

Ocean Sciences Postdoctoral Research Fellowships (OCE-PRF)

Broadening Participation

PROGRAM SOLICITATION

NSF 11-586



National Science Foundation

Directorate for Geosciences
Division of Ocean Sciences

Full Proposal Target Date(s):

January 13, 2012

IMPORTANT INFORMATION AND REVISION NOTES

A revised version of the *NSF Proposal & Award Policies & Procedures Guide (PAPPG)*, [NSF 11-1](#), was issued on October 1, 2010 and is effective for proposals submitted, or due, on or after January 18, 2011. Please be advised that the guidelines contained in [NSF 11-1](#) apply to proposals submitted in response to this funding opportunity.

Cost Sharing: The PAPPG has been revised to implement the National Science Board's recommendations regarding cost sharing. Inclusion of voluntary committed cost sharing is prohibited. In order to assess the scope of the project, all organizational resources necessary for the project must be described in the Facilities, Equipment and Other Resources section of the proposal. The description should be narrative in nature and must not include any quantifiable financial information. Mandatory cost sharing will only be required when explicitly authorized by the NSF Director. See the PAPPG Part I: *Grant Proposal Guide (GPG)* [Chapter II.C.2.g\(xi\)](#) for further information about the implementation of these recommendations.

Data Management Plan: The PAPPG contains a clarification of NSF's long standing data policy. All proposals must describe plans for data management and sharing of the products of research, or assert the absence of the need for such plans. FastLane will not permit submission of a proposal that is missing a Data Management Plan. The Data Management Plan will be reviewed as part of the intellectual merit or broader impacts of the proposal, or both, as appropriate. Links to data management requirements and plans relevant to specific Directorates, Offices, Divisions, Programs, or other NSF units are available on the NSF website at: <http://www.nsf.gov/bfa/dias/policy/dmp.jsp>. See [Chapter II.C.2.j](#) of the GPG for further information about the implementation of this requirement.

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:

Ocean Sciences Postdoctoral Research Fellowships (OCE-PRF)
Broadening Participation

Synopsis of Program:

The Division of Ocean Sciences (OCE) offers Postdoctoral Research Fellowships to increase the participation of under-represented groups in the ocean sciences. Awards are intended to support the individual fellows' research and increase the diversity of the U.S. ocean sciences research community. In this solicitation, the term under-represented groups will refer to and include the following: women, persons with disabilities, African Americans, Hispanics, Native Americans, Alaska Natives, and Pacific Islanders. Fellowships are awards to individuals, not organizations, and are administered by the fellows.

Cognizant Program Officer(s):

Please note that the following information is current at the time of publishing. See program website for any updates to the points of contact.

- Larry H. Weber, telephone: (703) 292-7240, email: lweber@nsf.gov
- Gayle Pugh, telephone: (703) 292-7589, email: gpugh@nsf.gov

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

- 47.050 --- Geosciences

Award Information

Anticipated Type of Award: Fellowship

Estimated Number of Awards: 10 contingent on meritorious proposals and the availability of funds.

Anticipated Funding Amount: \$850,000 Individual fellowships are expected to be \$85,000 per year.

Eligibility Information

Organization Limit:

Proposals may only be submitted by the following:

- OCE Postdoctoral Research Fellowships are awards to individuals; proposals must be submitted directly by the fellowship candidate to NSF. Each candidate must identify one or more sponsoring scientist(s) and host organization(s) in the proposal. Fellowship activities may be conducted at any appropriate U.S. or foreign host organization, including colleges and universities, private nonprofit research institutes and museums, and government agencies.

PI Limit:

To be eligible to submit a proposal to the OCE-PRF Program, an individual must, as of the full proposal target date (January 13, 2012), meet all of the following criteria:

- Be a U.S. citizen, national, or permanent resident;
- Have earned the doctoral degree within the last 36 months, or expect to have earned the doctoral degree prior to the required start date of the fellowship; and
- Have no more than 24 months of full-time-equivalent postdoctoral research experience.

Proposals that fail to meet the above eligibility requirements will be returned without review.

