Louis Stokes Alliances for Minority Participation (LSAMP)

PROGRAM SOLICITATION
NSF 17-579

REPLACES DOCUMENT(S):
NSF 15-594

National Science Foundation
Directorate for Education & Human Resources
Division of Human Resource Development

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

November 03, 2017
First Friday in November, Annually Thereafter

November 17, 2017
Third Friday in November, Annually Thereafter

Bridge to the Doctorate (BD) Activity

January 26, 2018
STEM Pathways and Research Alliances

Last Friday in January, Annually Thereafter

Louis Stokes Regional Centers of Excellence in Broadening Participation

November 16, 2018
Third Friday in November, Annually Thereafter

STEM Pathways and Research Alliances

IMPORTANT INFORMATION AND REVISION NOTES

The following project types are described fully in this solicitation and include:

- STEM Pathways Implementation Only Alliance Grants (Only for new alliances and alliances funded less than 10 years)
- STEM Pathways and Research Alliances (Only for alliances funded 10 years or more)
- Bridge to the Baccalaureate (B2B) Alliance Grants (For Community Colleges only)
- Bridge to the Doctorate Activity
- Louis Stokes Regional Centers of Excellence in Broadening Participation (New project type)
- Pre-alliance planning grants
- NSF-DoE-Cooperative Academic/Summer Research Experiences
- Other (EArly-Concept Grants for Exploratory Research, Conferences/Workshops, Dear Colleague Letters)

REVENSIONS TO EXISTING PROJECT TYPES

**STEM Pathways Implementation - Only Alliance Projects** are five-year implementation projects available to new alliances, reconstituted alliances and existing LSAMP alliances with less than 10 years of support for evidence-based interventions that contribute to increases in STEM baccalaureate-degree production to historically underrepresented minority students.

**STEM Pathways and Research Alliance Projects** are five-year implementation and research projects available to existing LSAMP alliances with 10 or more consecutive years of LSAMP funding support. These alliances are required to incorporate a research component fully dedicated to the production of scholarly research in broadening participation.

**Bridges to the Baccalaureate (B2B) proposals** must be submitted by institutions awarding Associate-level (AA) degrees only in a STEM or STEM-related field. Four-year baccalaureate institutions that also award STEM AA or AS degrees are ineligible to serve as
lead institutions for B2B proposals.

Pre-Alliance Planning proposals: The description for this project type is under "Other Types of Proposals or Projects" and provides additional guidance on baseline information required in the proposal.

National Science Foundation-Department of Energy (DoE) Cooperative Academic/Summer Research Laboratory Experiences. Beginning in FY2018, new proposals may include funding for annual NSF-DoE faculty/student research experiences in anticipation of DoE approved individual students or faculty/student teams.

Any proposal submitted in response to this solicitation should be submitted in accordance with the revised NSF Proposal & Award Policies & Procedures Guide (PAPPG) (NSF 18-1), which is effective for proposals submitted, or due, on or after January 29, 2018.

SUMMARY OF PROGRAM REQUIREMENTS

General Information

Program Title:
Louis Stokes Alliances for Minority Participation

Synopsis of Program:
The Louis Stokes Alliances for Minority Participation (LSAMP) program is an alliance-based program. The program’s theory is based on the Tinto model for student retention¹. The overall goal of the program is to assist universities and colleges in diversifying the nation’s science, technology, engineering and mathematics (STEM) workforce by increasing the number of STEM baccalaureate and graduate degrees awarded to populations historically underrepresented in these disciplines: African Americans, Hispanic Americans, American Indians, Alaska Natives, Native Hawaiians, and Native Pacific Islanders.

The LSAMP program takes a comprehensive approach to student development and retention. Particular emphasis is placed on transforming undergraduate STEM education through innovative, evidence-based recruitment and retention strategies, and relevant educational experiences in support of racial and ethnic groups historically underrepresented in STEM disciplines.

The LSAMP program also supports knowledge generation, knowledge utilization, program impact and dissemination type activities. The program seeks new learning and immediate diffusion of scholarly research into the field. Under this program, funding for STEM educational and broadening participation research activities could include research to develop new models in STEM engagement, recruitment and retention practices for all critical pathways to STEM careers or research on interventions such as mentoring, successful learning practices and environments, STEM efficacy studies, and technology use.

Overall, the LSAMP program provides funding to alliances that implement comprehensive, evidence-based, innovative, and sustained strategies that ultimately result in the graduation of well-prepared, highly-qualified students from underrepresented minority groups who pursue graduate studies or careers in STEM.

Project types under this program include:

1. Alliances.
   Alliances are consortia of multiple degree-granting institutions. Organizations from other sectors, including informal science organizations, may be participants. Projects focus on pre-college and undergraduate recruitment and retention activities. Types of LSAMP alliances are described as follows:
   
   A. STEM Pathways Implementation-Only Alliance projects are mainly focused on a particular STEM pathway, e.g., entry into college, first two years, or preparation for entry into graduate studies. Additionally, the project may focus on activities dedicated to diversifying a particular STEM discipline, e.g., production of mathematicians. These projects are targeted to newly-created alliances, reconstituted alliances or alliances that have received support by the program for less than 10 years. Projects are five years in duration.

   B. STEM Pathways and Research Alliances are projects that focus on the full STEM pathway and provide direct support for undergraduate students but also serve as a hub for the production of scholarly STEM research and evaluation to increase the knowledge-base and utilization in broadening participation. Both components must be addressed to be competitive for this project type. These are five-year projects.

