Linguistics Program - Doctoral Dissertation Research Improvement Grants (Ling-DDRI)

PROGRAM SOLICITATION
NSF 20-538

REPLACES DOCUMENT(S):
NSF 14-551

Full Proposal Target Date(s):
July 15, 2020
July 15, Annually Thereafter
January 15, 2021
January 15, Annually Thereafter

IMPORTANT INFORMATION AND REVISION NOTES

Innovating and migrating proposal preparation and submission capabilities from FastLane to Research.gov is part of the ongoing NSF information technology modernization efforts, as described in Important Notice No. 147. In support of these efforts, research proposals submitted in response to this program solicitation must be prepared and submitted via Research.gov or via Grants.gov, and may not be prepared or submitted via FastLane.

Any proposal submitted in response to this solicitation should be submitted in accordance with the revised NSF Proposal & Award Policies & Procedures Guide (PAPPG) (NSF 22-1), which is effective for proposals submitted, or due, on or after October 4, 2021.

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:
Linguistics Program - Doctoral Dissertation Research Improvement Grants (Ling-DDRI)

Synopsis of Program:
The Linguistics Program supports basic science in the domain of human language, encompassing investigations of the grammatical properties of individual human languages, and of natural language in general. Research areas include syntax, linguistic semantics and pragmatics, morphology, phonetics, and phonology.

The program encourages projects that are interdisciplinary in methodological or theoretical perspective, and that address questions that cross disciplinary boundaries, such as (but not limited to):

- What are the psychological processes involved in the production, perception, and comprehension of language?
- What are the computational properties of language and/or the language processor that make fluent production, incremental comprehension or rapid learning possible?
- How do the acoustic and physiological properties of speech inform our theories of language and/or language processing?
- What role does human neurobiology play in shaping the various components of our linguistic capacities?
- How does language develop in children?
- What social and cultural factors underlie language variation and change?

The Linguistics Program does not make awards to support clinical research projects, nor does it support work to develop or assess pedagogical methods or tools for language instruction.

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.

- Mary Paster, Program Director, telephone: (703) 292-2762, email: mpaster@nsf.gov
- Jorge Valdes Kroff, Program Director, W 14253, telephone: (703) 292-7920, email: jvaldesk@nsf.gov
- Kenyatta Johnson, Program Specialist, telephone: (703) 292-4850, email: kenjohns@nsf.gov
- Jacquelyn Clements, Senior Program Officer – NEH, telephone: (703) 606-8475, email: jclements@neh.gov

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

- 47.075 — Social Behavioral and Economic Sciences

**Award Information**

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

**Estimated Number of Awards:** 25 to 35

During a fiscal year, the Linguistics Program expects to recommend (either on its own or jointly with one or more other NSF programs) a total of 25 to 35 Doctoral Dissertation Research Improvement (DDRI) awards.

**Anticipated Funding Amount:** $300,000 to $400,000

The anticipated funding amount is $300,000 to $400,000 per fiscal year.

Project budgets should be developed at scales appropriate for the work to be conducted. Proposal budgets cannot exceed $12,000 in direct costs for the entire duration of the award; indirect costs are in addition to this maximum direct cost limitation and are subject to the awardee’s current Federally negotiated indirect cost rate. The maximum project duration is 24 months.

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

**Eligibility Information**

**Who May Submit Proposals:**

Proposals may only be submitted by the following:

- Institutions of Higher Education (IHEs) - Two- and four-year IHEs (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members. Special Instructions for International Branch Campuses of US IHEs: If the proposal includes funding to be provided to an international branch campus of a US institution of higher education (including through use of subawards and consultant arrangements), the proposer must explain the benefit(s) to the project of performance at the international branch campus, and justify why the project activities cannot be performed at the US campus.

**Who May Serve as PI:**

DDRI proposals must be submitted with a principal investigator (PI) and a co-principal investigator (co-PI). The PI must be the advisor of the doctoral student or another faculty member at the US IHE where the doctoral student is enrolled. The doctoral student must be a co-PI.

**Limit on Number of Proposals per Organization:**

There are no restrictions or limits.

**Limit on Number of Proposals per PI or co-PI:**

There is no limitation on the number of times that a graduate advisor may be the principal investigator on a DDRI proposal submitted to the Linguistics Program, either during a specific competition or over the course of her/his career. Doctoral students, however, are limited to two DDRI submissions in the course of their graduate career.

