Developing Global Scientists and Engineers (International Research Experiences for Students (IRES) and Doctoral Dissertation Enhancement Projects (DDEP))

PROGRAM SOLICITATION

NSF 04-036

REPLACES DOCUMENT(S):

NSF 03-559



National Science Foundation

Office of International Science and Engineering

Full Proposal Target Date(s):

September 15, 2004

September 15, Annually Thereafter

International Research Experiences for Students (IRES) proposals for activities beginning at least six months after the target date.

February 15, 2005

February 15, Annually Thereafter

International Research Experiences for Students (IRES) proposals for activities beginning at least six months after the target date.

February 15, 2011

February 15, Annually Thereafter

International Research Experiences for Students (IRES) proposals for activities beginning at least six months after the target date.

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

Proposals Accepted Anytime

No deadlines apply for Doctoral Dissertation Enhancement Projects (DDEP). Such proposals may be submitted at any time

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. Proposers who opt to submit prior to January 18, 2011, must also follow the guidelines contained in *NSF* 11-1.

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 PAPP Guide 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.

Postdoctoral Researcher Mentoring Plan: As a reminder, each proposal that requests funding to support postdoctoral researchers must include, as a supplementary document, a description of the mentoring activities that will be provided for such individuals. Please be advised that if required, FastLane will not permit submission of a proposal that is missing a Postdoctoral Researcher Mentoring Plan. See Chapter II.C.2.j of the GPG for further information about the implementation of this requirement.

Program Title:

Developing Global Scientists and Engineers (International Research Experiences for Students (IRES) and Doctoral Dissertation Enhancement Projects (DDEP))

Synopsis of Program:

The United States needs to educate a globally-engaged science and engineering workforce capable of performing in an international research environment in order to remain at the forefront of world science and technology. To support this aim, the Developing Global Scientists and Engineers program provides highest quality international research experiences for U.S. students. Whereas the International Research Experiences for Students (IRES) component of the program supports groups of U.S. undergraduate or graduate students conducting research abroad in collaboration with foreign investigators, the Doctoral Dissertation Enhancement Projects (DDEP) component supports the dissertation research abroad of one doctoral student in collaboration with a foreign investigator.

In addition to the activities described in this solicitation, the Office of International Science and Engineering (OISE) supports other targeted international research and education experiences for early-career scientists and engineers via the Research Experience for Undergraduates program, the East Asia and Pacific Summer Institutes for U.S. Graduate Students, the Pan-American Advanced Studies Institutes (for advanced graduate students and postdoctoral fellows), and the International Research Fellowship Program (for post-doctoral fellows or new faculty). More information is provided below in Section IX. Other Programs of Interest.

Cognizant Program Officer(s):

Fastlane Helpdesk, email: fastlane@nsf.gov, or OISE Fastlane contact, email: oisefl@nsf.gov

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

- 47.041 --- Engineering
- 47.049 --- Mathematical and Physical Sciences
- 47.050 --- Geosciences
- 47.070 --- Computer and Information Science and Engineering
- 47.074 --- Biological Sciences
- 47.075 --- Social Behavioral and Economic Sciences
- 47.076 --- Education and Human Resources 47.078 --- Office of Polar Programs
- 47.079 --- Office of International Science and Engineering
- 47.080 --- Office of Cyberinfrastructure
- 47.081 --- Office of Experimental Program to Stimulate Competitive Research

Award Information

Anticipated Type of Award: Standard Grant Estimated Number of Awards: 24 annually

Anticipated Funding Amount: \$2,100,000 annually, pending availability of funds

Eligibility Information

Organization Limit:

Proposals may only be submitted by the following:

· Proposals must be submitted by a U.S. institution, organization, or professional society.

PI Limit:

Proposals must be submitted by a U.S. institution, organization, or professional society on behalf of the Principal Investigator(s).

Doctoral Dissertation Enhancement Project (DDEP) proposals must be submitted by the faculty advisor of the graduate student whose dissertation project is the subject of the proposal.

Limit on Number of Proposals per Organization:

None Specified

Limit on Number of Proposals per PI: 1

Principal Investigator (PI) should submit only one International Research Experiences for Students (IRES) proposal for any given submission target date.

Proposal Preparation and Submission Instructions

A. Proposal Preparation Instructions

- · Letters of Intent: Not Applicable
- Preliminary Proposal Submission: Not Applicable
- Full Proposal Preparation Instructions: This solicitation contains information that supplements the standard NSF Proposal and Award Policies and Procedures Guide, Part I: Grant Proposal Guide (GPG) proposal preparation guidelines. Please see the full text of this solicitation for further information

B. Budgetary Information

- · Cost Sharing Requirements: Inclusion of voluntary committed cost sharing is prohibited.
- · Indirect Cost (F&A) Limitations:

No indirect costs are allowable on Doctoral Dissertation Enhancement Projects (DDEP) proposals.