   C. Bridge to the Baccalaureate (B2B) Alliances involve associate degree producing institutions for which the lead institution must be a community college. These are three-year projects focused on activities that provide effective educational preparation of community college students from underrepresented minority populations for successful transfer to four-year institutions in STEM degree programs.

2. Bridge to the Doctorate (BD) Activity: BD projects are two-year projects eligible only to existing alliances
funded 10 or more consecutive years. These projects are focused on providing post-baccalaureate fellowship support to a cohort of 12 LSAMP students for the first two years of their STEM graduate studies and providing the necessary academic and research skills that will enable them to successfully earn STEM doctoral degrees and transition into the STEM workforce.

3. Louis Stokes Regional Centers of Excellence in Broadening Participation (LSRCE). These centers can serve as regional outreach and knowledge-diffusion centers of excellence for alliance and non-alliance organizations. LSRCE's are projects that have wide latitude for design with a focus on technical assistance in the broadening participation arena, for example, and are focused on increasing the knowledge base on broadening participation topics through research, evaluation and synthesis activities. Centers do not provide direct degree production interventions or student support activities. The projects may be three or five years in duration depending on the scope of activities.

4. Pre-Alliance Planning: Pre-Alliance planning projects undertake planning activities necessary to form new alliances. Recipients of pre-alliance planning grants must commit to submission of an alliance or center proposal following the planning period. Projects are up to 18 months in duration.

5. Conferences and other supplemental funding opportunities are supported for existing LSAMP alliances or LSAMP institutions. Examples include the NSF-Department of Energy collaboration to provide cutting-edge research experiences to students and faculty participants. These opportunities also may be announced under Dear Colleague Letters. Conference proposals may be submitted under NSF's general proposal guidelines as unsolicited proposals.


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.

- LSAMP Program Team, telephone: (703) 292-8640, fax: (703) 292-9018, email: LSAMP_national@nsf.gov
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Applicable Catalog of Federal Domestic Assistance (CFDA) Number(s):

- 47.076 --- Education and Human Resources

**Award Information**

Anticipated Type of Award: Standard Grant or Continuing Grant

Estimated Number of Awards: 25 to 40

Up to 40 new awards from all funding tracks annually. Award sizes and durations vary for the different LSAMP award types.

Anticipated Funding Amount: $22,300,000

Annually for new awards from all LSAMP funding opportunities.

Approximately $22.3 million annually, pending availability of funds, for new awards to support LSAMP funding opportunities in this solicitation.

**Eligibility Information**

Who May Submit Proposals:

Proposals may only be submitted by the following:

- The following may submit as lead and partner organization for all project types:
  - 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.

- The following may submit as lead or collaborating organization for the Lewis Stokes Regional Centers of Excellence in Broadening Participation project type:
  - 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.
  - Non-profit, non-academic organizations: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities.
  - For-profit organizations: U.S. commercial organizations, especially small businesses with strong capabilities in
Who May Serve as PI:

The Principal Investigator (PI) for Alliances (including Bridge to the Baccalaureate) should be the President, Chancellor, or Provost of the lead institution and member of the alliance governing board. A full justification is needed for a PI designation at variance with this requirement. Co-principal investigators (Co-PIs) from partner institutions may be designated for the project.

For STEM Pathways and Research Alliances one or more of the Co-PIs must be a social or data scientist, disciplinary/interdisciplinary education researcher or evaluator.

The Principal Investigator for Bridge to the Doctorate (BD) proposals should be the President, Chancellor, or Provost of the BD site and member of the alliance governing board. Co-PIs may be members of the institution's graduate leadership team or STEM faculty. A full justification is needed for a PI /Co-PI designation at variance with this requirement.

The Principal Investigator for Louis Stokes Regional Center of Excellence in Broadening Participation proposals must be a senior organizational administrator. Project managers and STEM faculty members may be among the PI/Co-PI team. The PI/Co-PI team must also include a social or data scientist, disciplinary/interdisciplinary education researcher or evaluator.

The Principal Investigator for Pre-Alliance Planning proposals should be the key personnel that will be responsible for organizing and implementing the planning activities. Institutional leadership support must be demonstrated by the participating institutions.

Limit on Number of Proposals per Organization:

Alliances: Only one proposal may be submitted by an eligible (lead) institution. Alliances may hold only one active alliance award at a time. Institutions partnering in an alliance may not be a formal partner in more than one alliance at the same time. This eligibility applies to proposals for STEM Pathways Implementation-Only Alliances, Bridge to the Baccalaureate Alliances, and Louis Stokes STEM Pathways and Research Alliances.

Bridge to the Doctorate (BD) Activity: One proposal for BD support may be submitted annually by an eligible alliance institution. Beginning in FY2018, an institution may have only one active BD award. New proposals for additional cohorts may be submitted in the competition closest to the active BD award's expiration date.

Louis Stokes Regional Centers of Excellence in Broadening Participation (LSRCE): One proposal may be submitted by eligible lead institutions/organizations annually. Organizations may have only one active center award. All active alliances are eligible to submit LSRCE proposals as lead organizations.

Pre-Alliance Planning: Only one proposal may be submitted by an eligible institution.