Limit on Number of Proposals per Organization:

Only individuals may apply. There is no limit on the number of fellowships that an organization may host.

Limit on Number of Proposals per PI: 1

One fellowship application per solicitation.

Proposal Preparation and Submission Instructions

A. Proposal Preparation Instructions

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

B. Budgetary Information

- Cost Sharing Requirements: Inclusion of voluntary committed cost sharing is prohibited.
- 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

- Full Proposal Target Date(s):
January 13, 2012

Proposal Review Information Criteria

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

Award Administration Information

Award Conditions: Standard NSF award conditions apply.

Reporting Requirements: Standard NSF reporting requirements apply.

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I. INTRODUCTION

The National Science Foundation (NSF) is charged with ensuring the vitality of the nation's scientific and technological enterprise. In its 2020 Vision for the National Science Foundation Report ([NSB 05-142](#)), the National Science Board articulated a vision for the future of science and technology that includes tapping the talents of all citizens, particularly those belonging to groups that are under-represented in the science and research enterprise. In response to this report, the Division of Ocean Sciences offers Postdoctoral Research Fellowships intended to increase the number of scientists from under-represented groups pursuing research careers in the ocean sciences. In this solicitation, the term under-represented groups will refer to and include the following: women, persons with disabilities, African Americans, Hispanics, Native Americans, Alaska Natives, and Pacific Islanders.

The fellowship program described in this solicitation revolves around postdoctoral research and broadening participation of under-represented groups in ocean sciences. Early-career scientists have the opportunity to direct their efforts within and across traditional disciplinary lines, develop partnerships, and avail themselves of unique research resources, sites and facilities. The postdoctoral fellowship is meant to strategically prepare early career researchers for positions of scientific leadership.

II. PROGRAM DESCRIPTION

The Division of Ocean Sciences (OCE) of the National Science Foundation (NSF) is sponsoring the Ocean Sciences Postdoctoral Research Fellowships: Broadening Participation Program to provide research and education opportunities for scientists early in their careers and to increase the diversity of the U.S. ocean sciences research community.

A. Appropriateness for OCE Priorities

Fellowship projects must fall within the purview of OCE, which includes a diversity of disciplinary and cross-disciplinary areas. OCE supports research, infrastructure and education to advance understanding of all aspects of the global oceans and ocean basins, including their interactions with people and the integrated Earth system. OCE programs include Biological Oceanography, Chemical Oceanography, Physical Oceanography, Marine Geology and Geophysics, Ocean Drilling, Ocean Science and Technology, and Ocean Education. See the Division of Ocean Sciences website (<http://www.nsf.gov/div/index.jsp?div=OCE>) for further information about division programs and priorities.

In addition, proposals must explain how the fellowship will increase or encourage the broader participation of under-represented groups in ocean sciences in the United States.

B. Host Organization(s)

The fellow must affiliate with a host organization(s). Appropriate organizations include U.S. and foreign colleges and universities, private nonprofit research institutes and museums, and government agencies. Multiple host organizations are permitted, and may be

particularly appropriate to pursue interdisciplinary work, collaborative opportunities, and activities related to broadening participation. Regardless of the number of host organizations proposed, a primary host organization must be identified.

In general, NSF expects that the fellowship will support work at an organization(s) other than the fellow's graduate institution or organization of current affiliation. Consequently, candidates proposing to be hosted by their graduate/current organization must present strong justification and must clearly explain the benefits of this choice to their research and broadening participation goals. Such proposals will be evaluated in the context of the potential benefits of this choice versus benefits that might be expected from expanding professional contacts and diversifying professional experience at a new organization.

C. Sponsoring Scientist(s)

In addition to affiliation with a host organization(s), the candidate must identify a sponsoring scientist(s) who will provide mentoring and guidance for the research and broadening participation goals. If more than one sponsor is proposed, one must be named lead sponsor and the roles of the other sponsors must be clearly stated in the project description.

The candidate is responsible for making all arrangements with the host organization(s) and sponsoring scientist(s). An important basis for judging the proposal will be the degree to which the letter(s) from the sponsoring scientist(s) describes and offers research, broadening participation, and mentoring opportunities that could not be pursued without fellowship support.

