

Grants for the Analysis of Science and Technology (S&T) Resources

**S&T Workforce, Funding, Impacts, Outputs, and
International Studies**

Program Announcement

NSF 00-111

DIVISION OF SCIENCE RESOURCES STATISTICS

TARGET DATE(S):

September 18 of each year



NATIONAL SCIENCE FOUNDATION



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- **To Locate NSF Employees:** (703) 292-5100

SUMMARY OF PROGRAM REQUIREMENTS

GENERAL INFORMATION

Program Title: Grants for the Analysis of Science and Technology (S&T) Resources

Synopsis of Program: The Division of Science Resources Statistics (SRS) of the National Science Foundation (NSF) is responsible for the development of data and analysis pertaining to the Nation's scientific and technological (S&T) endeavors. SRS uses this information to prepare a number of analytical reports including the National Science Board's biennial report, Science and Engineering (S&E) Indicators. As part of the input, planning and development of future S&E Indicators reports as well as the Division's other analytical and statistical efforts, SRS also supports analytical and theoretical efforts by others. SRS welcomes proposals for research, workshops and studies leading to improved approaches to indicator development and presentation, new S&T indicator development, and better understanding of the S&T enterprise in the United States and globally under its Grants for the Analysis of Science and Technology Resources. (This grants program supercedes the "Program for the Analysis of Science and Technology Resources." There is no difference between the programs except for the name change.) SRS is keenly interested in the development of new approaches to the analysis and presentation of data as indicators, with a particular focus on effective methods of presenting complex information as indicators.

Cognizant Program Officer(s):

- Derek Hill, Analyst, Science Resources Studies, Rm. 965, telephone: 703-292-7805, e-mail: dhill@nsf.gov.

Applicable Catalog of Federal Domestic Assistance (CFDA) Number:

- 47.075 --- Social, Behavioral and Economic Sciences

ELIGIBILITY INFORMATION

- **Organization Limit:** Proposals may be submitted by colleges, universities, and nonprofit or commercial organizations, or combinations of such organizations. Awards to individuals without organizational affiliation are rare but not precluded. Individuals intending to submit a proposal are encouraged to contact the appropriate program officer well before the proposal's formal submission.
- **PI Eligibility Limit:** None
- **Limit on Number of Proposals:** None

AWARD INFORMATION

- **Anticipated Type of Award:** Standard Grant
- **Estimated Number of Awards:** 4-6
- **Anticipated Funding Amount:** Approximately \$400,000 will be allocated annually to fund this program subject to the availability of funds.

PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Guidelines

- **Proposal Preparation Instructions:** Standard Preparation Guidelines
 - Standard GPG Guidelines apply.

B. Budgetary Information

- **Cost Sharing Requirements:** Statutory Cost Sharing (1%) is required
- **Indirect Cost (F&A) Limitations:** Not Applicable.
- **Other Budgetary Limitations:** Not Applicable.

C. Deadline/Target Dates

- **Letter of Intent Due Date(s):** None
- **Preproposal Due Date(s):** None
- **Full Proposal Due Date(s):**

September 18 of each year

D. FastLane Requirements

- **FastLane Submission:** Full Proposal Required
- **FastLane Contact(s):**
 - Clauette Merrick, Administrative Officer, Science Resources Statistics, Rm. 965, telephone: 703-292-4899, e-mail: srsfl@nsf.gov.
 - Deborah Collins, Survey Operation Specialist, Science Resources Statistics, Rm. 965, telephone: 703-306-1777x6929, e-mail: srsfl@nsf.gov.

PROPOSAL REVIEW INFORMATION

- **Merit Review Criteria:** National Science Board approved criteria. Additional merit review considerations apply. Please see the full program announcement/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 Division of Science Resources Statistics (SRS) of the National Science Foundation (NSF) is responsible for the development of data and analysis pertaining to the Nation's scientific and technological (S&T) endeavors. SRS uses this information to prepare a number of analytical reports including the National Science Board's biennial report, Science and Engineering (S&E) Indicators. As part of the input, planning and development of future S&E Indicators reports as well as the Division's other analytical and statistical efforts, SRS also supports analytical and theoretical efforts by others.