**Proposal Preparation and Submission Instructions**

**A. Proposal Preparation Instructions**

- **Letters of Intent:** Not required
- **Preliminary Proposal Submission:** Not required
- **Full Proposals:**
  - Full Proposals submitted via Research.gov: NSF Proposal and Award Policies and Procedures Guide (PAPPG) guidelines apply. The
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):**
  - July 15, 2020
  - July 15, Annually Thereafter
  - January 15, 2021
  - January 15, Annually Thereafter

**Proposal Review Information Criteria**

**Merit Review Criteria:**
National Science Board approved criteria apply.

**Award Administration Information**

**Award Conditions:**
Standard NSF award conditions apply.

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

**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 Information
  C. Due Dates
  D. Research.gov/Grants.gov Requirements
- **VI. NSF Proposal Processing and Review Procedures**
  A. Merit Review Principles and Criteria
  B. Review and Selection Process
- **VII. Award Administration Information**
  A. Notification of the Award
  B. Award Conditions
  C. Reporting Requirements
- **VIII. Agency Contacts**
- **IX. Other Information**
I. INTRODUCTION

As part of its effort to encourage and support projects that explicitly integrate education and basic research, the Linguistics Program provides support to enhance and improve the dissertation projects conducted by doctoral students enrolled in U.S. universities in linguistics and associated fields.

This solicitation provides instructions for preparing proposals for Doctoral Dissertation Research Improvement (DDRI) awards to the Linguistics Program. It replaces instructions that had been included in the Linguistics Program Doctoral Dissertation Research Improvement Grant (LING-DDRI) announcement (NSF 14-551).

The Linguistics Program supports basic science in the domain of human language, encompassing investigations of the grammatical properties of individual human languages, and of natural language in general. Research areas include syntax, semantics, morphology, phonetics, and phonology.

The program encourages projects that are interdisciplinary in methodological or theoretical perspective, and that address questions that cross disciplinary boundaries, such as (but not limited to):

- What are the psychological processes involved in the production, perception, and comprehension of language?
- What are the computational properties of language and/or the language processor that make fluent production, incremental comprehension or rapid learning possible?
- How do the acoustic and physiological properties of speech inform our theories of language and/or language processing?
- What role does human neurobiology play in shaping the various components of our linguistic capacities?
- How does language develop in children?
- What social and cultural factors underlie language variation and change?

II. PROGRAM DESCRIPTION

Through its competitive grants competitions, the Linguistics Program of the U.S. National Science Foundation seeks to advance basic understanding and methods in the study of language.

The Linguistics Program expects that the research it supports will draw upon and enhance fundamental theory in linguistics, and it will encourage and support potentially transformative research that has potential larger-scale, longer-term significance for both basic understanding and for societal benefit.

Doctoral dissertation research improvement (DDRI) awards provide support to enhance and improve the dissertation projects conducted by doctoral students enrolled in U.S. IHEs who are conducting scientific research that enhances basic scientific knowledge. As noted in the title of the awards, DDRI awards are meant to improve the conduct of the dissertation research: All DDRI proposals recommended for funding by the Linguistics Program must clearly demonstrate how the proposed research will contribute to the advancement of the basic science of language and linguistics.

DDRI awards are not intended to provide the full costs of a student's doctoral dissertation research. DDRI awards recommended by the Linguistics Program will not exceed $12,000 in allowable direct costs (plus appropriate indirect costs) over the duration of the award. Project budgets should be developed at scales appropriate for the work to be conducted and may only include costs directly associated with the conduct of dissertation research.

DDRI awards provide funding for research costs not normally covered by the student's university. Examples of the kinds of expenses that may be included in a DDRI proposal budget are the following:

- Costs associated with travel and related expenses to conduct research at field sites, archives, specialized collections, and/or facilities away from the student's campus
- Costs for data-collection activities, including the conduct of experiments, surveys and/or questionnaires
- Costs for equipment necessary for the conduct of the project that will be devoted to the project over the duration of the award. (Note that any equipment purchased with NSF funds becomes property of the awardee organization.)
- Costs for payments to research subjects and/or language informants
- Costs for materials and supplies required for the conduct of the project
- Costs for travel by the doctoral student to one domestic professional meeting to present preliminary research results and obtain feedback to further improve the project. (Note budgetary limitations specified below in Section V.B of this solicitation. Note also that the Linguistics Program will not recommend a DDRI award solely to provide support to share research results at conferences.)