III. AWARD INFORMATION

OCE anticipates awarding up to 10 fellowships per year, from a budget of approximately \$850,000 per year, depending on the quality of submissions and availability of funds.

Duration and Tenure:

Up to 24 full-time-equivalent months of support may be requested. Fellowship tenures must begin within 18 months of the full proposal target date (January 13, 2012), and start on the first of the month.

Interruptions in tenure or extensions without additional cost to NSF are permitted only for extenuating circumstances, including parental leave for the birth or adoption of children. In this case, the fellow may request parental leave, and up to two months of the fellow's stipend may be used for paid parental leave if the following conditions are met: 1) A written request, including appropriate documentation by the fellow, for paid parental leave must be approved by the cognizant NSF program officer; and 2) The two months of paid parental leave cannot be used to increase the level of fellow salary support beyond 24 full-time-equivalent months. A no-cost extension may be requested to extend the fellowship award in order to complete the research and broadening participation goals, but no supplemental funds will be provided for this purpose.

Fellowships are not renewable.

Candidates selected to receive fellowships will be contacted by NSF and asked to provide additional information, such as acceptance forms and starting certificates. Successful candidates who have not completed the PhD at the time of proposal submission must provide certification of the completion of all PhD degree requirements before receiving their fellowship award. Normally fellowships will be held at organizations specified in the proposal, but under certain circumstances and with suitable justification, fellows may transfer during the tenure of the fellowship to a new organization upon approval by NSF.

Stipend and Allowances:

The annual fellowship amount of \$85,000 consists of two types of payments:

1. An annual stipend of \$60,000, typically paid in monthly installments of \$5,000 directly to the fellow as an electronic funds transfer into a personal account at a financial institution; and
2. An annual fellowship allowance of \$25,000, typically paid as a lump sum directly to the fellow in the same manner, and intended to cover costs such as:
 - Expenses directly related to the conduct of the proposed research and broadening participation goals, including but not limited to materials and supplies, equipment, computing resources, access to databases, domestic and international travel, publication charges, and subscription fees;
 - Expenses in support of the fellow, such as office space, general purpose supplies and use of equipment, facilities and other institutional resources; and
 - Expenses in support of fringe benefits, which may include but are not limited to individual or family health insurance provided through a group or individual plan, dental and/or vision insurance, disability insurance, retirement savings, dependent care, and moving expenses.

During the period of the fellowship, no additional appointment or fellowship may be held and no other remuneration from any source may be accepted without prior permission of the cognizant NSF program officer.

IV. ELIGIBILITY INFORMATION

Organization Limit:

Proposals may only be submitted by the following:

- OCE Postdoctoral Research Fellowships are awards to individuals; proposals must be submitted directly by the fellowship candidate to NSF. Each candidate must identify one or more sponsoring scientist(s) and host organization(s) in the proposal. Fellowship activities may be conducted at any appropriate U.S. or foreign host organization, including colleges and universities, private nonprofit research institutes and museums, and government agencies.

PI Limit:

To be eligible to submit a proposal to the OCE-PRF Program, an individual must, as of the full proposal target date (January 13, 2012), meet all of the following criteria:

- Be a U.S. citizen, national, or permanent resident;
- Have earned the doctoral degree within the last 36 months, or expect to have earned the doctoral degree prior to the required start date of the fellowship; and
- Have no more than 24 months of full-time-equivalent postdoctoral research experience.

Proposals that fail to meet the above eligibility requirements will be returned without review.

Limit on Number of Proposals per Organization:

Only individuals may apply. There is no limit on the number of fellowships that an organization may host.

Limit on Number of Proposals per PI: 1

One fellowship application per solicitation.

V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions

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

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

Special Instructions for Submitting Fellowship Proposals

Proposals submitted to the NSF Ocean Sciences Postdoctoral Research Fellowships Program must be submitted electronically using the NSF FastLane system or Grants.gov. Only one proposal is permitted per individual. Candidates are advised to begin the proposal well in advance of the submission target date. Partially completed proposals may be saved for future completion and submission. The submission of incomplete proposals is not permitted.

