

International Collaboration in Chemistry between US Investigators and their Counterparts Abroad (ICC)

PROGRAM SOLICITATION

NSF 09-608

REPLACES DOCUMENT(S):

NSF 08-602



National Science Foundation

Directorate for Mathematical & Physical Sciences
Division of Chemistry

Preliminary Proposal Due Date(s) (required) (due by 5 p.m. proposer's local time):

November 03, 2009

Preliminary proposal deadline

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

January 29, 2010

Full proposal deadline

REVISION NOTES

PIs are advised that the *NSF Proposal & Award Policies & Procedures Guide* (PAPPG) includes revised guidelines to implement the mentoring provisions of the America COMPETES Act (ACA) (Pub. L. No. 110-69, Aug. 9, 2007.) As specified in the ACA, each proposal that requests funding to support postdoctoral researchers must include a description of the mentoring activities that will be provided for such individuals. Proposals that do not comply with this requirement will be returned without review (see the PAPP Guide Part I: *Grant Proposal Guide* Chapter II for further information about the implementation of this new requirement).

As announced on May 21, 2009, proposers must prepare and submit proposals to the National Science Foundation (NSF) using the NSF FastLane system at <http://www.fastlane.nsf.gov/>. This approach is being taken to support efficient Grants.gov operations during this busy workload period and in response to OMB direction guidance issued March 9, 2009. NSF will continue to post information about available funding opportunities to Grants.gov FIND and will continue to collaborate with institutions who have invested in system-to-system submission functionality as their preferred proposal submission method. NSF remains committed to the long-standing goal of streamlined grants processing and plans to provide a web services interface for those institutions that want to use their existing grants management systems to directly submit proposals to NSF.

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:

International Collaboration in Chemistry between US Investigators and their Counterparts Abroad (ICC)

Synopsis of Program:

Partnering Foreign Agencies

The Deutsche Forschungsgemeinschaft (DFG; German Research Foundation) of Germany
The Fonds zur Förderung der wissenschaftlichen Forschung (FWF; Austrian Science Fund) of Austria
The Engineering and Physical Sciences Research Council (EPSRC) of the United Kingdom (UK)
The National Natural Science Foundation of China (NSFC)
The Agence Nationale de la Recherche (ANR; National Research Agency) of France
Japan Society for the Promotion of Science (JSPS)
Russian Foundation for Basic Research (RFBR)
Poland Ministry of Science and Higher Education (MSHE)
The Fonds National de la Recherche (FNR; National Research Fund) of Luxembourg

Program Description

The National Science Foundation (NSF) seeks to enhance opportunities for collaborative activities between U.S. and foreign investigators. To realize this goal, the Division of Chemistry at NSF has partnered with the Deutsche Forschungsgemeinschaft (DFG; German Research Foundation), the Fonds zur Förderung der wissenschaftlichen Forschung (FWF; Austrian Science Fund) of Austria, the Engineering and Physical Sciences Research Council (EPSRC) of the United Kingdom, the National Natural Science Foundation of China (NSFC), the Agence Nationale de la Recherche (ANR; National Research Agency) of France, the Japan Society for the Promotion of Science (JSPS), the Russian Foundation for Basic Research (RFBR), Poland Ministry of Science and Higher Education (MSHE), the Fonds National de la Recherche (FNR; National Research Fund) of Luxembourg and Spain Ministerio de Ciencia e Innovacion (MICINN; Ministry of Science and Innovation). NSF Chemistry will accept collaborative research proposals in chemistry, written in English, which establish new bilateral collaborations between US investigators and investigators from the countries listed above. It is envisioned that the program will be expanded to include additional partnering foreign agencies in the coming years.