Costs that cannot be reimbursed by DDRI awards include the following:

- A stipend or salary for the doctoral student or advisor. (Note that salaries or payments for work by other individuals whose assistance may be essential to the conduct of the project may be permitted when there is sound justification for such expenses.)
- Costs for tuition, textbooks, or other items not directly related to the conduct of dissertation research.
- Publication costs for articles based on the dissertation, except when the university's degree requirements permit the substitution of published research results for a free-standing dissertation
- Costs for travel of the dissertation advisor(s) to the field site and/or professional meetings.

DDRI awards may be for one or two years in duration. The dissertation does not have to be completed during that time period, but costs associated with research activities to be reimbursed with DDRI funds must be incurred while the award is active.

III. AWARD INFORMATION

Anticipated Type of Award: Continuing Grant or Standard Grant
Estimated Number of Awards: 25 to 35

During a fiscal year, the Linguistics Program expects to recommend (either on its own or jointly with one or more other NSF programs) a total of 25 to 35 Doctoral Dissertation Research Improvement (DDRI) awards.

Anticipated Funding Amount: $300,000 to $400,000

The anticipated funding amount is $300,000 to $400,000 per fiscal year.

Project budgets should be developed at scales appropriate for the work to be conducted. Proposal budgets cannot exceed $12,000 in direct costs for the entire duration of the award; indirect costs are in addition to this maximum direct cost limitation and are subject to the awardee’s current Federally negotiated indirect cost rate. The maximum project duration is 24 months.

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

IV. ELIGIBILITY INFORMATION

Who May Submit Proposals:

Proposal may only be submitted by the following:

- Institutions of Higher Education (IHEs) - Two- and four-year IHEs (including community colleges) accredited in, and having a campus located in the US, acting on behalf of their faculty members. Special Instructions for International Branch Campuses of US IHEs: If the proposal includes funding to be provided to an international branch campus of a US institution of higher education (including through use of subawards and consultant arrangements), the proposer must explain the benefit(s) to the project of performance at the international branch campus, and justify why the project activities cannot be performed at the US campus.

Who May Serve as PI:

DDRI proposals must be submitted with a principal investigator (PI) and a co-principal investigator (co-PI). The PI must be the advisor of the doctoral student or another faculty member at the US IHE where the doctoral student is enrolled. The doctoral student must be a co-PI.

Limit on Number of Proposals per Organization:

There are no restrictions or limits.

Limit on Number of Proposals per PI or co-PI:

There is no limitation on the number of times that a graduate advisor may be the principal investigator on a DDRI proposal submitted to the Linguistics Program, either during a specific competition or over the course of her/his career. Doctoral students, however, are limited to two DDRI submissions in the course of their graduate career.

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 Research.gov or Grants.gov.

- Full Proposals submitted via Research.gov: Proposals submitted in response to this program solicitation should be prepared and submitted in accordance with the general guidelines contained in the NSF Proposal and Award Policies and Procedures Guide (PAPPG). The complete text of the PAPPG is available electronically on the NSF website at: https://www.nsf.gov/publications/pub_summ.jsp?ods_key=pappg. Paper copies of the PAPPG may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-8134 or by e-mail from nsfpubs@nsf.gov. The Prepare New Proposal setup will prompt you for the program solicitation number.

- 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: (https://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) 292-8134 or by e-mail from nsfpubs@nsf.gov.

See PAPPG Chapter II.C.2 for guidance on the required sections of a full research proposal submitted to NSF. Please note that the proposal preparation instructions provided in this program solicitation may deviate from the PAPPG instructions.

A. Proposal Preparation Instructions

An outstanding dissertation proposal will clearly specify the research questions and hypotheses, the data relevant to answering those research questions, the theoretical framework being used and the methods of analysis. It will provide a brief literature review and a clear work plan. It will also address the NSF review
Letters of recommendation, letters of support, transcripts, and other such materials should not be included as supplementary documents. Also, survey or unless authorized here or in the NSF PAPPG or by the NSF Grants.gov Application Guide, no other materials should be included in this section.

To collaborate or provide in-kind support for the project in ways that have been outlined in the project description. Collaboration or commitment letters should not originate from a student's university or from that university. These letters of collaboration or letters of commitment should focus on the willingness of the letter's author to argue for support of the project by articulating in greater detail what activities the collaborator will undertake and/or by elaborating reasons for endorsing the student's doctoral dissertation research described in this proposal soon after a DDRI award is made. In addition, the PI must affirm that she/he has read the proposal and believes that it makes a strong case for support of the dissertation research project. The below template must be used to prepare this statement, with changes permitted only to provide information where there are blank lines in the template. Additional text is not permitted. The statement must be signed by the PI. (In very unusual cases, an electronic signature or equivalent may be permitted, but replacement of a real signature with a PI's real equivalent is permitted only with prior written approval from a Linguistics Program officer.)