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

Alliances: New, existing and pre-alliance planning: 1

Bridges to the Doctorate (BD) Activity: 1

Louis Stokes Regional Centers of Excellence in Broadening Participation: No limit

Proposal Preparation and Submission Instructions

A. Proposal Preparation Instructions

- Letters of Intent: Not required
- Preliminary Proposal Submission: Not required
- Full Proposals:

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 Deadline(s) (due by 5 p.m. submitter’s local time):
November 03, 2017
First Friday in November, Annually Thereafter
Bridge to the Doctorate (BD) Activity

November 17, 2017
Third Friday in November, Annually Thereafter
New and Renewal LSAMP Pre-Alliance Planning, Bridge to the Baccalaureate (B2B), STEM Pathways Implementation-Only Projects

January 26, 2018
STEM Pathways and Research Alliances

January 26, 2018
Last Friday in January, Annually Thereafter
Louis Stokes Regional Centers of Excellence in Broadening Participation

November 16, 2018
Third Friday in November, Annually Thereafter
STEM Pathways and Research Alliances

**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:**
Additional award conditions apply. Please see the full text of this solicitation for further information.

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

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I. INTRODUCTION

Louis Stokes Alliances for Minority Participation (LSAMP) is a program in the Division of Human Resource Development (HRD), within the Directorate for Education and Human Resources (EHR) at the National Science Foundation (NSF). LSAMP was authorized by Congress and established in 1991 to help diversify the science, technology, engineering and mathematics (STEM) workforce by funding institutions of higher education through a collective plan of action to implement evidence-based strategies for recruitment and retention to STEM degree for students historically underrepresented in these disciplines.

The LSAMP program priorities are to (a) increase individual student engagement, retention and progression to baccalaureate degrees for underrepresented racial and ethnic groups, (b) enable successful transfer of underrepresented students from two-year to four-year institutions in STEM programs (c) increase access to high quality STEM mentoring and undergraduate and graduate research experiences, (d) facilitate seamless transition of underrepresented minority students into STEM graduate programs and degree completion and (e) stimulate new research and learning on broadening participation in STEM disciplines.

II. PROGRAM DESCRIPTION

The Louis Stokes Alliances for Minority Participation (LSAMP) program invests in the nation's colleges and universities to aid student success at all STEM pathways thereby creating a new generation of STEM discoverers for the STEM enterprise nationally and internationally.

The overall goal of the LSAMP program is to help diversify the nation's STEM workforce by funding institutions of higher education to implement comprehensive, evidence-based, and sustained approaches to broadening the participation of students historically underrepresented in STEM disciplines (African Americans, Hispanic Americans, American Indians or Alaska Natives, Native Hawaiians or Other Pacific Islanders) primarily at the undergraduate (including community college) and post baccalaureate levels. These approaches facilitate the successful production of highly capable and diverse STEM talent.

The program also supports the production of scholarly research and dissemination activities on the topic of broadening participation in STEM. Wide latitude is provided in designing research activities that provide new scholarly educational research in this area, including evaluation research for culturally-relevant approaches to student success at critical pathways.

The program allows grantees to provide performance-based stipend support to participants. However, the program is not a financial aid scholarship program. Funds should not be used for this purpose.

Funds are provided to institutions and organizations only. Participants receiving direct stipend support must be U. S. citizens, U. S. nationals or permanent residents of the United States.

Support for appropriate high school level STEM activities are allowable under the LSAMP program. Collaborations with organizations and projects at the K-12 level are highly encouraged for all alliance projects to leverage resources.

A full description of LSAMP funding opportunities and proposal requirements follows:

1. ALLIANCES

A. STEM Pathways Implementation-Only Alliances
   (For New and Reconstituted Alliances and Alliances in existence for 10 consecutive years or less)

Alliances may consist of different institutional types and are funded to implement comprehensive evidence-based strategies that ultimately result in the graduation of well-prepared, highly-qualified students from historically underrepresented minority groups in STEM disciplines who pursue graduate studies or careers in these fields.

Alliance Structure: Alliances may have partner institutions drawn from among four-year institutions, community colleges, school systems, Federal/state/local government agencies, major national laboratories and centers, industry, private foundations, and professional STEM organizations. All alliance proposals must provide a rationale for the inclusion of the different institutional partners and describe a cohesive structure. Specifically, the proposal should describe how the alliance will leverage the strengths of each institutional partner and the unique contributions of each partner to the project.

- Institutions partnering in an alliance may not be a formal partner in more than one alliance.
- Institutional partners (including community colleges and B2B alliance partners) must be budgeted as subawardees if not the lead institution of an alliance.

Proposer/Proposal Expectations: All proposers must commit to a significant increase in baccalaureate production in STEM fields within a five-year award period and justify the level of increase they define as significant. Data must be
expressed and shown in numbers and percentages. A clear plan of action to significantly increase baccalaureate STEM degrees awarded to racial/ethnic students historically underrepresented in STEM at individual four-year institutions is essential for a competitive proposal. Subsequent support will be contingent on evidence of success in areas of individual student recruitment, retention and progression to STEM baccalaureate degrees.

Allowable Activities: The NSF LSAMP program provides wide latitude to proposers in designing their alliance activities. Proposed activities should be grounded in evidence-based practices and sound programmatic approaches that are clear and well-defined with measurable goals and objectives. Proposed alliance activities must form a feasible, logical, and comprehensive effort focused on improving undergraduate STEM educational experiences for historically underrepresented minority students. While the 2006 evaluation report by the Urban Institute references the research and theoretical basis of the LSAMP program and describes the elements of the “LSAMP model”, proposers are not limited to this program theory as the basis for proposed implementation activities. Proposers are encouraged to submit proposals that are innovative which may require risk and experimentation to enable new discovery.

Alliance projects must place emphasis on developing strategies for: a) individual student retention and progression to baccalaureate degrees, b) successful transfer of underrepresented students from two-year to four-year institutions in STEM programs c); high quality undergraduate research experiences for alliance students, and d) seamless transition of students into STEM graduate programs.

