Science and Technology Studies (STS)

DIVISION OF SOCIAL AND ECONOMIC SCIENCES

FULL PROPOSAL TARGET DATE(S): February 1 of each year, August 1 of each year

NATIONAL SCIENCE FOUNDATION

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SUMMARY OF PROGRAM REQUIREMENTS

GENERAL INFORMATION

Program Title: Science and Technology Studies (STS)

Synopsis of Program: The STS Program supports research and related activities that contribute to systematic understanding of the character and development of science and technology, including their cultural, intellectual, material,and social dimensions. The program supports research on the nature and development of technology and science, both in the past and present; on differences in the nature of theory and evidence in various fields of science and engineering; and on the interactions among science, technology and society. Proposals are welcomed from various disciplinary perspectives, including history of science, history of technology, philosophy of science, and various social sciences, including sociology, anthropology, and political science.

Cognizant Program Officer(s):

- Bruce E. Seely, STS, Program Director, SBE, SES, Room 995, telephone: 703-292-7283, e-mail: bseely@nsf.gov.

- John Perhonis, STS-Dissertation Proposals, Program Director, SBE, SES, Room 995, telephone: 703-292-7279, e-mail: jperhoni@nsf.gov.

- Debra Newman, STS, Program Assistant, SBE, SES, Room 995, telephone: 703-292-7287, e-mail: dnewman@nsf.gov.

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

- 47.075 --- Social, Behavioral and Economic Sciences

ELIGIBILITY INFORMATION

- **Organization Limit:** None

- **PI Eligibility Limit:** None

- **Limit on Number of Proposals:** None

AWARD INFORMATION

- **Anticipated Type of Award:** Standard or Continuing Grant

- **Estimated Number of Awards:** 60-65

- **Anticipated Funding Amount:** Approximately $3.7 million per year, pending availability of funds.

PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions

- **Full Proposals:** Deviations From Standard Preparation Guidelines

    - The program announcement/solicitation contains deviations from the standard Grant Proposal Guide (GPG) proposal preparation guidelines. Please see the full program announcement/solicitation for further information.

B. Budgetary Information

- **Cost Sharing Requirements:** Cost Sharing is not required.

- **Indirect Cost (F&A) Limitations:** Indirect costs are not allowed on dissertation improvement grants and on STS Postdoctoral and Professional Development Fellowships. The Fellowships do allow a fixed-amount institutional allowance of $3000/year in lieu of indirect costs.

- **Other Budgetary Limitations:** Other budgetary limitations apply. Please see the full program announcement/solicitation for further information.

C. Deadline/Target Dates

- **Letters of Intent (*optional*):** None

- **Preliminary Proposals (*optional*):** None

- **Full Proposal Target Date(s):** February 1 of each year, August 1 of each year

D. FastLane Requirements

- **FastLane Submission:** Required

- **FastLane Contact(s):**

    - Geri Farves, Program and Technology Specialist, SBE, SES, Room 995, telephone: 703-292-7309, e-mail: gfarves@nsf.gov or contact the SES Division alias, sesfl@nsf.gov.

    - Kristin Raymond, Science Assistant, SBE, SES, Room 995, telephone: 703-292-7323, e-mail: kraymond@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:** Additional award conditions apply. Please see the program announcement/solicitation for further information.

- **Reporting Requirements:** Standard NSF reporting requirements apply.

I. INTRODUCTION

The Science & Technology Studies (STS) Program supports research and related activities that contribute to systematic understanding of the character and development of science and technology, including their cultural, intellectual, material, and social dimensions. The program supports research on the nature and development of technology and science, both in the past and present, and on differences in the nature of theory and evidence in various fields of science and engineering. STS also supports research on the interactions among science, technology and society, including such topics as the foundations of scientific and technological knowledge and institutions; the relations between science and other social institutions and groups; and processes of scientific and technological innovation and change. Proposals are welcome from the various disciplinary perspectives that comprise the science and technology studies community, a diverse and growing intellectual field that encompasses three distinct intellectual traditions: The history of science and the history of technology; philosophy of science; and the array of scholarly disciplines from the social sciences (sociology, anthropology, political science, etc.) pursuing social studies of science and technology. In recent years, the NSF has made 60-65 new awards annually under this program, which has had an annual budget of about $3.5 million.