The program seeks new and highly innovative 3-year collaborative projects that break new ground and demonstrate a high level of synergy between the collaborating investigators. Formation of new collaborations is strongly encouraged. Investigators who have been collaborators must demonstrate that the proposed project is new and represents a new research direction for the collaborative team. The program will not accept proposals for projects that are currently funded by other funding sources. The program will also not accept proposals for projects that largely overlap or are closely related to research projects that are currently carried out in the collaborators' laboratories. The proposed 3-year projects must be in areas that are supported by the NSF Division of Chemistry's newly announced programs in Chemical Synthesis; Chemical Catalysis; Theory, Models and Computational Methods; Chemical Measurement and Imaging; Chemical Structure, Dynamics and Mechanisms; Macromolecular, Supramolecular and Nanochemistry; Environmental Chemical Sciences; or Chemistry of Life Process. A detailed description of these programs can be found at: <http://www.nsf.gov/div/index.jsp?div=CHE>

The proposed projects must also be in areas that are supported by the participating programs in the partnering agencies.

The International Collaboration in Chemistry (ICC) program aims to realize the NSF strategic goal of developing a diverse, globally-engaged, US science and engineering workforce. The program therefore requires that US applicants will allocate significant financial resources in their proposed proposal budget to ensure meaningful participation of students, postdoctoral research associates and junior investigators, including those from underrepresented groups, in the proposed international research collaborations through extended research visits to the collaborator's laboratory abroad. The program also encourages the development and use of cyber infrastructure to increase the level of synergy of the proposed projects.

Cognizant Program Officer(s):

- Dr. Zeev Rosenzweig, Program Director, telephone: (703) 292-7719, email: zrosenzw@nsf.gov

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

- 47.049 --- Mathematical and Physical Sciences

Award Information

Anticipated Type of Award: Standard Grant or Continuing Grant

Estimated Number of Awards: 10 to 40

Anticipated Funding Amount: \$15,000,000 PIs are advised that there are no set aside funds for this solicitation. However, based on results from prior competitions (e.g., 20 awards out of 80 proposals in FY 2009), we anticipate funding approximately \$15,000,000 in 3-year awards. The exact number of awards and total funding depend on the quality of proposals and availability of funds.

Eligibility Information

Organization Limit:

Proposals may only be submitted by the following:

- Universities and Colleges - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members. Such organizations also are referred to as academic institutions.

PI Limit:

a) A US investigator must establish a partnership with an investigator in one of the following countries: Germany, Austria, United Kingdom, China, France, Japan, Russia, Poland, Luxembourg and Spain. The collaborating foreign investigator must be eligible for funding from his/her National Funding Agency as follows: DFG (Germany), FWF (Austria), EPSRC (UK), NSFC (China), ANR (France), JSPS (Japan), RFBR (Russia), MSHE (Poland), FNR (Luxembourg) and MICINN (Spain).

b) The solicitation calls for new projects in areas that are supported by the Division of Chemistry's programs in Chemical Synthesis; Chemical Catalysis; Theory, Models and Computational Methods; Chemical Measurement and Imaging; Chemical Structure, Dynamics and Mechanisms; Macromolecular, Supramolecular and Nanochemistry; Environmental Chemical Sciences; or Chemistry of Life Process. It is generally not the practice of the Chemistry Division to make multiple awards to the same individual. Therefore, potential applicants are strongly encouraged to choose between submitting a proposal in response to this solicitation and submitting an unsolicited proposal to the Division of Chemistry. Potential applicants are also advised to choose between submitting a proposal in response to this solicitation and submitting a proposal to the Materials World Network program of the Division of Material

Research (DMR) of NSF

(http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12820&org=DMR&sel_org=DMR&from=fund).

Division of Chemistry grantees who wish to add an international collaboration component to their currently funded projects are advised to submit supplemental funding requests to their existing awards rather than to respond to this solicitation.

Limit on Number of Proposals per Organization:

None Specified

Limit on Number of Proposals per PI: 1

A US investigator may participate (as a PI, Co-PI or other senior research associate) in only one proposal submitted in response to this solicitation.

