulting from the proposed project must be addressed in the Project Description and described as an integral part of the narrative.

Effective October 1, 2002, NSF will return without review proposals that do not separately address both merit review criteria within the Project Summary. It is believed that these changes to NSF proposal preparation and processing guidelines will more clearly articulate the importance of broader impacts to NSF-funded projects.

The two National Science Board approved merit review criteria are listed below (see the [Grant Proposal Guide](#) Chapter III.A for further information). 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 he/she is qualified to make judgments.

**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:**

- Responsiveness of the proposal to the goals of the Partnerships for Innovation program;
- The degree to which the proposed activity will stimulate new innovation opportunities for the partner

- organizations;
- The potential impact of the proposed innovation activities on the economic and/or societal well-being of the region;
- Potential of the proposed Partnership to foster and sustain innovation in the long-term;
- The degree to which the institutions that serve groups currently underrepresented in the science, engineering and technological workforce are involved in the proposed innovation activity; and,
- The degree to which institutions that serve regions and/or sectors not yet fully participating in the innovation enterprise contribute to the proposed activities.

In making the final award decisions, NSF will also consider:

- Geographic distribution and diversity of lead institutions;
- Likely distribution of societal impacts; and
- Distribution of technology or industry sectors served.

## **B. Review Protocol and Associated Customer Service Standard**

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All proposals are carefully reviewed by at least three other persons outside NSF who are experts in the particular field represented by the proposal. Proposals submitted in response to this announcement/solicitation will be reviewed by panels, three members of which will provide written reviews .

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.

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 Director. In addition, the proposer will receive an explanation of the decision to award or decline funding.

In most cases, proposers will be contacted by the Program Officer after his or her recommendation to award or decline funding has been approved by the Division Director. This informal notification is not a guarantee of an eventual award.

NSF is striving to be able to tell proposers whether their proposals have been declined or recommended for funding within six months. The time interval begins on the closing date of an announcement/solicitation, or the date of proposal receipt, whichever is later. The interval ends when the Division Director accepts the Program Officer's recommendation.

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**

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### **A. Notification of the Award**

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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 Division 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.A. for additional information on the review process.)

### **B. Award Conditions**

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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 (NSF-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 agreement awards also are administered in accordance

with NSF Cooperative Agreement Terms and Conditions (CA-1). Electronic mail notification is the preferred way to transmit NSF awards to organizations that have electronic mail capabilities and have requested such notification from the Division of Grants and Agreements.

\*These documents may be accessed electronically on NSF's Website at <http://www.nsf.gov/awards/managing/>. Paper copies may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from [pubs@nsf.gov](mailto:pubs@nsf.gov).

More comprehensive information on NSF Award Conditions is contained in the NSF *Grant Policy Manual* (GPM) Chapter II, available electronically on the NSF Website at [http://www.nsf.gov/publications/pub\\_summ.jsp?ods\\_key=gpm](http://www.nsf.gov/publications/pub_summ.jsp?ods_key=gpm). The GPM is also for sale through the Superintendent of Documents, Government Printing Office (GPO), Washington, DC 20402. The telephone number at GPO for subscription information is (202) 512-1800. The GPM may be ordered through the GPO Website at <http://www.gpo.gov>.

### C. Reporting Requirements

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For all multi-year grants (including both standard and continuing grants), the PI must submit an annual project report to the cognizant Program Officer at least 90 days before the end of the current budget period.

Within 90 days after the expiration of an award, the PI also is required to submit a final project report. Failure to provide final technical reports delays NSF review and processing of pending proposals for the PI and all Co-PIs. 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. This system permits electronic submission and updating of project reports, including information on project participants (individual and organizational), activities and findings, 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.

### VIII. CONTACTS FOR ADDITIONAL INFORMATION

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General inquiries regarding this program should be made to:

- John C Hurt, Program Director, Directorate for Engineering, telephone: (703) 292-5332, fax: (703) 292-9051, email: [jhurt@nsf.gov](mailto:jhurt@nsf.gov)

For questions related to the use of FastLane, contact:

- Esther Bolding, FastLane Contact, ENG/EEC, telephone: 703-292-8380, fax: 703-292-9051, email: [EBolding@nsf.gov](mailto:EBolding@nsf.gov)

### IX. OTHER PROGRAMS OF INTEREST

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The NSF *Guide to Programs* is a compilation of funding for research and education in science, mathematics, and engineering. The NSF *Guide to Programs* is available electronically at <http://www.nsf.gov/cgi-bin/getpub?gp>. General descriptions of NSF programs, research areas, and eligibility information for proposal submission are provided in each chapter.

Many NSF programs offer announcements or solicitations concerning specific proposal requirements. To obtain additional information about these requirements, contact the appropriate NSF program offices. Any changes in NSF's fiscal year programs occurring after press time for the *Guide to Programs* will be announced in the NSF *E-Bulletin*, which is updated daily on the NSF Website at <http://www.nsf.gov/home/ebulletin>, and in individual program announcements/solicitations. Subscribers can also sign up for NSF's *MyNSF News Service* (<http://www.nsf.gov/mynsf/>) to be notified of new funding opportunities that become available.

## ABOUT THE NATIONAL SCIENCE FOUNDATION

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The National Science Foundation (NSF) funds research and education in most fields of science and engineering. Awardees are wholly responsible for conducting their project activities and preparing the results for publication. Thus, the Foundation does not assume responsibility for such findings or their interpretation.

NSF welcomes proposals from all qualified scientists, engineers and educators. The Foundation strongly encourages women, minorities and persons with disabilities to compete fully in its programs. 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 subjected to discrimination under any program or activity receiving financial assistance from NSF, although some programs may have special requirements that limit eligibility.

*Facilitation Awards for Scientists and Engineers with Disabilities (FASED)* provide funding for special assistance or equipment to enable persons with disabilities (investigators and other staff, including student research assistants) to work on NSF-supported projects. See the GPG Chapter II, Section D.2 for instructions regarding preparation of these types of proposals.

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](mailto:pubs@nsf.gov)
  - or telephone: (703) 292-7827
  
- **To Locate NSF Employees:** (703) 292-5111

## PRIVACY ACT AND PUBLIC BURDEN STATEMENTS

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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 proposal review process; to applicant 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 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.

An agency may not conduct or sponsor, and a person is not required to respond to an information collection unless it displays a valid 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 this burden estimate and any other aspect of this collection of information, including suggestions for reducing this burden, to: Suzanne Plimpton, Reports Clearance Officer, Division of Administrative Services, National Science Foundation, Arlington, VA 22230.

OMB control number: 3145-0058.

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The National Science Foundation, 4201 Wilson Boulevard, Arlington, Virginia 22230, USA  
Tel: (703) 292-5111, FIRS: (800) 877-8339 | TDD: (800) 281-8749

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