Registration for Fellowship Candidates

Before starting proposal preparation, the applicant must be registered as an individual. To register as a new individual in FastLane go to: <https://www.fastlane.nsf.gov/cgi-bin/N1CheckROB>. To register as a new individual in Grants.gov go to: http://www.grants.gov/applicants/individual_registration.jsp. Fellowship proposals must be submitted by the Fellowship applicant, not by the applicant's current or proposed organizational Sponsored Projects Office (SPO). The applicant serves as his/her own SPO and Authorized Organizational Representative (AOR) for the purposes of any research administration functions in FastLane or Grants.gov.

Proposals must include all of the following items. *In cases where requirements given in this document differ from those given in the NSF Grant Proposal Guide or NSF Grants.gov Application Guide, this solicitation takes precedence.*

1. NSF Cover Sheet. FastLane Users: Select the OCE-PRF program solicitation number shown at the beginning of this solicitation from the drop-down menu. Grants.gov Users: The program solicitation number will be pre-populated by Grants.gov on the NSF Grant Application Cover Page. The title should start with the acronym "OCE-PRF", followed by the descriptive title of the research.
2. Information about Principal Investigators/Project Directors.
3. Table of Contents. This form will be automatically generated by FastLane or Grants.gov.
4. Project Summary, not more than one page in length, describing the candidate's research plans and broadening participation goals. The project summary must also identify:
 - Proposed sponsoring scientist(s) and
 - Proposed host organization(s).

Proposals for which the Project Summary does not clearly address in separate statements both NSF merit review criteria will be returned without review. See the Grant Proposal Guide instructions.

5. Project Description, not to exceed ten (10) single-spaced pages, which must include the following:

- Research plan, articulated to a level of detail suitable to an NSF grant proposal;
- Description of how broadening participation for under-represented groups in ocean sciences in the United States would be advanced;
- Justification for the choice of the host organization(s) and sponsoring scientist(s) that relates the proposed fellowship work to their current research efforts and describes available expertise, facilities and resources;
- Statement about the array of expected broader impacts; and
- Description of the candidate's long-term career goals and the role of this postdoctoral experience in achieving them.

Where experiments are proposed, explicit experimental details need not be given, but the plan should provide a clear statement of objectives and approaches to accomplish them, and the specification of hypotheses and ways to test them.

Special certifications and permits may be required when projects involve human subjects, vertebrate animals, endangered species, hazardous materials, collecting in foreign countries, or other elements. The research plan should provide general information on these matters and address feasibility. If selected, candidates must submit required documentation to the NSF program officer before a fellowship award can be processed.

6. References cited.

7. Biographical Sketch, not to exceed two (2) pages. The Biographical Sketch must include identification of U.S. citizenship or permanent resident status, and the month and year when PhD was (or will be) received. Do not include personal information such as birth date or place of birth.

8. NSF Budget Page. The stipend and fellowship allowance should be entered in Participant Support Costs (Section F on the FastLane budget and Field E on the Grants.gov budget). Enter the \$60,000 stipend in F.1 (FastLane) or E.2 (Grants.gov) and the \$25,000 fellowship allowance in F.4 (FastLane) or E.5 (Grants.gov). Enter (1) as the Total Number of Participants. An annual budget page must be submitted for each of the two years of fellowship support. A budget justification of no more than two (2) pages should list and justify estimated expenditures under the annual fellowship allowance. Any potential deviations from this typical budget scenario must be discussed in advance with the NSF program officer.

9. Current and Pending Support. Include current support for research and training and planned applications to other fellowship or research programs.

10. Facilities, Equipment and Other Resources.

The following must be submitted as Supplementary Documentation:

11. Abstract of the candidate's PhD thesis (limited to one (1) page).

12. Data Management Plan, not to exceed two (2) pages, that describes plans for data management and sharing of the products of research, or asserts the absence of the need for such plans. See OCE guidelines at http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf11060.