On International Research Experiences for Students (IRES) proposals, indirect costs are allowable, consistent with NSF's general policy. Student stipends, travel, and subsistence costs for this training experience are typically listed as participant support costs and as such are not subject to indirect costs. Off-campus indirect rates are applicable to activities at foreign

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):

September 15, 2004

September 15, Annually Thereafter

International Research Experiences for Students (IRES) proposals for activities beginning at least six months after the target date.

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

Proposals Accepted Anytime

No deadlines apply for Doctoral Dissertation Enhancement Projects (DDEP). Such proposals may be submitted at any time

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: Additional reporting requirements apply. Please see the full text of this solicitation for further

TABLE OF CONTENTS

Summary of Program Requirements

- I. Introduction
- **II. Program Description**
- **III. Award Information**
- **IV. Eligibility Information**
- V. Proposal Preparation and Submission Instructions
 - A. Proposal Preparation Instructions
 - B. Budgetary InformationC. Due Dates

 - D. FastLane Requirements
- VI. NSF Proposal Processing and Review Procedures
 - A. NSF Merit Review Criteria
 - B. Review and Selection Process
- VII. Award Administration Information
 - A. Notification of the Award
 - **Award Conditions**
 - C. Reporting Requirements
- **VIII. Agency Contacts**

X. Appendix

I. INTRODUCTION

The United States needs to educate a globally-engaged science and engineering workforce capable of performing in an international research environment in order to remain at the forefront of world science and technology. To support this aim, the Developing Global Scientists and Engineers program provides highest quality international research experiences for U.S. students. Whereas the International Research Experiences for Students component of the program supports groups of U.S. undergraduate or graduate students conducting research abroad in collaboration with foreign investigators, the Doctoral Dissertation Enhancement Projects component supports the dissertation research abroad of one doctoral student in collaboration with a foreign investigator.

NSF does not normally provide support for technical assistance, pilot plant efforts, research requiring security classification, development of products for commercial marketing or market research for a particular project or invention. Similarly, research with disease-related goals, including work on the etiology, diagnosis or treatment of physical or mental disease, abnormality, or malfunction in human beings or animals, is normally not supported.

For a summary of all OISE supported activities, including other programs that contribute to development of a cadre of global scientists and engineers, check the OISE homepage.

II. PROGRAM DESCRIPTION

OISE supports international research and education experience for U.S. scientists early in their careers. This solicitation describes opportunities for two such activities:

A. International Research Experiences for Students (IRES)

IRES aims to provide high quality educational experiences for small groups of U.S. undergraduate and/or graduate students through active research participation in collaboration with foreign researchers at an international site. IRES will help prepare a globally-engaged science and technology workforce by providing students with international collaborative research training and a personal network on which to build future collaborations. IRES proposals must have a unifying research theme that enables a cohort experience for participating students.

IRES proposals should give as many students as feasible, given budgetary and project constraints, the opportunity for a meaningful research experience abroad. Projects which include fewer than four U.S. students per year, or whose annual duration of research conducted abroad is less than four weeks, should be justified by exceptional conditions or circumstances

Proposals are accepted from academic research institutions, professional societies, or consortia on behalf of a small group of students, and proposals involving more than one institution are encouraged.

Proposals should describe the research focus of the proposed activity; the intellectual collaboration with the foreign team; the plan for enhancement of students' professional network and details on mentoring, professional development, and training that students will receive; the recruitment and broadening participation plan, selection process, and pre-departure preparation that will take place; the plans for leveraging U.S. or foreign resources to strengthen the program; the plan to assess the impact of the IRES program, to encourage participants stay engaged in science and engineering, and to disseminate the research results; and the arrangements for housing, health insurance, and other logistics.

Organizers are encouraged to consult with the cognizant OISE program officer http://www.nsf.gov/od/oise/country-list.jsp before submitting their proposal.

Typically, the IRES program does not support summer schools or coursework and does not pay for foreign students to travel to the U.S.

A good source of general information for Pl's planning to take students abroad, which proposers may find valuable, is an OISE workshop report entitled "Looking Beyond the Borders: A Project Director's Handbook of Best Practices for International Research Experiences for Undergraduates, available at http://www.nsf.gov/pubs/2006/nsf06204/index.html.