Required template for a statement signed by the PI

To: NSF Linguistics Program

From: [Insert name of PI]

By signing below, I affirm that the doctoral student is at a stage in her/his graduate program that makes it very likely that the student will be able to undertake the dissertation research described in this proposal soon after a DDRI award is made. I affirm that I have read this proposal, and I believe that this proposal makes a strong case for NSF support for this project.

Signed: [Insert PI's signature]

University: [Insert university name]

Date: [Insert date that the statement is signed by the PI]

Brief statements (whether written as letters or as free-standing e-mail messages) from individuals and/or organizations that will work with the doctoral student and/or provide in-kind support for the proposed project may be included as supplementary documents. Such letters are not needed from other individuals at the student's university or from that university. These letters of collaboration or letters of commitment should focus on the willingness of the letter's author to collaborate or provide in-kind support for the project in ways that have been outlined in the project description. Collaboration or commitment letters should not argue for support of the project by articulating in greater detail what activities the collaborator will undertake and/or by elaborating reasons for endorsing the project. The inclusion of such prohibited content may result in the proposal being returned without review.

Unless authorized here or in the NSF PAPPG or by the NSF Grants.gov Application Guide, no other materials should be included in this section.

Letters of recommendation, letters of support, transcripts, and other such materials should not be included as supplementary documents. Also, survey or
interview protocols are not permitted in this section, nor are reprints of articles previously published by the investigators. Proposals that include materials in this section that belong in the project description may be returned without review.

**B. Budgetary Information**

**Cost Sharing:**

Inclusion of voluntary committed cost sharing is prohibited.

**Other Budgetary Limitations:**

Project budgets should be developed at scales appropriate for the work to be conducted. The total direct costs for LING DDRI awards may not exceed $12,000, plus applicable indirect costs. Please see the Program Description (Section II above) for information on allowable expenses.

**Budget Preparation Instructions:**

The direct costs requested in a DDRI proposal must be allowable costs that will improve the conduct of dissertation research. Student stipends, tuition expenses, assistantships, and the doctoral advisor's travel expenses are NOT eligible for support. Travel expenses for the doctoral student to attend one domestic conference to disseminate the results of research (and obtain constructive feedback prior to completion of the dissertation) may be included in the proposal, but DDRI awards recommended by the Linguistics Program should not have direct conference travel costs that exceed $1,000. DDRI awards will not be recommended solely to support travel to conferences to disseminate research results.

**C. Due Dates**

- **Full Proposal Target Date(s):**
  - July 15, 2020
  - July 15, Annually Thereafter
  - January 15, 2021
  - January 15, Annually Thereafter

**D. Research.gov/Grants.gov Requirements**

**For Proposals Submitted Via Research.gov:**

To prepare and submit a proposal via Research.gov, see detailed technical instructions available at: https://www.research.gov/research-portal/appmanager/base/desktop?nfpb=true&nodeLabel=research_node_display&nodePath=/researchGov/Service/Desktop/ProposalPreparationandSubmission.html. For Research.gov user support, call the Research.gov Help Desk at 1-800-673-6188 or e-mail rgov@nsf.gov. The Research.gov Help Desk answers general technical questions related to the use of the Research.gov 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.

**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: https://www.grants.gov/web/grants/applicants.html. In addition, the NSF Grants.gov Application Guide (see link in Section V.A) provides instructions regarding the technical 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.

Proposers that submitted via Research.gov may use Research.gov to verify the status of their submission to NSF. For proposers that submitted via Grants.gov, until an application has been received and validated by NSF, the Authorized Organizational Representative may check the status of an application on Grants.gov. After proposers have received an e-mail notification from NSF, Research.gov should be used to check the status of an application.

**VI. NSF PROPOSAL PROCESSING AND REVIEW PROCEDURES**

Proposals received by NSF are assigned to the appropriate NSF program for acknowledgement and, if they meet NSF requirements, for review. 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 either as ad hoc reviewers, panelists, or both, who are experts in the particular fields represented by the proposal. These reviewers are selected by Program Officers charged with 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
The National Science Foundation strives to invest in a robust and diverse portfolio of projects that creates new knowledge and enables breakthroughs in understanding across all areas of science and engineering research and education. To identify which projects to support, NSF relies on a merit review process that incorporates consideration of both the technical aspects of a proposed project and its potential to contribute more broadly to advancing NSF’s mission “to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense; and for other purposes.” NSF makes every effort to conduct a fair, competitive, transparent merit review process for the selection of projects.