In 1972 the Science Board began the development of a system of indicators for describing the state of science and technology in the Nation[1] . The precise definition of indicators and their use is a subject of study on its own[2] . S&T Indicators represent broad professional consensus on the most important measures of the condition or direction of the Nation's state of the science, engineering and technology enterprise and its impact on the economy and society. Indicators assume a high level of importance because they focus attention on key issues. Because it is difficult to measure many activities and concepts precisely, it is important to consider a variety of indicators.

SRS welcomes proposals for research, workshops and studies leading to improved approaches to indicator development and presentation, new S&T indicator development, and better understanding of the S&T enterprise in the United States and globally under its Grants for the Analysis of Science and Technology Resources. (This grants program supercedes the "Program for the Analysis of Science and Technology Resources." There is no difference between the programs except for the name change.) SRS is keenly interested in the development of new approaches to the analysis and presentation of data as indicators, with a particular focus on effective methods of presenting complex information as indicators[3] .

In general, three kinds of research, studies, and workshops are supported: those that develop advances in the presentation of policy indicators, those that enhance the understanding of available data and trends, and those that develop new data and indicators about subjects related to S&T resources and/or S&T policy issues. The first category is aimed at advancing the presentation of indicators in Science and Engineering Indicators and other SRS reports. Both theoretical and practical work will be useful to aid the intellectual development of indicator reports in the next decade. The goal is to create new approaches to indicators that effectively present statistical information of appropriate complexity in accessible form to a primarily policy-oriented audience. The second category is designed to assist in the analysis, interpretation and understanding of the various indicators and their meaning for the present and future health of the science and engineering enterprise. The third category is particularly relevant to the areas of outputs and impacts of S&T activity and international S&T resources.

Footnotes

[1] See Science and Engineering Indicators-1998 at <http://www.nsf.gov/sbe/srs/seind98/start.htm> as an example of the current set of S&E indicators.

[2] See, for example, National Research Council, "Improving Indicators of the Quality of Science and Mathematics Education in Grades K-12" Richard J. Murnane and Senta A. Raizen, Editors.

[3] In addition to the S&E Indicators reports, see other indicators reports such as The Condition of Education 1999 at <http://nces.ed.gov/>, Changing America: Indicators of Social and Economic Well-Being by Race and Hispanic Origin at <http://www.whitehouse.gov/WH/EOP/CEA/html/publications.html>, the World Development Reports by the World Bank, the Second European Report on S&T Indicators 1997 by the European Communities, and many others.

II. PROGRAM DESCRIPTION

SRS is encouraging proposals for research, workshops, and studies leading to new and improved S&T indicator development and to the improved understanding of the S&T enterprise in the United States and globally. In addition to supporting the development of new and improved indicators, SRS is encouraging the development of new approaches to the presentation of indicators more generally. Policy indicators have been published in numerous fields (e.g., science and engineering, health, education, energy, youth) since the early 1970's. Forms of presenting indicators have evolved since that time, with some similarities and differences across fields. As we enter the first decade of the 21st Century, SRS is interested in supporting the development of new generations of policy indicators. Such new approaches might, for example, attempt to reflect greater sophistication of both our understanding of S&E issues and more advanced techniques of statistical analysis and advances in electronic display of such data, while maintaining clarity for non-technical users such as decisionmakers.

AREAS OF INTEREST

Potential topics for consideration include but are not limited to:

Developing new and improved indicators and advances in the analysis, understanding and interpretation of existing indicators of the inputs, outputs, linkages and social or economic impacts of Science and Technology (S&T) activities;

Conducting studies that examine improved methods of presenting complex statistical analysis in an accessible, indicator format - either in hardcopy or electronic form. This could include studies that examine various reports in "indicator" formats and develop new approaches for potential use in Science and Engineering Indicators reports, or historical reviews of approaches to presenting indicators that build on previous styles to develop suggestions for new generations of policy indicators;

Working towards theoretical and practical advances in the development and presentation of quantitative and qualitative indicators in the social and economic sciences, especially as they relate to science and technology resources. This can include studies that examine the theoretical and practical underpinnings of indicators to improve understanding of the identification, selection and development of S&E indicators from the vast array of available statistical

information as well as the development of entirely new quantitative data series and S&E indicators;