Alliance proposals are required to describe in detail the comprehensive plan that will be implemented both alliance-wide and in the individual institutions. The plan could focus on innovative strategies for recruitment and retention of freshman and sophomore students in STEM disciplines, interventions for retention of upper level STEM majors, academic enrichment activities, professional development or graduate school preparation activities, and/or undergraduate research experiences both domestic and abroad. Preparing a diverse, globally-engaged scientific and technological workforce necessitates strengthening international research opportunities for students underrepresented in STEM. Alliances are encouraged to develop a plan to engage STEM students in international research opportunities. These international opportunities must reach beyond conference attendance and cultural experiences to be considered a strong aspect of an alliance proposal.

Competitive proposals will describe the level of faculty involvement and list the names of faculty who will serve as research mentors, clearly demonstrate linkages with NSF-funded or other federally-funded student support programs, and provide evidence of strong articulation agreements with community colleges both within the alliance and outside of the evidence. Evidence of linkages must be provided through letters of collaboration. All proposals must include institutional baseline data for each STEM discipline: enrollment, transfer, graduation rates, matriculation into and completion of graduate programs for the targeted groups of students underrepresented in STEM.

Rigorous evaluation of projects is a high priority for the LSAMP program. Therefore, all LSAMP proposals should develop an evaluation plan that is based on benchmarks, indicators, or expected outcomes related to project goals and activities. Evaluation plans should be appropriate to the scope of the project and include a logic model or other tool that connects the project goals to the specific activities, and outputs, as well as the outcomes.

Project evaluations for LSAMP alliance proposals should provide clear benchmarks and indicators of progress that will inform reviewers of the proposers’ understanding of essential recruitment and retention factors for judging accountability, both quantitative (enrollment and baccalaureate degree production of underrepresented groups) and qualitative (the process of change in organizational culture, impact and progress in developing highly competitive, well-prepared diverse STEM students). Formative and summative evaluations should include holistic assessments of the collaboration/partnership in addition to evaluation of the individual interventions.

The evaluator should be external to the project and named in the Project Description. Proposals should: (1) describe the expertise of the evaluator(s); (2) explain how that expertise relates to the goals and objectives of the proposal; and (3) specify how the PI will support and use results of the evaluation(s) of the external evaluator or team should be uploaded as a supplementary document. Evaluators are expected to adhere to the American Evaluation Association's Guiding Principles for Evaluators (http://www.eval.org/p/cm/dfid=51), and project evaluations are expected to be consistent with standards established by the Joint Committee on Standards for Educational Evaluation (http://www.jces.org/program-evaluation-standards-statements).

Proposers are encouraged to collaborate with institutions with active awards from programs in NSF’s Division of Undergraduate Education (DUE); specifically, IUSE (Improving Undergraduate STEM Education), S-STEM (NSF Scholarships in Science, Technology, Engineering, and Mathematics), or ATE (Advanced Technological Education). These programs provide STEM scholarships and support to increase institutional capacity through faculty and curriculum development, which could complement proposed LSAMP activities. For details on DUE, visit https://www.nsf.gov/divindex.jsp?org=DUE.

New alliances: Proposals for new alliances should include beginning plans for institutionalization and program sustainability beyond NSF funding. Expectations are placed on institutionalizing, disseminating, and promoting the replication of strategies and collaborative approaches that have been effective in the recruitment and retention of racial/ethnic students historically underrepresented in STEM as well as the successful transition of undergraduate STEM students into graduate STEM programs. Proposals must indicate past institutional successes e.g., efforts at transforming the academic and/or research environment, in producing highly competitive underrepresented students in STEM disciplines.

Existing Alliances Funded 10 Consecutive Years or Less: Alliances that have received previous LSAMP support must address the institutionalization and sustainability of LSAMP-supported activities by stating the progress that has been made towards sustainability, detailing the components that have been institutionalized, and describing any systemic changes in STEM departments or alliance institutions that have resulted from the NSF LSAMP investment.

Highly competitive proposals must demonstrate creative thinking, strategies, pedagogies and partnerships to maximize opportunities in preparing students for 21st Century STEM careers and addressing present challenges in
diversifying the STEM workforce.

New or reconstituted alliances submitting proposals for this project type should begin the title of the proposal with the following:

Louis Stokes New STEM Pathways Implementation-Only Alliance:

Existing alliances submitting proposals for this project type should begin the title of the proposal with the following:

Louis Stokes STEM Pathways Implementation-Only Alliance:

B. STEM Pathways and Research Alliances
(For Existing Alliances Funded 10 or More Consecutive Years Only)

Proposers should refer to the section above on alliance expectations. The STEM Pathways and Research Alliances address the continuing production of highly competitive STEM students at the undergraduate level leading to increases in STEM baccalaureate degrees from underrepresented minority populations and entry into graduate school and address the national need for production and dissemination of new scholarly research on broadening participation of racial/ethnic minorities in STEM disciplines and the nation’s STEM workforce. The primary purpose of the research component is to disseminate to the nation new learning from educational research activities and the impact of highly successful STEM educational interventions that contribute to the national impact of increasing diversity in the STEM enterprise.

Proposers for these projects are required to include an innovative knowledge-generating research/evaluation component that rigorously investigates effective practices or innovations in STEM education. The research may be related to the proposed alliance strategies for recruiting, retaining, and graduating minority students historically underrepresented in STEM or can be research on any topic of broadening participation, including institutional transformation, regional approaches, science of broadening participation, and persistence in STEM. Results and recommendations from these activities must be disseminated broadly; therefore, creativity in developing and implementing the dissemination plan is expected.