13. Letter(s) of Commitment from the prospective host organization(s), signed by the department chair (or equivalent), certifying that adequate facilities and support will be provided for the fellow to accommodate the proposed activities. Should the candidate propose to hold the fellowship concurrently or sequentially at more than one organization during the two-year tenure, letters of commitment must be provided from all institutions.

14. A signed letter(s), not to exceed two (2) pages, from the proposed sponsoring scientist(s) certifying that the fellowship proposal has been read and approved, and including discussion of:

- The role the proposed scientific mentor(s) will play in the professional development of the fellow; and
- The opportunities for research and broadening participation at the host organization that will be of particular benefit to the fellow.

The letter(s) from the sponsoring scientist(s) should also include their Biographical Sketch and must conform to the NSF Grant Proposal Guide or NSF Grants.gov Application Guide instructions.

15. For individuals who have not completed the PhD at the time of proposal submission, a signed letter from the graduate advisor confirming the expectation that the candidate will receive the degree within 18 months of the full proposal target date (January 13, 2012).

Letters of recommendation will not be considered. Letters from the proposed host institution(s), sponsoring scientist(s) and, as needed, the candidate's current graduate advisor, should not reflect a letter of recommendation and should make **no subjective statements** regarding either the candidate or their proposed activities. Signed letters should be scanned into Portable Document Format (PDF) and uploaded as supplementary documentation.

No other supplementary documentation or appendices are permitted.

B. Budgetary Information

Cost Sharing: Inclusion of voluntary committed cost sharing is prohibited

Other Budgetary Limitations:

Fellowship award amounts are \$85,000 annually.

Budget Preparation Instructions: The fellowship award amounts are fixed. The stipend and fellowship allowance should be entered in Participant Support Costs (Section F on the FastLane budget and Field E on the Grants.gov budget). Enter the \$60,000 stipend in F.1. (FastLane) or E.2 (Grants.gov) and the \$25,000 fellowship allowance in F.4. (FastLane) or E.5 (Grants.gov). Enter (1) as the Total Number of Participants. An annual budget page must be submitted for each of the two years of fellowship support. A budget justification of no more than two (2) pages should list and justify estimated expenditures under the annual fellowship allowance. Any potential deviations from this typical budget scenario must be discussed in advance with the NSF program officer.

C. Due Dates

- Full Proposal Target Date(s):
January 13, 2012

D. FastLane/Grants.gov Requirements

- For Proposals Submitted Via FastLane:

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

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

- For Proposals Submitted Via Grants.gov:

Before using Grants.gov for the first time, each organization must register to create an institutional profile. Once registered, the applicant's organization can then apply for any federal grant on the Grants.gov website. Comprehensive information about using Grants.gov is available on the Grants.gov Applicant Resources webpage: http://www07.grants.gov/applicants/app_help_reso.jsp. In addition, the NSF Grants.gov Application Guide provides additional technical guidance regarding preparation of proposals via Grants.gov. For Grants.gov user support, contact the Grants.gov Contact Center at 1-800-518-4726 or by email: support@grants.gov. The Grants.gov Contact Center answers general technical questions related to the use of Grants.gov. Specific questions related to this program solicitation should be referred to the NSF program staff contact(s) listed in Section VIII of this solicitation.

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

VI. NSF PROPOSAL PROCESSING AND REVIEW PROCEDURES

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

A. NSF Merit Review Criteria

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

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

What is the intellectual merit of the proposed activity?

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

Examples illustrating activities likely to demonstrate broader impacts are available electronically on the NSF website at: <http://www.nsf.gov/pubs/gpg/broaderimpacts.pdf>.

Additional Solicitation Specific Review Criteria

In addition to the above criteria, the following factors will be used in the evaluation process:

- Qualifications of the candidate and his/her potential for continued professional growth and leadership in the field;
- Suitability of the sponsoring scientist(s) and host organization(s);
- Prospective benefits to the candidate, the host organization(s), and the scientific discipline; and
- The potential to enhance the broader participation of under-represented groups in ocean sciences in the United States.

NSF staff also 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.