Improving analytical techniques to produce better indicators of issues related to: (1) the education and retention of scientists and engineers including minorities and women, (2) the demand and supply of Science Technology (S/T) personnel such as Science, Engineering and Technology (SE&T) personnel in information technologies, and (3) research and development (R&D) expenditures in various sectors and fields and countries including emerging fields, and (4) estimates of current and near-term future S&T resources;

Developing data, analyses, and indicators of the globalization of science, engineering and technology and analyses leading to a better understanding of the emerging global economy. This could include, for example, international comparisons of S&T capabilities and activities, including inputs, outputs, and impacts and interactions; indicators of international education and mobility of scientists and engineers; as well as foreign investment in S&T activities;

Improving indicators and understanding of public attitudes toward science and technology and public understanding of science, engineering and technology;

Developing new indicators and analyses leading to a better understanding of the emerging "knowledge-based economy" and its impact. This could include, for example, a better understanding of developments in the service sector, or changes in university roles, structure and mission; and changes in the diffusion and impact of information technologies;

Improving indicators and understanding of innovation and the factors underlying the innovation process, and examination and comparisons of the innovation systems of various countries and regions and how they interact;

Developing new and improved analyses and indicators of S&T networks, linkages, partnerships and other collaborations or interactions between various nations, sectors, disciplines, and technologies;

Enhancing modeling techniques to produce indicators that describe key interactions among important components of the economic system as they relate to science and technology.

III. ELIGIBILITY INFORMATION

The categories of proposers identified in the [Grant Proposal Guide](#) are eligible to submit proposals under this program announcement/solicitation.

IV. AWARD INFORMATION

NSF expects to devote \$400,000 to this program annually, pending availability of funding.

V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation 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) (NSF 00-2). The complete text of the GPG (including electronic forms) is available electronically on the NSF Web Site at: <http://www.nsf.gov/pubs/2000/nsf002/start.htm>. Paper copies of the GPG may be obtained from the NSF Publications Clearinghouse, telephone (301) 947-2722 or by e-mail from pubs@nsf.gov.

Proposers are reminded to identify the program announcement/solicitation number (NSF 00-111) in the program announcement/solicitation block on the NSF Form 1207, *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.

B. Budgetary Information

In accordance with Congressional requirements (see GPM 330), NSF requires that each awardee share in the cost of research projects resulting from unsolicited proposals. For purposes of NSF, proposals submitted in response to this announcement/solicitation are considered unsolicited. The awardee may meet the statutory cost sharing requirement by choosing either of two alternatives: (1) by cost sharing a minimum of one percent on the project; or (2) by cost sharing a minimum of one percent on the aggregate costs of all NSF-supported projects requiring cost sharing.

The minimum one percent statutory cost sharing requirement discussed above need NOT be entered on Line M of the NSF Form 1030.

C. Deadline/Target Dates

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

September 18 of each year

Proposals received after the established target date may still be reviewed, although they may miss a particular panel or committee meeting.

D. FastLane Requirements

Proposers are required to prepare and submit all proposals for this Program Announcement through the FastLane system. Detailed instructions for proposal preparation and submission via FastLane are available at: <http://www.fastlane.nsf.gov/a1/newstan.htm>. For FastLane user support, call 1-800-673-6188.

Submission of Signed Cover Sheets. The signed copy of the proposal Cover Sheet (NSF Form 1207) must be postmarked (or contain a legible proof of mailing date assigned by the carrier) within five working days following proposal submission and be forwarded to the following address:

National Science Foundation

DIS – FastLane Cover Sheet

4201 Wilson Blvd.

Arlington, VA 22230

VI. PROPOSAL REVIEW INFORMATION

A. NSF Proposal Review Process

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.

Proposals will be reviewed against the following general review criteria established by the National Science Board. Following each criterion are potential considerations that the reviewer may employ in the evaluation. These are suggestions and not all will apply to any given proposal. Each reviewer will be asked to address only those that are relevant to the proposal and for which he/she 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?

Principal Investigators should address the following elements in their proposal to provide reviewers with the information necessary to respond fully to both of the above-described NSF merit review criteria. NSF staff will give these elements careful consideration 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 SRS REVIEW CRITERIA

The relevance of the proposal to program goals and the prospect of the project resulting in the development of new indicators or new indicator approaches will also be criteria for review. Researchers should address these issues in their proposal to provide reviewers and the NSF staff with the information necessary in making funding decisions.