Activities may include focused strategies to improve and support the transition to graduate school in disciplinary areas such as mathematical sciences. Proposals that provide access to successful STEM recruitment, engagement and retention activities in informal science education or STEM institutes to address increased proficiencies in mathematical competencies, for example are acceptable.

Suggested research topics for STEM Pathways and Research Alliances may include research on STEM mentoring in different organization types and contexts, including informal science organizations, organizational studies in the context of STEM success, comparative analyses, disciplinary studies, etc. Guiding questions for the research component could include the following:

- What are the underlying issues affecting the differential participation and graduation rates in STEM undergraduate education of students historically underrepresented in STEM?
- What replicable models of successful alliance strategies can be developed, described and adopted by other non-alliance institutions that serve students from historically underrepresented populations?
- Why are certain components of the models more effective in different institutional or regional contexts?
- What are the different methods and why are certain ones more effective for increasing the capacity of alliance institutions to produce more well-qualified STEM graduates who matriculate into STEM graduate programs or enter the workforce?
- How does the engagement of discipline-specific undergraduate research affect retention of students from underrepresented populations in STEM?
- To what extent, if any, do students' demographic/background characteristics (e.g., gender, ethnicity, socio-economic status and high school GPA) and students' contextual and environmental characteristics (e.g., academic integration, and institutional selectivity) affect their STEM persistence and degree completion status?
- Controlling for demographic and background characteristics and students' contextual and environmental characteristics, to what extent do individuals' non-cognitive attributes (i.e., self-efficacy, outcome expectations, and STEM interest and identity) contribute to STEM persistence and degree completion status?

A highly qualified team of experts in social science research, STEM education research and/or evaluation, suitable for implementing the research plan, must be articulated in the proposal. It is expected that over the five-year duration of the project, a number of quick-turnaround mini-studies will be produced and disseminated broadly in conjunction with larger, more rigorous studies. Highly competitive proposals will address new and innovative topics and will provide evidence of collaborations with other intramural or extramural STEM funded programs/personnel within the alliance. Such programs could include NSF INCLUDES, Historically Black Colleges and Universities-Undergraduate Program (HBCU-UP), projects within NSF’s Divisions of Undergraduate and Graduate Education programs, Science and Technology Centers or other STEM center-funded programs.

Up to 20 pages may be used to develop the project description. Up to 20 percent of the cumulative budget may be allocated to the knowledge generation in broadening participation and project evaluation components. The budget justification should include a summary cost allocation for these components.

The National Science Foundation and the Institute of Education Sciences in the U.S. Department of Education developed Common Guidelines for Education Research and Development. The Guidelines describe six types of research studies that can generate evidence about how to increase student learning. For each research type, there is a description of the purpose and the expected empirical and/or theoretical justifications, types of project outcomes, and quality of evidence.

The Guidelines publication can be found on the NSF website with the number NSF 13-126. A set of FAQs regarding the Guidelines are available with the number NSF 13-127. Grant proposal writers and PIs are encouraged to familiarize themselves with both documents and use the information therein in the preparation of educational
Alliances submitting proposals for this project type should begin the title of the proposal with the following: Louis Stokes STEM Pathways and Research Alliance: (Name of Alliance).

C. Bridge to the Baccalaureate (B2B) (For Community Colleges Only)

Community colleges are a valuable resource that contributes to the diversity of the STEM workforce. The Bridge to the Baccalaureate (B2B) alliances are partnerships of community colleges funded up to three years to develop comprehensive programs that facilitate the successful transfer of students historically underrepresented in STEM to four-year institutions in pursuit of STEM baccalaureate degrees.

B2B Alliance Structure: B2B Alliances are composed entirely of two-year colleges. The lead institution must award associate-level degrees in a STEM or STEM-related field. Associate-level degree-granting colleges that award four-year degrees in workforce development areas may be eligible to serve as the lead institution of a B2B alliance. Four-year colleges that award STEM baccalaureate degrees are ineligible to serve as lead institutions for B2B alliances but may be included as partner institutions of the alliances for articulation purposes. Funds are not budgeted for four-year institutions in B2B projects.

B2B alliances should focus on innovative, evidence-based recruitment and retention strategies at the community college level with particular emphasis on strengthening STEM skills at the pre-college, freshman and sophomore levels in STEM disciplines.

Expectations of B2B Alliances: The NSF LSAMP program provides wide latitude to proposers in designing their projects. Community college strategies, components, and interventions aimed at strengthening the transfer to four-year STEM degree programs are supported through these alliances. Proposers for B2B support must present evidence of strong articulation and transfer agreements with four-year institutions. All new proposers must commit to a significant increase in student transfer into STEM fields at four-year institutions and justify the level of increase they define as significant. A clear plan of action to significantly increase the transfer of students historically underrepresented in STEM that is supported by data and tracking student outcomes is essential for a highly competitive proposal. Subsequent support will be contingent on evidence of success in areas of individual student recruitment, retention, and progression to four-year STEM degree programs.

All B2B proposal requests for funding must describe plans for tracking student progress over the course of funding and post-award. Because the LSAMP program is focused on baccalaureate degree attainment, B2B projects must track the number of community college students who successfully transfer into STEM programs at four-year institutions. Non-funded formal partnerships with four-year institutions are strongly encouraged. Letters of collaboration with partner academic institutions or other entities must be included as supplementary documents.

Community college partners must be budgeted as subawardees if not the lead institution for the B2B alliance.