B. Review and Selection Process

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

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

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

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

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

VII. AWARD ADMINISTRATION INFORMATION

A. Notification of the Award

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

B. Award Conditions

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

*These documents may be accessed electronically on NSF's Website at http://www.nsf.gov/awards/managing/award_conditions.jsp?org=NSF. Paper copies may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-7827 or by e-mail from nsfpubs@nsf.gov.

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

C. Reporting Requirements

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

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

PIs are required to use NSF's electronic project-reporting system, available through FastLane, for preparation and submission of annual and final project reports. Such reports provide information on activities and findings, project participants (individual and organizational), publications, and other specific products and contributions. PIs will not be required to re-enter information previously provided, either with a proposal or in earlier updates using the electronic system. Submission of the report via FastLane constitutes certification by the PI that the contents of the report are accurate and complete. The project outcomes report must be prepared and submitted using Research.gov. This report serves as a brief summary, prepared specifically for the public, of the nature and outcomes of the project. This report will be posted on the NSF website exactly as it is submitted by the PI.

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

VIII. AGENCY CONTACTS

Please note that the program contact information is current at the time of publishing. See program website for any updates to the points of contact.

General inquiries regarding this program should be made to:

- Larry H. Weber, telephone: (703) 292-7240, email: lweber@nsf.gov
- Gayle Pugh, telephone: (703) 292-7589, email: gpugh@nsf.gov

For questions related to the use of FastLane, contact:

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

For questions relating to Grants.gov contact:

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

IX. OTHER INFORMATION

The NSF Website provides the most comprehensive source of information on NSF Directorates (including contact information), programs and funding opportunities. Use of this Website by potential proposers is strongly encouraged. In addition, National Science Foundation Update is a free e-mail subscription service designed to keep potential proposers and other interested parties apprised of new NSF funding opportunities and publications, important changes in proposal and award policies and procedures, and upcoming NSF Regional Grants Conferences. Subscribers are informed through e-mail when new publications are issued that match their identified interests. Users can subscribe to this service by clicking the "Get NSF Updates by Email" link on the [NSF web site](#).

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

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research.

NSF receives approximately 55,000 proposals each year for research, education and training projects, of which approximately 11,000 are funded. In addition, the Foundation receives several thousand applications for graduate and postdoctoral fellowships. The agency operates no laboratories itself but does support National Research Centers, user facilities, certain oceanographic vessels and Arctic and Antarctic research stations. The Foundation also supports cooperative research between universities and industry, US participation in international scientific and engineering efforts, and educational activities at every academic level.

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

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

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

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

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

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

PRIVACY ACT AND PUBLIC BURDEN STATEMENTS

The information requested on proposal forms and project reports is solicited under the authority of the National Science Foundation Act of 1950, as amended. The information on proposal forms will be used in connection with the selection of qualified proposals; and project reports submitted by awardees will be used for program evaluation and reporting within the Executive Branch and to Congress. The information requested may be disclosed to qualified reviewers and staff assistants as part of the proposal review process; to proposer institutions/grantees to provide or obtain data regarding the proposal review process, award decisions, or the administration of awards; to government contractors, experts, volunteers and researchers and educators as necessary to complete assigned work; to other government agencies or other entities needing information regarding applicants or nominees as part of a joint application review process, or in order to coordinate programs or policy; and to another Federal agency, court, or party in a court or Federal administrative proceeding if the government is a party. Information about Principal Investigators may be added to the Reviewer file and used to select potential candidates to serve as peer reviewers or advisory committee members. See Systems of Records, [NSF-50](#), "Principal Investigator/Proposal File and Associated Records," 69 Federal Register 26410 (May 12, 2004), and [NSF-51](#), "Reviewer/Proposal File and Associated Records," 69 Federal Register 26410 (May 12, 2004). Submission of the information is voluntary. Failure to provide full and complete information, however, may reduce the possibility of receiving an award.

An agency may not conduct or sponsor, and a person is not required to respond to, an information collection unless it displays a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 3145-0023. Public reporting burden for this collection of information is estimated to average 12 hours per response, including the time for reviewing instructions. Send comments regarding the burden estimate and any other aspect of this collection of information, including suggestions for reducing this burden, to:

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

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