Researchers whose projects are primarily concerned with ethical and social values, policies, and the obligations that arise in the interactions among science, technology and society should contact the NSF's Societal Dimensions of Engineering, Science and Technology Program (SDEST). The SDEST and STS Programs often cooperate, but the programs retain different programmatic and research emphases.

Except for doctoral dissertation research, STS studies of medicine, public health and society are not normally supported by the NSF. Researchers should contact the National Institutes of Health and/or the National Endowment for the Humanities for support of research in these fields.

II. PROGRAM DESCRIPTION

The STS Program provides a range of funding opportunities designed to support the full spectrum of research, educational, and scholarly activities undertaken by scholars within science and technology studies. The Program urges potential investigators to discuss their proposals with the Program Directors in advance of submission.

Modes of Support

1. STS Scholars Awards
STS Scholars Awards are the usual award for individual investigators who are undertaking full-time research projects, ordinarily for part or all of an academic year, a summer, or some combination of academic year and summer. Additional support may be requested for up to two additional years (up to three years total), although full-time support normally is provided for only one year. Scholars awards normally are made to U.S. institutions, although individuals who cannot apply through an appropriate academic institution may apply as an independent scholar. In the latter case, the applicant must be a U.S. citizen or national, or a person who has permanent resident status.

Budget Guidelines for Scholars Awards

- Awards normally provide up to $70,000 for partial support of one or more semesters (or quarters) of full-time **academic year (9-month)** release time and related direct and indirect research expenses.

- Up to $20,000 can be requested for partial support of full-time **summer** research, including salary, fringe benefits and all other direct and indirect costs of research. Summer salary request may not exceed 2/9ths (2 months) of academic year salary.

- **Annual limit** for project support in a twelve-month period is normally $90,000.

- **Research assistance** may also be requested but must be justified in the proposal's work plan. Normal limits for such support, including indirect costs, are $6,000 per year for an undergraduate research assistant, $15,000 per year for a graduate student, and $36,000 per year (including fringe benefits) for a designated postdoctoral researcher.

- **Projects duration** -- up to three years.

- **Maximum award** (indirect costs included) is normally $150,000. Proposals of longer duration or requesting larger amounts of support will be considered if extraordinarily well justified.

2. Grants for Collaborative Research

These grants support research projects that require several investigators, or investigators and advisors, or collaboration among principal investigators (PIs). In preparing the budget for such collaborative projects, the budget guidelines listed above for Scholars Awards should be followed for salaries and research expenses: for each PI $70,000 (including fringes and indirect costs) normally is the maximum allowed for full-time academic year (9 month) research and $20,000 is normally allowed per summer. For collaborative projects that also require postdoctoral researchers or graduate student assistants, please consider "Small Grants for Training and Research," described below. Proposals of two or more year's year duration or requesting larger amounts of support will be considered if justified.

Some collaborative projects are designed to develop research or educational infrastructure, such as preparation of reference works, editions of scientific and personal papers, or development of data bases, digital libraries,or graphics resources for public use. Electronic dissemination of the results of such infrastructure projects should be the norm in STS projects. In this type of collaborative project, the STS Program's support should be directed to research or scholarly components, including but not limited to archival research and annotation, as opposed to routine administrative or logistical activities. The STS Program prefers not to be the sole supporter of editorial or publications projects.

3. STS Postdoctoral Fellowships

Postdoctoral Fellowships are available for STS researchers within 5 years of receipt of their Ph.D. All fellowship applicants must be US citizens or nationals, or must have permanent resident status.

STS Postdoctoral Fellowship Proposals should follow the same form as a regular NSF proposal (see the NSF *Grant Propsal Guide* for details), incorporating the specific additional items listed below.