Institutions submitting new proposals for this project type should begin the title of the proposal with the following: Louis Stokes B2B Alliance: (Name of Alliance).

2. Bridge to the Doctorate (BD) Activity (For Participating LSAMP Institutions Funded 10 Consecutive Years or More)

This project type provides financial support to a critical mass of twelve STEM baccalaureate-degree recipients who were active, certified participants in LSAMP programs as undergraduates. BD participants are funded for the first two years of their graduate studies in STEM. All students receiving LSAMP-BD fellowships must be U.S. citizens, U.S. nationals, or permanent residents of the United States.

Expectations of BD Programs: The ultimate goal of the LSAMP-BD program is to prepare historically underrepresented minority students for completion of STEM doctoral degree programs. At the post-baccalaureate level, BD sites provide necessary academic and research skills that enable participants to successfully persist in STEM graduate degree programs.

LSAMP-BD sites are required to recruit a cohort of twelve LSAMP students from LSAMP institutions. Recruitment of participants is expected from all STEM disciplines. The recruitment plan must demonstrate national efforts to obtain BD-eligible participants.

While proposals for BD support may be submitted from the selected institution and separately from the alliance lead institution, the submitted proposal must indicate the decision-making process for selection of the BD site and include evidence of alliance supported activities in the project description. The status of all cohorts that previously received BD support within the alliance must be included in the supplementary documentation section of BD proposals.

BD proposals must describe the evidence-based recruitment and retention strategies in STEM graduate education that will be implemented. These strategies must be based on current research for attracting, retaining, educating, and graduating underrepresented minority graduate students. In the proposal, the recruitment plans and selection process of BD participants must be clearly stated as well as the requirements for STEM degree completion.

Proposals may include a one-page mentoring plan in the supplementary documentation section of the proposal for participants that indicates how graduate students will be paired with research mentors and describes any training that would be provided to the research mentors and BD participants. Highly competitive proposals will provide evidence of linkages to innovative and cutting edge national and international research activities during the period of support.

Where applicable, proposers are required to provide documentation of past performance at the designated graduate institutional host site of retaining and placing significant numbers of LSAMP graduates into STEM Ph.D. programs. A plan for formally connecting a significant number of newly matriculated LSAMP students to STEM doctoral degree programs is expected. BD programs are expected to place emphasis on designing structured student support strategies that enable
students to develop competitive applications for Graduate Research Fellowships and admission into other STEM graduate programs.

BD proposals should include an action plan that describes the level and type of institutional commitment that will be available for supporting BD participants after two years of NSF funding. The plan should include sources and dollar amounts of support for continuing students in years three and beyond towards doctorate degrees. BD programs are encouraged to partner with other NSF-funded programs, such as Centers of Research Excellence in Science and Technology (CREST), NSF research centers or Alliances for Graduate Education and the Professoriate (AGEP), or other intra- or extramural funding which could provide support for graduate students. The process for tracking project participants that enter STEM graduate programs must be described in the proposal.

First time BD sites must describe, within the rationale for funding, the institution's performance or current efforts in diversifying the STEM graduate culture at the institution. Graduate STEM enrollment and STEM degree production data and analysis must be included in the project description for a five-year period.

Proposals must include a section on lessons learned and/or results from formative assessments or evaluations undertaken that inform new interventions and demonstrate transformation in the institution's recruitment and retention practices for graduate students from historically underrepresented minority populations. Evidence-based practices must be demonstrated in the activities proposed.

BD proposals must include a rigorous project or program evaluation plan and robust dissemination.

Successful proposers in a BD competition may not submit consecutive proposals to a competition. Awards must be near expiration for eligibility to compete in a subsequent competition.

Budget Guidelines: The maximum request per eligible alliance for BD support is $1,075,000 for 24 months. All support costs for BD students should be listed on Line F, "Participant Support," of budget.

- Graduate student stipends should be shown in the amount of $32,000 per year for two years for each of the twelve students.
- NSF will provide a cost-of-education allowance to the institution for tuition, health insurance, and other normal fees up to $12,000 per year for up to two years for each of the twelve students.
- Additional funds, up to $19,000 total, may be requested. Ideally, these funds may be used for support of required PI meeting attendance, evaluation activities and/or related indirect costs.
- Salary support for administrative personnel is not allowable under this project type.

Institutions submitting proposals for this project type should begin the title of the proposal with the following: LSAMP BD: (Site Name Followed By Name of Alliance).

3. LOUIS STOKES REGIONAL CENTERS OF EXCELLENCE IN BROADENING PARTICIPATION

The LSAMP program plans to support up to three Louis Stokes Regional Centers of Excellence in Broadening Participation annually with durations of three or five years. Proposers are provided wide latitude in designing the activities of the centers. Centers may serve as regional testbeds for outreach, knowledge-diffusion activities or other practices that contribute to successful practices in STEM education.

This project type was first introduced in 2011 and is being reintroduced to increase the number of Louis Stokes Regional Centers of Excellence in Broadening Participation projects around the country. This project type is open to any consortium of institutions. LSAMP institutions, non-LSAMP institutions and other organizational types with expertise in broadening participation in STEM fields are eligible to submit as lead institutions.

The mission of the Centers is to serve as exemplar sites in innovative STEM learning, research collaboration, interface and leveraging of resources to advance STEM education and broadening participation, particularly for students underrepresented and underserved in STEM disciplines. Activities may also be concentrated in the development of disciplinary research institutes, such as mathematical summer institutes, regional centers for student or faculty STEM mentoring or development, dissemination and/or outreach, including regional and state-wide activities involving STEM mentoring, mentoring of new alliances, or outreach to non-LSAMP institutions in broadening participation in STEM disciplines.