A summary rating and accompanying narrative will be completed and signed by each reviewer. In all cases, reviews are treated as confidential documents. Verbatim copies of reviews, excluding the names of the reviewers, are mailed 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.

B. Review Protocol and Associated Customer Service Standard

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 will be evaluated by mail reviewers. A senior level SRS panel will determine overall ratings on the basis of NSF criteria, reviewer ratings, the proposal's relevance to SRS program goals, and the prospect of the project developing new indicators or new indicator approaches. On the basis of these criteria, the SRS panel will make funding recommendations.

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.

NSF will be able to tell applicants whether their proposals have been declined or recommended for funding within six months for 95 percent of proposals. The time interval begins on the

proposal deadline or target date or from the date of receipt, if deadlines or target dates are not used by the program. 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 its 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 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

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 NSF brochure, program guide, 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 web site at http://www.nsf.gov/home/grants/grants_gac.htm. Paper copies may be obtained from the NSF Publications Clearinghouse, telephone (301) 947-2722 or by e-mail from pubs@nsf.gov.

More comprehensive information on NSF Award Conditions is contained in the NSF *Grant Policy Manual* (GPM) Chapter II, (NSF 95-26) available electronically on the NSF web site at <http://www.nsf.gov/cgi-bin/getpub?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 web site at <http://www.gpo.gov>.

C. Reporting Requirements

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. Approximately 30 days before expiration, NSF will send a notice to remind the PI of the requirement to file the final project report. Failure to provide final technical reports delays NSF review and processing of pending proposals for that PI. PIs should examine the formats of the required reports in advance to assure availability of required data.

NSF has implemented an electronic project reporting system, available through FastLane. 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

General inquiries should be made to the Grants for the Analysis of Science and Technology (S&T) Resources Program: Derek Hill, Analyst, Science Resources Statistics, Rm. 965, telephone: 703-292-7805, e-mail: dhill@nsf.gov.

For questions related to the use of FastLane, contact,

- Claudette Merrick, Administrative Officer, Science Resources Statistics, Rm. 965, telephone: 703-292-4899, e-mail: srsfl@nsf.gov.
- Deborah Collins, Survey Operation Specialist, Science Resources Statistics, Rm. 965, telephone: 703-292-7804, e-mail: srsfl@nsf.gov.

IX. OTHER PROGRAMS OF INTEREST

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 listed in Appendix A of the GPG. 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](http://www.nsf.gov/home/ebulletin), which is updated daily on the NSF web site at <http://www.nsf.gov/home/ebulletin>, and in individual program announcements/solicitations. Subscribers can also sign up for NSF's [Custom News Service](http://www.nsf.gov/home/cns/start.htm) (<http://www.nsf.gov/home/cns/start.htm>) to be notified of new funding opportunities that become available.

The NSF Guide to Programs is a compilation of funding opportunities for research and education in science, mathematics, and engineering. General descriptions of NSF programs, research areas, and eligibility information for proposal submission are provided in each chapter. The NSF Guide to Programs is available electronically only, at <http://www.nsf.gov/cgi-bin/getpub?gp>. Many NSF programs offer announcements concerning specific proposal requirements. To obtain additional information about these requirements, contact the appropriate NSF program offices listed in Appendix A of the GPG.

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, available electronically on the NSF Web site at: <http://www.nsf.gov/home/ebulletin/>. Subscribers can also sign up for NSF's Custom News Service to find out what funding opportunities are available.

ABOUT THE NATIONAL SCIENCE FOUNDATION

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 (unless otherwise specified in the eligibility requirements for a particular program).

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-supported projects. See the program announcement/solicitation or contact the program coordinator at (703) 292-5111.

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, FIRS at 1-800-877-8339.

The National Science Foundation is committed to making all of the information we publish easy to understand. If you have a suggestion about how to improve the clarity of this document or other NSF-published materials, please contact us at plainlanguage@nsf.gov.

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 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.

Pursuant to 5 CFR 1320.5(b), 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, Information Dissemination Branch, Division of Administrative Services, National Science Foundation, Arlington, VA 22230, or to Office of Information and Regulatory Affairs of OMB, Attention: Desk Officer for National Science Foundation (3145-0058), 725 - 17th Street, N.W. Room 10235, Washington, D.C. 20503.

OMB control number: 3145-0058.