Proposal Preparation and Submission Instructions

A. Proposal Preparation Instructions

- **Letters of Intent:** Not Applicable
- **Preliminary Proposals:** Submission of Preliminary Proposals is required. Please see the full text of this solicitation for further information.
- **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:** Cost Sharing is not required under this solicitation.
- **Indirect Cost (F&A) Limitations:** Not Applicable
- **Other Budgetary Limitations:** Not Applicable

C. Due Dates

- **Preliminary Proposal Due Date(s) (required)** (due by 5 p.m. proposer's local time):
November 03, 2009
Preliminary proposal deadline
- **Full Proposal Deadline(s)** (due by 5 p.m. proposer's local time):
January 29, 2010
Full proposal deadline

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

Recognizing the importance of international collaborations in promoting scientific discoveries, the National Science Foundation (NSF) and its counterpart agencies abroad seek to enhance opportunities for collaborative activities in chemistry between US and foreign investigators. The NSF Division of Chemistry will accept new **bilateral** collaborative research proposals, which are not currently funded by other sources, with each of the partnering agencies listed above. The proposals should establish new partnerships between US researchers and researchers from one of the following countries: Germany, Austria, UK, China, France, Japan, Russia, Poland, Luxembourg and Spain. The proposed projects must have clear relevance to areas supported by Division of Chemistry at NSF and by the participating programs in the partnering countries.

II. PROGRAM DESCRIPTION

The National Science Foundation (NSF) seeks to enhance opportunities for collaborative activities between US and foreign investigators. To realize this goal, the Division of Chemistry at NSF has partnered with the Deutsche Forschungsgemeinschaft (DFG; German Research Foundation), the Förderung der wissenschaftlichen Forschung (FWF; Austrian Science Fund) of Austria, the Engineering and Physical Sciences Research Council (EPSRC) of the United Kingdom, the National Natural Science Foundation of China (NSFC), the Agence Nationale de la Recherche (ANR; National Research Agency) of France, Japan Society for the Promotion of Science (JSPS), Russian Foundation for Basic Research (RFBR), Poland Ministry of Science and Higher Education (MSHE), the Fonds National de la Recherche de Luxembourg (FNR) and Spain Ministerio de Ciencia e Innovación (MICINN, Ministry of Science and Innovation) to establish new bilateral collaborations between US investigators and their counterparts abroad. The proposals will be written in English.

The program seeks new and highly innovative 3-year collaborative projects that break new ground and demonstrate a high level of synergy between the collaborating investigators. Formation of new collaborations is strongly encouraged. Investigators who have been collaborators must demonstrate that the proposed project is new and represents a new research direction. The program will not accept proposals for projects that are currently funded by other funding sources. The program will also not accept proposals for projects that largely overlap or are closely related to research projects that are currently carried out in the collaborators' laboratories. The proposed 3-year projects must be in areas that are supported by the NSF Division of Chemistry's programs in Chemical Synthesis; Chemical Catalysis; Theory, Models and Computational Methods; Chemical Measurement and Imaging; Chemical Structure, Dynamics and Mechanisms; Macromolecular, Supramolecular and Nanochemistry; Environmental Chemical Sciences; or Chemistry of Life Process. The program seeks to realize the NSF strategic goal of developing a diverse, globally-engaged, US science and engineering workforce. The program therefore requires that US investigators will allocate significant financial resources to ensure meaningful participation of students, postdoctoral research associates and junior investigators, including those from under represented groups, in the proposed international research collaborations through extended research visits in their collaborator's laboratory abroad. The program also encourages the development and use of cyber infrastructure to increase the level of synergy of the proposed projects.

US investigators will submit their proposals to NSF through Fastlane. Foreign investigators will submit an identical proposal to the partnering international agency if required. NSF and the partnering international funding agencies will review and make joint funding decisions on these proposals. Reviewers of these proposals will be selected jointly by NSF and the appropriate international partnering agency. NSF awards will support the research of US investigators while the partnering international funding agencies will support the research of the collaborating foreign investigators.