B. Doctoral Dissertation Enhancement Projects (DDEP)

OISE supports dissertation research conducted by graduate students at a foreign site. Students are expected to work in close cooperation with a host country institution and investigator. The applicant is responsible for making all necessary arrangements with the host country institution and scientist. The doctoral faculty advisor, on behalf of the student, submits the dissertation enhancement proposal. Eligible students should be U.S. citizens or permanent residents enrolled in Ph.D. programs at U.S. institutions who have advanced to candidacy before the submission date. Students from developing countries who are enrolled in Ph.D. programs at U.S. institutions may also apply, but preference is given to qualified U.S. applicants. Before applying, applicants should investigate the dissertation enhancement programs that NSF supports in several disciplines; may of these programs allow for greater budget flexibility when there is an international dimension to the project. Proposals cannot be submitted for simultaneous review to both a research directorate and OISE for the same dissertation project.

C. Additional Considerations

- Regional considerations: For a summary of OISE program activities supported in geographic regions of the world, consult the OISE regional web page. Select the appropriate region for details on cooperative activities with a specific country or international organization. The OISE geographic regions are:
 - Africa, Near East, and South Asia (ANESA)
 - The Americas (AMERICAS)
 - Europe and Eurasia (EE)
 - East Asia and the Pacific (EAP)
- Responsibilities of principal investigators: Pls are responsible for obtaining any required visas for foreign travel and, through the U.S. host research institution, for providing documentation in support of U.S. visas

for foreign counterpart investigators. When applying for visas to enter countries with which NSF has formal bilateral agreements, participants should indicate specifically that the visit would be under a cooperative program between NSF and that foreign country or international organization. Pls are also responsible for obtaining research permits and import/export documents, where necessary. Pls should consult NSF's web page "Information for U.S. Travelers; among other things, this page includes information regarding the collection of genetic resources outside the U.S.

3. A National Science Board Report (NSB 00-217) recommended "NSF should take a more active role in facilitating cooperation in international S & E and higher education with developing countries." Because NSF funds primarily cover the U.S. side of international collaborative activities, Pls are encouraged to work with individuals and/or institutions that have garnered substantial long-term support for research activities, and/or to assist their foreign collaborators in garnering such support.

III. AWARD INFORMATION

Anticipated annual funding for FY 2008 and subsequent years is estimated as:

- International Research Experiences for Students (IRES): \$2,000,000 to fund up to 14 awards;
- · Doctoral Dissertation Enhancement Projects (DDEP): \$100,000 to fund up to 10 awards.

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

IV. ELIGIBILITY INFORMATION

Organization Limit:

Proposals may only be submitted by the following:

• Proposals must be submitted by a U.S. institution, organization, or professional society.

PI Limit:

Proposals must be submitted by a U.S. institution, organization, or professional society on behalf of the Principal Investigator(s).

Doctoral Dissertation Enhancement Project (DDEP) proposals must be submitted by the faculty advisor of the graduate student whose dissertation project is the subject of the proposal.

Limit on Number of Proposals per Organization:

None Specified

Limit on Number of Proposals per PI: 1

Principal Investigator (PI) should submit only one International Research Experiences for Students (IRES) proposal for any given submission target date.

Additional Eligibility Info:

Proposals must be submitted by a U.S. institution, organization, or professional society on behalf of the Principal Investigators(s). Doctoral Dissertation Enhancement Project (DDEP) proposals must be submitted by the faculty advisor of the graduate student whose dissertation project is the subject of the proposal.

V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions

Full Proposal Instructions: Proposals submitted in response to this program solicitation should be prepared and submitted in accordance with the guidelines specified 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-PUBS (7827) or by e-mail from nsfpubs@nsf.gov.

In addition to the GPG, OISE proposals must be prepared in accordance with the instructions in this Program Solicitation. Proposals that do not contain the required information as described below will be considered incomplete and may be returned without review.

- Proposal Cover Sheet. When using Fastlane, from the selection list, choose NSF solicitation number 04-036. Enter the
 proposal title beginning with "International: followed by the descriptive title of the planned activities. Select the checkbox for
 "International Cooperative Activity and name the relevant country or countries. Failure to submit this information may delay
 processing.
- 2. OISE Cover Page Addendum. See Appendix I. When using Fastlane, this Addendum will be listed as a form for completion after the NSF Cover Sheet has been saved with the OISE Program Solicitation selected. Submit this information as a supplemental document when requesting a supplement to an existing award.
- 3. **Project Summary**. Include information on the collaborative aspects of the project as well as the scientific research and educational activities. Intellectual merit and broader impacts anticipated from the international activity must be addressed in separate paragraphs.