An intended result from the research activities is to help inform the public, LSAMP community and NSF about effective broadening participation research and promising practices in science, technology, engineering and mathematics (STEM) education. Center proposals are not intended to serve as resources for additional student support for existing LSAMP projects. Student support is minimal. Proposals may request up to 5% of the annual budget for direct student support.

In developing components for the Center, proposers should consider the following broadening participation activities:

- providing opportunities for the exchange of practical, theory-based information and ideas through the convening of conferences, teleconferences, institutes, and workshops;
- publishing monographs, contributing to peer-reviewed journals;
- developing electronic newsletters, guides, books;
- generating and supporting research and scholarship;
- mentoring or technical assistance in implementing research and evaluation activities to LSAMP institutions or mentoring and outreach to non-LSAMP institutions on broadening participation topics;
- hosting visiting scholars; and,
- developing resource centers and/or administering a website and listserves on broadening participation topics.

Particular emphases for the Centers are on comprehensive recruitment and retention practices at each STEM pathway, particularly in disciplines with low numbers of racial and ethnic underrepresentation, such as the mathematical sciences, physical sciences and geosciences. Evidence-based, culturally relevant practices should be considered as part of proposed Center activities.
Centers led by academic institutions are required to build partnerships with at least one research organization, Science & Technology (S&T) center, national laboratory, industry, private foundation, or professional STEM society/organization that can contribute to evidence-based results in STEM education and/or has the capability to provide high quality research experiences for K-12, undergraduate and graduate students as well as faculty. Ideally, the partnership should consist of majority- and minority-serving institutions, including community colleges. Consortia of LSAMP-funded community colleges with demonstrated evidence of successful transfer of students to four-year STEM degree programs are encouraged to apply for Center funding.

In addition to collaborations with subawardees, collaborative (linked) proposals of up to five (5) partnering institutions will be accepted to accomplish the mission of the Centers. Requested dollar amounts for each linked proposal must be at or above $100,000. Minority-serving institutions, (Historically Black Colleges and Universities, Hispanic-serving colleges and universities, tribal colleges and universities) are encouraged to submit as lead participants as well as non-academic institutions and informal science organizations.

Partner institutions may be non-academic organizations such as professional societies, laboratories, or informal science education organizations.

LSRCE proposed budgets should include support for rigorous evaluation and yearly travel to NSF grantee meetings in the Washington, DC metropolitan area (or other designated locality) over the duration of the award.

The "Center/Research Infrastructure" type of proposal should be selected in the proposal preparation module in FastLane or Grants.gov.

Institutions submitting proposals for this project type should begin the title of the proposal with the following: Louis Stokes Regional Center of Excellence:

4. OTHER TYPES OF PROPOSALS OR PROJECTS

Pre-alliance and other Planning Grants

Pre-alliance proposals must be submitted under the due dates for this solicitation only.

To increase the number of alliances around the country, the pre-alliance opportunity is available for institutions seeking alliance funding, including B2B alliances, to address the goals of the LSAMP program. Institutions that have considered forming an alliance, begun compiling enrollment and degree data to assess the feasibility of forming an alliance, and garnered support from administrators and STEM faculty, are highly encouraged to seek pre-alliance support.

Funding may be used to conduct needs assessments, conduct organizational planning meetings, attend broadening participation planning meetings/conferences, etc. The planning proposal must demonstrate, at a minimum, the above efforts. If awarded pre-alliance support, NSF expects that a full alliance proposal will be submitted to the LSAMP program at the end of the planning period.

Funds are not allowed under this project type for student support or to begin STEM recruitment and retention intervention programs.

Prospective PIs are encouraged to contact LSAMP program officers to discuss pre-alliance planning activities.

National Science Foundation-Department of Energy (NSF-DoE) Cooperative Activity

In FY2018, new proposals for alliance support may include funding for annual NSF-DoE faculty/student research experiences in anticipation of approved individual students or faculty/student teams being accepted resulting from the annual application process. Institutions are responsible for documentation related to faculty/student acceptances and funding for audit purposes. Proposal budgets must specifically identify costs for the NSF-DoE Cooperative Activity in the annual and cumulative budget justifications.

Requests for Supplemental Funding for the NSF-DoE Activity: Supplemental funding requests will be accepted. The national laboratories will provide the stipend, housing and subsistence costs with approvals for laboratory research experiences for LSAMP participants. Faculty costs for stipends, housing and travel may only be shown in "direct cost" categories in the budget with the appropriate indirect cost (IDC) calculation. NSF will support full faculty stipends as designated by the laboratory, as well as fringe benefits and associated IDCs.

Alliances may also request reallocation of funds in active awards to support NSF/DoE summer research experiences.

Proposers should reference the Department of Energy’s website for application information and programs offered annually.

EArly-Concept Grants for Exploratory Research (EAGER) Proposals

EAGER proposals are used to support exploratory work in its early stages of untested, but potentially transformative, research ideas or approaches. This work may be considered especially “high risk-high payoff” in the sense that it, for example, involves radically different approaches, applies new expertise, or engages novel disciplinary or interdisciplinary perspectives. EAGER proposals may be submitted to address the LSAMP program’s interest in building knowledge around broadening participation in STEM. Ideas for EAGER submissions should be discussed with a NSF program officer prior to submission. These proposals may be submitted at any time in accordance with the guidance in Chapter II.E.2 of the NSF PAPPG.