A. Merit Review Principles and Criteria

The National Science Foundation strives to invest in a robust and diverse portfolio of projects that creates new knowledge and enables breakthroughs in understanding across all areas of science and engineering research and education. To identify which projects to support, NSF relies on a merit review process that incorporates consideration of both the technical aspects of a proposed project and its potential to contribute more broadly to advancing NSF’s mission “to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense; and for other purposes.” NSF makes every effort to conduct a fair, competitive, transparent merit review process for the selection of projects.

1. Merit Review Principles

These principles are to be given due diligence by PIs and organizations when preparing proposals and managing projects, by reviewers when reading and evaluating proposals, and by NSF program staff when determining whether or not to recommend proposals for funding and while overseeing awards. Given that NSF is the primary federal agency charged with nurturing and supporting excellence in basic research and education, the following three principles apply:

- All NSF projects should be of the highest quality and have the potential to advance, if not transform, the frontiers of knowledge.
- NSF projects, in the aggregate, should contribute more broadly to achieving societal goals. These "Broader Impacts" may be accomplished through the research itself, through activities that are directly related to specific research projects, or through activities that are supported by, but are complementary to, the project. The project activities may be based on previously established and/or innovative methods and approaches, but in either case must be well justified.
- Meaningful assessment and evaluation of NSF funded projects should be based on appropriate metrics, keeping in mind the likely correlation between the effect of broader impacts and the resources provided to implement projects. If the size of the activity is limited, evaluation of that activity in isolation is not likely to be meaningful. Thus, assessing the effectiveness of these activities may best be done at a higher, more aggregated, level than the individual project.

With respect to the third principle, even if assessment of Broader Impacts outcomes for particular projects is done at an aggregated level, PIs are expected to be accountable for carrying out the activities described in the funded project. Thus, individual projects should include clearly stated goals, specific descriptions of the activities that the PI intends to do, and a plan in place to document the outputs of those activities.

These three merit review principles provide the basis for the merit review criteria, as well as a context within which the users of the criteria can better understand their intent.

2. Merit Review Criteria

All NSF proposals are evaluated through use of the two National Science Board approved merit review criteria. In some instances, however, NSF will employ additional criteria as required to highlight the specific objectives of certain programs and activities.

The two merit review criteria are listed below. Both criteria are to be given full consideration during the review and decision-making processes; each criterion is necessary but neither, by itself, is sufficient. Therefore, proposers must fully address both criteria. (PAPPG Chapter II.C.2.d(i)) contains additional information for use by proposers in development of the Project Description section of the proposal). Reviewers are strongly encouraged to review the criteria, including PAPPG Chapter II.C.2.d(i), prior to the review of a proposal.

When evaluating NSF proposals, reviewers will be asked to consider what the proposers want to do, why they want to do it, how they plan to do it, how they will know if they succeed, and what benefits could accrue if the project is successful. These issues apply both to the technical aspects of the proposal and the way in which the project may make broader contributions. To that end, reviewers will be asked to evaluate all proposals against two criteria:

- Intellectual Merit: The Intellectual Merit criterion encompasses the potential to advance knowledge; and
- Broader Impacts: The Broader Impacts criterion encompasses the potential to benefit society and contribute to the achievement of specific, desired societal outcomes.

The following elements should be considered in the review for both criteria:

1. What is the potential for the proposed activity to
   a. Advance knowledge and understanding within its own field or across different fields (Intellectual Merit); and
   b. Benefit society or advance desired societal outcomes (Broader Impacts)?
2. To what extent do the proposed activities suggest and explore creative, original, or potentially transformative concepts?
3. Is the plan for carrying out the proposed activities well-reasoned, well-organized, and based on a sound rationale? Does the plan incorporate a mechanism to assess success?
**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 evaluate proposals using two National Science Board approved merit review criteria and, if applicable, additional program specific criteria. A summary rating and accompanying narrative will generally be completed and submitted by each reviewer and/or panel. 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 strives to be able to tell applicants whether their proposals have been declined or recommended for funding within six months. Large or particularly complex proposals or proposals from new awardees may require additional review and processing time. The time interval begins on the deadline or target date, or receipt date, whichever is later. The interval ends when the Division Director acts upon the Program Officer’s recommendation.