III. AWARD INFORMATION

Anticipated Type of Award: Continuing Grant or Standard Grant

Estimated Number of Awards: 10 to 40

Anticipated Funding Amount: There are no set aside funds for this solicitation. However, based on results from prior competitions (e.g., 20 awards out of 80 proposals in FY 2009), we anticipate funding approximately \$15,000,000 in 3-year awards.

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

IV. ELIGIBILITY INFORMATION

Organization Limit:

Proposals may only be submitted by the following:

- Universities and Colleges - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members. Such organizations also are referred to as academic institutions.

PI Limit:

a) A US investigator must establish a partnership with an investigator in one of the following countries: Germany, Austria, United Kingdom, China, France, Japan, Russia, Poland, Luxembourg and Spain. The collaborating foreign investigator must be eligible for funding from his/her National Funding Agency as follows: DFG (Germany), FWF (Austria), EPSRC (UK), NSFC (China), ANR (France), JSPS (Japan), RFBR (Russia), MSHE (Poland), FNR (Luxembourg) and MICINN (Spain).

b) The solicitation calls for new projects in areas that are supported by the Division of Chemistry's programs in Chemical Synthesis; Chemical Catalysis; Theory, Models and Computational Methods; Chemical Measurement and Imaging; Chemical Structure, Dynamics and Mechanisms; Macromolecular, Supramolecular and Nanochemistry; Environmental Chemical Sciences; or Chemistry of Life Process. It is generally not the practice of the Chemistry Division to make multiple awards to the same individual. Therefore, potential applicants are strongly encouraged to choose between submitting a proposal in response to this solicitation and submitting an unsolicited proposal to the Division of Chemistry. Potential applicants are also advised to choose between submitting a proposal in response to this solicitation and submitting a proposal to the Materials World Network program of the Division of Material Research (DMR) of NSF (http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=12820&org=DMR&sel_org=DMR&from=fund). Division of Chemistry grantees who wish to add an international collaboration component to their currently funded projects are advised to submit supplemental funding requests to their existing awards rather than to respond to this solicitation.

Limit on Number of Proposals per Organization:

None Specified

Limit on Number of Proposals per PI: 1

A US investigator may participate (as a PI, Co-PI or other senior research associate) in only one proposal submitted in response to this solicitation.

Additional Eligibility Info:

V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions

Preliminary Proposals (required): Preliminary proposals are required and must be submitted via the NSF FastLane system.

Preliminary Proposal Submission Requirements

Preliminary proposals must be submitted to NSF by the US Investigator. The same preliminary proposal must be submitted to the partnering funding agency by the foreign investigator unless noted otherwise in the foreign agency call for this program. Foreign investigators must follow the instructions for preliminary proposal and full proposal preparation and submission that are given in the foreign agencies' separate calls for this collaborative program.

Preliminary Proposal Content and Page Limit

Preliminary proposals must adhere to the general guidelines described in NSF's Grant Proposal Guide (GPG), except as specified below. One preliminary proposal per project should be submitted.

Cover sheet - The title of the proposal to NSF should begin as: "International Collaboration in Chemistry:..." In addition, the US PI should check the box, "International Cooperative Activities" listed under Other Information and identify the appropriate country involved. The cover sheet should identify the Division of Chemistry program to consider the application and list the names and affiliations of the US investigators. The PI must select the option indicating that this is a preliminary proposal. For correct FastLane processing, enter \$2 as the requested amount.

Project Description, limited to 2 pages, should include the following sections:

Section 1 - Names, affiliations and contact information (phone number and e-mail address) of the foreign investigator.

Section 2 - The proposed research problem, key preliminary results and an outline of the research plan.

Section 3 - The role of each collaborative investigator and relevant expertise.

Section 4 - The collaborative approach to be used and the expected synergy.

Section 5 - A plan to facilitate meaningful involvement of students, postdoctoral researchers and junior investigators in the proposed project including international training experience.