- 4. Project Description and Results from Prior NSF Support. Project descriptions for IRES and DDEP should address issues of special importance to the proposed activity, as described below. Information on Results of Prior NSF Support, not to exceed 2 pages, should be placed within this 15-page Project Description section.
 - a. Specifically for International Research Experiences for Students (IRES):
 - Research focus of proposed activity, including specific examples of research projects students will conduct during their time abroad. Novel research which could lead to publication or presentation at a professional meeting should be proposed in the context of current literature.
 - Description of the intellectual collaboration with the foreign team. Describe unique expertise, facilities, data, or research sites of which will be available to students. Describe why the particular host(s) is desirable for this project.
 - Plan describing how the students' professional network will be enhanced, including the development of student-faculty and student-student interaction. Details on mentoring, professional development, and training students will receive from both the U.S. principal investigator and foreign host.
 - Recruitment and broadening participation plan, selection process, and pre-departure preparation should be described in as much detail as possible. Include the names and types of academic institutions where students will be recruited and efforts that will be made to attract members of under-represented groups.
 - Description of any plans for leveraging U.S. or foreign resources to strengthen the program, for example
 taking advantage of campus IT facilities, academic centers, language instruction, international
 programming, or cultural activities. Pl's are encouraged to extend the benefit of this activity to U.S.
 students who do not travel by incorporating approaches that exploit cyberinfrastructure or other advanced
 technologies that facilitate research learning, and collaboration over distances.
 - technologies that facilitate research, learning, and collaboration over distances.
 Plan to assess the IRES program in terms of research experience and network development for students, plan to encourage participants to stay engaged in science and engineering, and plan to disseminate research results.
 - · Arrangements for housing, health insurance and other logistics.
 - b. Specifically for Doctoral Dissertation Enhancement Projects (DDEP):
 - Research objectives and methodology.
 - Description of cooperative arrangement/division of labor/complementary expertise, including identification of host researchers or mentors.
 - · Details on the scientific significance of the host country/counterpart institution.
 - A description of the role of the foreign institution/country in the graduate student's thesis and career objectives and tentative schedule of activities during the stay abroad.
 - Expected scientific/engineering and mutual international benefits to be derived from the project.
- Biographical sketch of foreign counterpart(s). In English; maximum of two pages per person, compliant with standard guidelines. For DDEP proposals, a biographical sketch of the graduate student who will be supported should be included as well.
- Current and Pending Support of Principal Investigator(s). A list of all current and pending research and travel support from any source.
- 7. Special Information/Supplementary Documentation. Letter of endorsement signed by a senior investigator with the counterpart host institution. For DDEP proposals, a supplementary document limited to the following wording "This student has advanced to candidacy for a Ph.D. degree. This statement must be signed and dated by the department chairperson, graduate dean, or other responsible administration official.

Proposers are reminded to identify the program solicitation number (NSF 04-036) 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.

B. Budgetary Information

Cost Sharing: Inclusion of voluntary committed cost sharing is prohibited

Indirect Cost (F&A) Limitations:

No indirect costs are allowable on Doctoral Dissertation Enhancement Projects (DDEP) proposals.

On International Research Experiences for Students (IRES) proposals, indirect costs are allowable, consistent with NSF's general policy. Student stipends, travel, and subsistence costs for this training experience are typically listed as participant support costs and as such are not subject to indirect costs. Off-campus indirect rates are applicable to activities at foreign sites.

Other Budgetary Limitations:

Maximum award sizes:

- 1. IRES: \$50,000 per year for 3 years;
- 2. DDEP: \$15,000 per award for up to 2 years.

Budget Preparation Instructions:

Before preparing an OISE proposal, proposers should refer to the information below, which describes special considerations and funding provisions for certain geographical regions or countries.

OISE support is primarily for the U.S. students' costs incurred as a result of the international cooperation. Support for PI salaries, major pieces of equipment, and large amounts for materials and supplies are not provided. Proposals requiring such support can be submitted to the appropriate disciplinary or interdisciplinary research program.

Proposers are encouraged to work with their foreign counterpart to develop realistic budget requests for their living expenses. In all cases, the requested amount for living expenses cannot exceed the authorized U.S. Government per diem rates (calculated at the authorized daily rate for the first 30 days of a single project visit, and 50 percent of that rate for all time after that.) The 30 days is not aggregated from multiple visits. Per diem rates can be viewed at: http://www.state.gov/m/a/als/prdm.

By law, U.S. flag carriers must be used whenever possible (see Chapter VI.G.1b of the NSF Award & Administration Guide at http://www.nsf.gov/publications/pub_summ.jsp?ods_key=aag).