After programmatic approval has been obtained, the proposals recommended for funding will be forwarded to the Division of Grants and Agreements or the Division of Acquisition and Cooperative Support for review of business, financial, and policy implications. After an administrative review has occurred, Grants and Agreements Officers perform 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 an 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.

Once an award or declination decision has been made, Principal Investigators are provided feedback about their proposals. In all cases, reviews are treated as confidential documents. Verbatim copies of reviews, excluding the names of the reviewers or any reviewer-identifying information, 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.

**VII. AWARD ADMINISTRATION INFORMATION**

**A. Notification of the Award**

Notification of the award is made to the submitting organization by an NSF Grants and Agreements Officer. Organizations whose proposals are declined will be advised as promptly as possible by the cognizant NSF Program administering the program. Verbatim copies of reviews, excluding 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 notice, 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 notice; (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 notice.

Cooperative agreements are also 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 https://www.nsf.gov/awards/managing/award_conditions.jsp?org=NSF. Paper copies may be obtained from the NSF Publications Clearinghouse, telephone (703) 292-8134 or by e-mail from nsfpubs@nsf.gov.


**Administrative and National Policy Requirements**

**Build America, Buy America**

As expressed in Executive Order 14005, Ensuring the Future is Made in All of America by All of America’s Workers (86 FR 7475), it is the policy of the executive branch to use terms and conditions of Federal financial assistance awards to maximize, consistent with law, the use of goods, products, and materials produced...
in, and services offered in, the United States.

Consistent with the requirements of the Build America, Buy America Act (Pub. L. 117-58, Division G, Title IX,Subtitle A, November 15, 2021), no funding made available through this funding opportunity may be obligated for an award unless all iron, steel, manufactured products, and construction materials used in the project are produced in the United States. For additional information, visit NSF’s Build America, Buy America webpage.

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 no later than 90 days prior to the end of the current budget period. (Some programs or awards require submission of more frequent project reports). No later than 120 days following 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 all identified PIs and co-PIs on a given award. 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 Research.gov, for preparation and submission of annual and final project reports. Such reports provide information on accomplishments, project participants (individual and organizational), publications, and other specific products and impacts of the project. Submission of the report via Research.gov constitutes certification by the PI that the contents of the report are accurate and complete. The project outcomes report also 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.


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:

- Mary Paster, Program Director, telephone: (703) 292-2762, email: mpaster@nsf.gov
- Jorge Valdes Kroff, Program Director, W 14253, telephone: (703) 292-7920, email: jvaldesk@nsf.gov
- Kenyatta Johnson, Program Specialist, telephone: (703) 292-4850, email: kenjohns@nsf.gov
- Jacquelyn Clements, Senior Program Officer – NEH, telephone: (703) 606-8475, email: jcléments@neh.gov

For questions related to the use of FastLane or Research.gov, contact:

- FastLane and Research.gov Help Desk: 1-800-673-6188
- FastLane Help Desk e-mail: fastlane@nsf.gov.
- Research.gov Help Desk e-mail: rgov@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, "NSF Update" is an information-delivery system 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 Grants Conferences. Subscribers are informed through e-mail or the user's Web browser each time new publications are issued that match their identified interests. "NSF Update" also is available on NSF's website.

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

ABOUT THE NATIONAL SCIENCE FOUNDATION
The National Science Foundation (NSF) is an independent Federal agency created by the National Science Foundation Act of 1950, as amended (42 USC 1861-75). The Act states the purpose of the NSF is "to promote the progress of science; [and] to advance the national health, prosperity, and welfare by supporting research and education in all fields of science and engineering."

NSF funds research and education in most fields of science and engineering. It does this through grants and cooperative agreements to more than 2,000 colleges, universities, K-12 school systems, businesses, informal science organizations and other research organizations throughout the US. The Foundation accounts for about one-fourth of Federal support to academic institutions for basic 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 (FASED) provide funding for special assistance or equipment to enable persons with disabilities to work on NSF-supported projects. See the NSF Proposal & Award Policies & Procedures Guide Chapter II.E.6 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 https://www.nsf.gov

| Location: | 2415 Eisenhower Avenue, Alexandria, VA 22314 |
| 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) 292-8134 |
| 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 System of Record Notices, NSF-50, “Principal Investigator/Proposal File and Associated Records,” and NSF-51, “Reviewer/Proposal File and Associated Records.” 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 of information 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
Policy Office, Division of Institution and Award Support
Office of Budget, Finance, and Award Management
National Science Foundation
Alexandria, VA 22314