References Cited may contain up to 10 leading references to provide context for the proposed research. The reference section will not count against the 2-page limit of the preliminary proposal project description.

For the US investigator, a Biographical Sketch should be submitted using the NSF standard format specified in the GPG. For the

foreign investigator, the biographical sketch should be limited to 2 pages and be a part of a FastLane supplementary document.

For the US investigator, a Current and Pending Support statement should be submitted using the NSF standard format specified in the GPG. For the foreign investigator the information about current and pending support should be a part of a FastLane supplementary document.

The remaining standard proposal sections (Budget, Budget Justification, Facilities and Equipment) are not permitted in this preliminary proposal. Other supporting documentation including preprints or reprints and letters of support or collaboration are not permitted in this preliminary proposal.

Preliminary Proposal Review Procedure

The preliminary proposals will be reviewed by NSF and the partnering foreign agencies. At NSF, the preliminary proposals will be reviewed for their fit to NSF and specifically to the NSF Division of Chemistry in terms of scientific content. The Division of Chemistry at NSF will accept preliminary proposals in areas that are supported by its newly announced programs in Chemical Synthesis, Chemical Catalysis, New Theoretical, Modeling and Computational Methods, Chemical Imaging and Measurement, Chemical Structure, Dynamics and Mechanisms Macromolecular Supramolecular and Nanochemistry, Environmental Chemical Sciences or Chemistry of Life Process. A detailed description of these programs can be found at: <http://www.nsf.gov/div/index.jsp?div=CHE>

The preliminary proposals will also be reviewed to ensure that the proposed projects do not significantly overlap with projects that are already funded by NSF or other US funding agencies. US PIs of previously declined projects should confirm with their foreign collaborators that the foreign agency is willing to accept a revised submission of the proposal. If allowed by the foreign agency, preliminary proposals of previously declined projects should provide a summary of changes made to the proposal in response to reviewer comments. A declined project must be significantly modified to be considered for full proposal submission. Preliminary proposals of renewal projects should provide a summary of previous accomplishments including a list of collaborative publications and provide a rationale for the renewal of the collaborative project. Upon completion of the review of the preliminary proposals, NSF and the appropriate partnering agency will make a joint decision whether to encourage or discourage submission of full proposals to the program. Investigators will be notified of the decision 60 days prior to the full proposal submission deadline whenever possible.

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.

Full proposals will be submitted by the US organizations through Fastlane. The following guidelines, in addition to those in the GPG, should be followed when preparing the proposal to NSF:

- In the proposal cover sheet, the title of the proposal to NSF should begin as: "International Collaboration in Chemistry..." In addition, the US PI should check box, International Cooperative Activities listed under Other Information and identify the appropriate country involved.
- The duration of the project would typically be 3 years for the US and foreign side of the collaboration.
- The Project Summary, which is limited to 1 page, must address in separate statements the intellectual merit and the broader impacts of the proposed activity and the value added of the proposed international collaboration.
- The Project Description may not exceed 15 pages.
- As indicated in the NSF Grant Proposal Guide (GPG), the Project Description must include a section on Results from Current/Prior NSF Support, which is limited to a maximum of 5 pages. Potential applicants are advised that proposals without a section describing results from current/previous NSF support will be returned without review.
- The project description should clearly state the need and anticipated scientific benefits of the proposed international collaboration and clearly describe the intellectual contribution of each collaborator to the proposed project along with a timeline of their proposed research work. In addition, the Project Description must address the ICC solicitation requirement to meaningfully involve students, postdoctoral research associates and junior investigators, including those from under represented groups, in the proposed research collaborations through extended research visits in the collaborator's laboratory abroad.
- Information pertinent to the foreign investigator will be submitted as a single supplementary document through NSF FastLane. This supplementary document must contain the foreign investigator's budget request from the partnering agency, a current and pending support list, and a 2-page biographical sketch, which includes a list of collaborators, doctoral and postdoctoral advisors, and current and former students and postdoctoral fellows. Some partnering agencies require that the supplementary document will contain additional information. For example, the NSF supplementary document of NSF-JSPS proposals will be the entire JSPS proposal submission. US applicants are therefore advised that their foreign collaborators must follow the guidelines of their agencies, as listed in their ICC solicitation, when preparing their supplementary document.
- US PIs are advised to make sure that their foreign collaborators consult their agencies' corresponding solicitations to find out whether they are eligible to submit a proposal to the ICC program, whether a separate submission of the proposal to their agency is required and what the submission requirements are. The proposal will be returned without review if the foreign collaborator fails to follow the guidelines of his/her funding agency.