The chief purpose of these fellowships is to enhance the methodological skills and research competence of researchers in STS fields. Consequently, applications must describe **both** a training **and** a research component, and the site for the fellowship must be different from the institution where the fellow received the Ph.D. degree. The application should justify the choices of the venue for the fellowship and the sponsoring faculty member, in terms of the applicant's research and training goals. In addition host scholars (sponsoring faculty) must provide statements describing their plans for working with fellowship applicants, while host institutions should provide letters agreeing to provide appropriate space and facilities. A letter of support also must be included from the applicant's dissertation supervisor. No fellowship may begin until the appropriate Ph.D.-granting institution has certified that the holder of the fellowship has completed all requirements for the degree. Letters should be incorporated into the "Supplementary Documentation" section of the FASTLANE proposal at the time the entire proposal is submitted.

The fellowship applicant generally prepares the proposal and normally should be listed as the co-Principal Investigator. The sponsoring faculty member at the sponsoring institution normally should be listed as the Principal Investigator (PI). The sponsoring institution usually submits the proposal and administers the award. In certain circumstances (such as when the fellowship takes place at an institution outside the U.S.), postdoctoral fellowship applicants may apply as independent scholars. Postdoctoral fellowships normally provide an annual stipend of up to $36,000 (including fringe benefits) per year for support of full-time academic year study and research. Also allowable are a research and travel expenses allowance of up to $3,000/year and a fixed-amount institutional allowance of $3,000/year (in lieu of indirect costs). [Please note: NSF cannot pay the institutional allowance to non-US institutions.] The proposal budget should justify expenditure of the research and travel allowance. There are no dependents allowances, and moving expenses, if requested, must be deducted from the research and travel allowance. The maximum award normally will be $42,000/year. Awards may be for up to two years.

4. STS Professional Development Fellowships

STS Professional Development Fellowship proposals should follow the same form as a regular NSF proposal (see the NSF *Grant Proposal Guide* for details), incorporating the specific additional items listed below.

Professional Development Fellowships (PDFs) are available for researchers trained in history, philosophy, or social studies of science and technology who wish to improve and expand their skills in the areas of science or engineering, and conversely for physical and natural scientists and engineers who desire training in STS disciplines. For example, historians, philosophers and social scientists may use this award to work with a scientist or engineer to learn the technical aspects of research in their area. Alternatively, scientists or engineers may use this award to work with a historian, philosopher or social scientist to learn the research methods and analytical tools and approaches current in STS fields. These fellowship applications must contain **both** a training **and** a research component, and should justify the choice of both the venue and the sponsoring faculty member, in relation to the applicant's research and training goals. The application also must include letters from the host scholar describing plans for working with a fellowship applicant, and from host institutions agreeing to provide appropriate space and facilities. These should be "attached" in the "Supplementary Documentation" section at the time the entire proposal is submitted.

The annual stipend for these awards depends upon the applicant's current salary and work history and can range from $36,000 to $60,000, inclusive of fringe benefits, for a full-time academic year of study and research in a field outside the applicant's current area of expertise. These awards provide the same travel and U.S. institutional allowances as postdoctoral fellowships: $3000 for travel and $3000 institutional support in lieu of indirect costs. The budget should justify research and travel expenditures; moving expenses (if requested) must be deducted from the travel allowance.

5. Doctoral Dissertation Research Improvement Grants

These awards provide funds for dissertation research expenses not normally available through the student's university. The dissertation advisor is the principal investigator on these applications; the doctoral student should be listed as co-principal investigator. Dissertation proposals should be prepared in accordance with the guidelines for regular research proposals. The Project Description section should describe the scientific significance of the work, including its relationship to other current research, and the design of the project in sufficient detail to permit evaluation. It should also present and interpret progress to date if the research is already underway. The "Results from Prior Research" section is not required with these proposals.

The usual limit on a dissertation award is $8,000 for research in North America and $12,000 for work abroad. Awards are not intended to provide the full costs of a student's doctoral dissertation research. Funds may be used only for valid research expenses which include, but are not limited to, conducting field research in settings away from campus that would not otherwise be possible, data collection and sample survey costs, payments to subjects or informants, specialized research equipment, analysis and services not otherwise available, supplies, travel to archives, specialized collections, and facilities or field research locations, and partial living expenses for conducting necessary research away from the student's university. Funds are to be used exclusively for the actual conduct of dissertation research. These funds may not be used as a student stipend, for tuition, textbooks, journals, or for the typing, reproduction, or publication costs of the student's dissertation. Funds may be requested for research assistants only in very special circumstances, which should be carefully justified. No indirect costs are allowed.