Allowable budgetary costs normally include:

Participant support costs, including travel, and subsistence for IRES and DDEP. Student stipends should be included as
participant support costs and are available only for IRES. Stipends should be sufficient to attract competitive students.

- For IRES proposals, limited support for international travel and associated living and research costs for the U.S. mentor to spend a short amount of time at the foreign site.
- Publication and communication charges and minor equipment and supply costs.
- Costs associated with program assessment.

C. Due Dates

· Full Proposal Target Date(s):

September 15, 2004

September 15, Annually Thereafter

International Research Experiences for Students (IRES) proposals for activities beginning at least six months after the target date.

February 15, 2005

February 15, Annually Thereafter

International Research Experiences for Students (IRES) proposals for activities beginning at least six months after the target date.

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International Research Experiences for Students (IRES) proposals for activities beginning at least six months after the target date.

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

Proposals Accepted Anytime

No deadlines apply for Doctoral Dissertation Enhancement Projects (DDEP). Such proposals may be submitted at any time

No deadlines apply for Doctoral Dissertation Enhancement Projects (DDEP); such proposals can be submitted at any time.

D. FastLane Requirements

Proposers are required to prepare and submit all proposals for this program solicitation through use of the NSF FastLane system. Detailed instructions regarding the technical aspects of proposal preparation and submission via FastLane are available at: http://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.

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.

Mentoring activities provided to postdoctoral researchers supported on the project, as described in a one-page supplementary document, will be evaluated under the Broader Impacts criterion.

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.

Additional Review Criteria:

In addition to the general NSF review criteria described above, the following criteria will be used in evaluating proposals submitted in response to this solicitation:

- 1. Mutually beneficial international activity with complementary strengths in evidence.
- 2. Novel and innovative activities.

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.

Pls 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. Pls 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.

In their annual and final reports, in the section on "Project Participants/ Graduate Students" and "Project Participants/Undergraduate Students", names of the U.S. students who have participated in the NSF- funded IRES project should be listed. In the final report, in the section on "Activities and Findings / Training and Development," IRES grantees are required to include summary information on the gender, under-represented minority status, disability status, and home institution type of the U.S. students who have participated in the NSF- funded IRES project. In addition, grantees should list the number of weeks each student has spent at each research site abroad. All IRES grantees are expected to evaluate students before and after their participation in the IRES project to assess the effectiveness of the project. Grantees must include a summary of these evaluation results in the final report.

VIII. AGENCY CONTACTS

General inquiries regarding this program should be made to:

• Fastlane Helpdesk, email: fastlane@nsf.gov, or OISE Fastlane contact, email: oisefl@nsf.gov

For questions related to the use of FastLane, contact:

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

Appropriate OISE region/country program manager regarding proposal development, appropriate funding levels, and supplement opportunities and requirements. Contacts for cognizant program manager(s) are available from the OISE Staff by Country page.

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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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.

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

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Send an e-mail to: nsfpubs@nsf.gov

or telephone: (703) 292-7827

To Locate NSF Employees: (703) 292-5111

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

An agency may not conduct or sponsor, and a person is not required to respond to, an information collection unless it displays a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 3145-0058. Public reporting burden for this collection of information is estimated to average 120 hours per response, including the time for reviewing instructions. Send comments regarding the burden estimate and any other aspect of this collection of information, including suggestions for reducing this burden, to:

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

X. APPENDIX		
		Appendix I
	dendum is listed as a forr	age Addendum n for completion after the NSF Cover Sheet has been saved with the OISE ment to an existing award, submit this information as a supplemental
Country # 1:	Country # 2:	Country # 3:
	Itilateral organizations For	reloping Global Scientists and Engineers [] Partnerships for International reign Counterpart Investigator/Organizer/Host (Repeat as needed for up to)
Name:		
Department:	Institu	tion:
Address:		
Phone:	Fax:	Email:
For Planning Visit or Workshop	Location City:	

Country:	Start Date:	_ End Date:		
Demographics (people that will be supported by this project):				
Number of senior US scientists and engineers (excluding those within 6 years of their Ph.D. and graduate and undergraduate students):				
Number of U.S. scientists within 6 years of the Ph.D. (including the PI and/or Co-PI if applicable):				
Number of U.S. graduate students:				
Number of U.S. undergraduate students:				
Number of foreign scientists and engineers (including post-docs, graduate students and undergraduate students) associated with the foreign institution. Include only those that will be supported under this NSF proposal (if allowable, see Budgetary Limitations section).				
Do not count foreign participants that will be supported by non-NSF funds				

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