Proposers are reminded to identify the program solicitation number (NSF 09-608) 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: Cost sharing is not required under this solicitation.

C. Due Dates

- **Preliminary Proposal Due Date(s) (required)** (due by 5 p.m. proposer's local time):
November 03, 2009
Preliminary proposal deadline
- **Full Proposal Deadline(s)** (due by 5 p.m. proposer's local 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 two NSB-approved merit review criteria, the reviewers will be asked to specifically comment on whether the researchers demonstrated a clear need for international collaboration, the synergy between the collaborating groups, the

collaboration plan between the investigators, and whether the proposed project provides meaningful international training experience to students and junior researchers. Foreign investigators will need to address the review criteria of their partnering agency.

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, Program Officers in charge from NSF and the partnering agency recommend to the cognizant NSF Division Director and the decision making bodies of the partnering agency 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 date of receipt. The interval ends when the NSF Division Director and the decision making bodies of the partnering agency accept the Program Officers' recommendation. A proposal can only be funded if both NSF and the foreign partnering agency agree to fund it.

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 US Principal Investigator/Project Director by the NSF Program Officer. In addition, the investigators 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.

Failure to provide the required annual or final project reports 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.

VIII. AGENCY CONTACTS

General inquiries regarding this program should be made to:

- Dr. Zeev Rosenzweig, Program Director, telephone: (703) 292-7719, email: zrosenzw@nsf.gov

For questions related to the use of FastLane, contact:

- FastLane Help Desk, telephone: 1-800-673-6188; e-mail: fastlane@nsf.gov.
- Paul Spyropoulos, Computer Specialist, 1055 S, telephone: (703) 292-4968, fax: (703) 292-9037, email: pspyropo@nsf.gov

Contacts and Web links to the ICC Program Announcement at International Partnering Agencies

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DFG ICC Program Announcement

http://www.dfg.de/aktuelles_presse/information_fuer_die_wissenschaft/ausschreibungen_mit_internationalem_bezug/info_wissenschaft_56_09.html

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FWF ICC Program Announcement

<http://www.fwf.ac.at/de/news/am20090821.html>

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EPSRC ICC Program Announcement

<http://www.epsrc.ac.uk/CallsForProposals/nsfepsrcchem09.htm>

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ANR ICC Program Announcement

<http://www.agence-nationale-recherche.fr/Documents?IngInfold=248>

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JSPS ICC Program Announcement

<http://www.jps.go.jp/english/e-bottom/index.html>

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RFBR ICC Program Announcement
http://www.rfbr.ru/default.asp?doc_id=29439

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MSHE ICC Program Announcement
http://www.nauka.gov.pl/mn/index.jsp?place=Lead08&news_cat_id=1476&news_id=8914&layout=2&page=text

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MICINN ICC Program Announcement
http://web.micinn.es/contenido.asp?menu1=6&menu2=3&menu3=&dir=05_Investigacion/032CoopIntern/03@Cooperacion/00-PgsInts

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FNR ICC Program Announcement
<http://www.fnr.lu/en/News-Events/News/2010-Call-for-Proposals-in-International-Collaboration-in-Chemistry-with-NSF>

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](#).

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- **Location:** 4201 Wilson Blvd. Arlington, VA 22230
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- **TDD (for the hearing-impaired):** (703) 292-5090
- **To Order Publications or Forms:**
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