The proposal **must** include a letter from the faculty advisor. This document is not intended as a traditional recommendation, but should evaluate the student's promise as a researcher, the student's capabilities for undertaking this project, and the value and status of the proposed research. It should also discuss the student's current progress in their graduate program, affirming when the student passed -- or will pass -- the qualifying exams and completed all course work required for the dissertation. If the doctoral student will use the award for travel expenses to work with a specialist, the proposal should provide a justification for this choice and a letter from the specialist agreeing to work with the student. These requirements **must** be met before an award will be made. Letters should be "attached " in the "Supplementary Documentation" section of the FASTLANE proposal at the same time the entire proposal is submitted.

6. Small Grants for Training and Research

Small Grants for Training and Research (SGTR) are intended to provide sustained research opportunities for a group of graduate students and postdoctoral fellows on important issues in STS. One or more senior investigators may propose a sustained course of study, research and training (for from one to three years) on a subject of significance. These training programs should have a specific research theme and the proposal should indicate how the training will be organized around the theme. The grants can provide a maximum of $100,000 per year to support one postdoctoral fellow and up to three graduate students. [NOTE: These grants provide no support for the principal investigators, but PI's may be supported under existing grants or may concurrently submit a regular research proposal.] For projects of more than one year, PIs may retain or change the postdoc and graduate students. In addition to providing a research theme and plan, applicants should also indicate how they will recruit members of underrepresented groups into the programs and how they will educate participants about research ethics. The budget for graduate student and postdoctoral fellowship support (stipends, tuition, etc.) belongs in the participant support costs section of the budget form, and no indirect costs can be applied to these budget items.

Note: SGTR proposals will only be considered in the Fall of each year. The target date for submission of these proposals is August 1. Because of budgetary constraints, STS may fund only 2 or 3 SGTRs each year.

7. Conferences and Workshops

STS can help to support national or international conferences, symposia, and research workshops that enable scientists, engineers, researchers in STS areas of support, policy makers, and representatives of interested groups to develop, evaluate, and share new research findings. Proposals for conference or workshop support should describe the need for the gathering, the proposed date and location, topics and persons who will be involved, prior related meetings, publicity, and expected outcomes. Every effort must be made to include among proposed participants younger scholars and members of underrepresented groups. Conferences and workshops may, where justified, be carried out as special sessions in regular meetings of professional societies. STS gives priority to those conferences and symposia that promote

interactions between researchers in STS and scientists and engineers, or between STS scholars and members of scholarly communities not normally in contact with each other. Meetings usually should be open, and the ultimate goal of the gathering should be development of a new field of scholarship, pedagogy, or research. Concomitant support by other Federal agencies or private organizations is strongly encouraged. Unless there is a strong justification, STS normally limits support for conferences and workshops to $10,000. Expenses (travel, stipends, honoraria, etc.) normally belong in the Participant Support section of the budget.

8. Other Grant Opportunities

NSF does not normally support the purchase of personal computers, but the program will consider requests for instrumentation such as CD-ROM readers or computers for research purposes. In cases where such requests are justified, the STS Program will provide up to half the cost of computer equipment, up to $1000, with the understanding that the equipment be made available for the use of all faculty and graduate students in a department.

The STS program may provide supplemental funding to existing awards in order to create research experiences for undergraduates (REU).

Finally, the STS Program participates in most Foundation-wide initiatives, such as CAREER, ADVANCE, MRI, and the specially focused research efforts. Information about these efforts can be found at the Crosscutting /Interdisciplinary Programs home page: http://www.nsf.gov/home/crssprgm/.

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

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

STS Scholars Awards are fixed amount awards. They will be made on a fixed amount basis subject to the conditions of the grant instrument and this Announcement. A fixed amount award represents a predetermined amount for NSF support of the proposed research without regard to the subsequent costs of the project. Note to Institutional Research Administrators: grants awarded on a fixed amount basis are not subject to Federal cost principles as contained in OMB Circular A-21. As part of the final report required by the grant general conditions, the grantee must certify that the person months funded were actually expended. Individuals receiving fellowships or fixed amount awards to individuals must be U.S. citizens or U.S. nationals or have permanent U.S. resident status.

V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions

Full Proposal:

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 Web Site at: http://www.nsf.gov/cgi-bin/getpub?gpg. 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.

STS Postdoctoral Fellowship and STS Professional Development Fellowship applications should conform to the general guidelines outlined in the GPG. Special requirements and additional information concerning these modes of support are included in the Program Description.

Doctoral Dissertation Improvement Grants need not include the "Results from Previous NSF Awards" section.

Proposers are reminded to identify the program solicitation number (NSF-01-159) in the program announcement/solicitation block on the proposal Cover Sheet (NSF Form 1207). Compliance with this requirement is critical to determining the relevant proposal processing guidelines. Failure to submit this information may delay processing.

B. Budgetary Information

Cost sharing is not required in proposals submitted under this Program Announcement.

Indirect Cost (F&A) Limitations: Indirect costs are not allowed on dissertation improvement grants and on STS Postdoctoral and Professional Development Fellowships. The Fellowships do allow a fixed-amount institutional allowance of $3000/year in lieu of indirect costs.

Other Budgetary Limitations: The Program Description provides detailed information concerning applicable budget guidelines and limitations.

C. Deadline/Target Dates

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

Full Proposals: February 1 of each year, August 1 of each year

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 or e-mail fastlane@nsf.gov.

Submission of 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 certifications within five working days following the electronic submission of the proposal. Further instructions regarding this process are available on the FastLane website at: http://www.fastlane.nsf.gov.

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 Review Criteria

Investigators are reminded that proposals are evaluated not only by specialists in their research area, but also by generalists from various disciplines within the larger domain of science and technology studies. It is imperative that proposals be comprehensible to all readers, and applicants are urged to consider carefully the use of jargon and highly specialized terminology without explanation, or currently fashionable vocabulary.

The STS Program expects investigators submitting awards to pay close attention to the legibility of their proposal as well. While NSF guidelines allow 10-point type, many fonts this size produce very small text, especially in single-spaced documents. Forcing readers to struggle to decipher one's meaning and intent is never a good strategy. Therefore, the STS Program recommends that applicants use at least 11-point type. Proposals prepared with type that is too small to read may be returned without review.

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 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.

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/solicitation will be reviewed by Mail Review followed by 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.

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 applicants whether their proposals have been declined or recommended for funding within six months for 70 percent of proposals. The time interval begins on the date of receipt. 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 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, 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.

Special Award Conditions

STS "Fixed Amount" awards may carry special or unique conditions. See Program Description for specific details.

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 regarding Science and Technology Studies should be made to:

- Bruce E. Seely, STS, Program Director, SBE, SES, Room 995, telephone: 703-292-7283, e-mail: bseely@nsf.gov.

- John Perhonis, STS-Dissertation Proposals, Program Director, SBE, SES, Room 995, telephone: 703-292-7279, e-mail: jperhoni@nsf.gov.

- Debra Newman, STS, Program Assistant, SBE, SES, Room 995, telephone: 703-292-7287, e-mail: dnewman@nsf.gov.

For questions related to the use of FastLane, contact:

- Geri Farves, Program and Technology Specialist, SBE, SES, Room 995, telephone: 703-292-7309, e-mail: gfarves@nsf.gov or contact the SES Division alias, sesfl@nsf.gov.

- Kristin Raymond, Science Assistant, SBE, SES, Room 995, telephone: 703-292-7323, e-mail: kraymond@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. 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 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) to be notified of new funding opportunities that become available.

The Home Page for the STS Program has links to a number of other NSF programs that might interest potential applicants. Investigators are invited to visit the STS Page at http://www.nsf.gov/sbe/ses/sts/start.htm

Investigators are especially urged to examine the opportunities identified on NSF's Crosscutting/Interdisciplinary Programs home page. These programs reach across the entire Foundation. Among the most visible of these programs are the CAREER competition for young investigators, the Major Research Instrumentation (MRI) competition, the effort to increase the participation of women in careers in science and engineering (ADVANCE), and the special research initiatives of recent years. Information can be found at http://www.nsf.gov/home/crssprgm/

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