Conference Proposals

Proposals for conferences/workshops may be submitted at any time during the year, but the proposers should plan on at least 10 months lead time to allow for review and processing of the proposal. The proposal should include a rationale for organizing the conference, a draft agenda, a list of invitees, the outcomes or products that will result from the conference/workshop, and how these outcomes serve the goals of the LSAMP program. Budgets for conference proposals are expected to be commensurate with the duration of the event and the number of participants, but the cost should not exceed a total of...
$150,000 per event. STEM-related professional societies, non-profit organizations, or institutions in well-established alliances interested in organizing technical assistance workshops are encouraged to apply. The LSAMP program is particularly interested in workshops that bring together experts in STEM education and broadening participation research to discuss emerging trends/practices and how they could be used to address current issues and needs. Prospective PIs are advised to contact an LSAMP program officer to discuss ideas for the conference/workshop prior to submission. These proposals may be submitted at any time in accordance with the guidance in Chapter II.E.7 of the NSF PAPPG.

Dear Colleague Letters (DCLs) may be issued to inform the community about upcoming opportunities or special competitions for supplements to existing awards.

**III. AWARD INFORMATION**

The number and size of awards will vary depending upon the scope of projects and availability of funds. Approximately $40.67 million is expected to be available annually for new and existing awards.

*ESTIMATED PROGRAM BUDGET AND NUMBER OF AWARDS IS SUBJECT TO THE AVAILABILITY OF FUNDS.*

Proposed budgets for all funding opportunities, except pre-alliance planning proposals, should include support for rigorous evaluation. Pre-alliance proposal budgets must include support for assessment activities.

All alliance and LSRCE proposals, including BD proposals, must include travel for the PI or Co-PI to participate in required annual NSF grantee meetings in the Washington, DC metropolitan area (or other designated locality) over the duration of the project.

Guidelines for budget development for STEM Pathways Implementation-Only Proposals
(NEW AND RENEWAL)

- Up to $900,000 per year for alliances that award 500 or more STEM baccalaureate degrees to traditionally underrepresented minority students annually;
- Up to $750,000 per year for alliances that award between 300 and 500 STEM baccalaureate degrees to traditionally underrepresented minority students annually;
- Up to $600,000 per year for alliances that award fewer than 300 STEM baccalaureate degrees to traditionally underrepresented minority students annually.

Guidelines for budget development for STEM Pathways and Research Alliance Proposals

- Up to $800,000 per year for alliances that award 500 or more STEM baccalaureate degrees to traditionally underrepresented minority students annually;
- Up to $700,000 per year for alliances that award between 300 and 500 STEM baccalaureate degrees to traditionally underrepresented minority students annually;
- Up to $500,000 per year for alliances that award fewer than 300 STEM baccalaureate degrees to traditionally underrepresented minority students annually.

**SUMMARY OF LSAMP FUNDING OPPORTUNITIES, AWARD AMOUNTS, DURATIONS AND AWARD TYPES**

**STEM Pathways Implementation-Only Alliance Awards**
(For new and existing alliances in existence for 10 years or less)

Number of awards: Up to 5 annually
- Project Length: 5 Years
- *Award size: Up to $4.5M
- Grant Administration: New alliances will be managed by NSF as continuing grants

*Refer to URM STEM B. S. production guidelines for maximum budget requests

**STEM Pathways and Research Alliances**
(For alliances in existence 10 years or more)

Number of awards: Up to 5
- Project Length: 5 Years
- *Award size: Up to $4.0M
- Grant Administration: These projects will be managed by NSF as continuing grants

*Refer to URM STEM B. S. production guidelines for maximum budget requests

**Bridge to the Baccalaureate (B2B)**

Number of awards: Up to 5 annually
- Project Length: 3 Years
- Award size: Up to $1.5M
- Grant Administration: B2B Awards will be managed by NSF as standard grants

**Bridge to the Doctorate Activity (BD)**
Number of awards: Up to 15 annually

- Project Length: 2 Years
- Award size: Up to $1,075,000 (Per student: $64,000 stipend, $12,000 tuition & fees); $19,000 (in lieu of indirect costs)
- Grant Administration: BD Awards will be managed by NSF as standard grants

Louis Stokes Regional Centers of Excellence in Broadening Participation

Number of awards: Up to 3 annually

- Project Lengths: 3 years or 5 years
- Award size: Up to $1.5M over 3 years or up to $2.5M over 5 years
- Grant Administration: Center awards will be managed by NSF as continuing or standard grants.

Pre-Alliance Planning Awards

Number of awards: Up to 5 annually

- Project Length: 18 months
- Award size: Up to $125,000
- Grant Administration: Pre-award alliances will be managed by NSF as standard grants

IV. ELIGIBILITY INFORMATION

Who May Submit Proposals:

Proposals may only be submitted by the following:

- The following may submit as lead and partner organization for all project types:
  - 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.

- The following may submit as lead or collaborating organization for the Lewis Stokes Regional Centers of Excellence in Broadening Participation project type:
  - 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.
  - Non-profit, non-academic organizations: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities.
  - For-profit organizations: U.S. commercial organizations, especially small businesses with strong capabilities in scientific or engineering research or education.

Who May Serve as PI:

The Principal Investigator (PI) for Alliances (including Bridge to the Baccalaureate) should be the President, Chancellor, or Provost of the lead institution and member of the alliance governing board. A full justification is needed for a PI designation at variance with this requirement. Co-principal investigators (Co-PIs) from partner institutions may be designated for the project.

For STEM Pathways and Research Alliances one or more of the Co-PIs must be a social or data scientist, disciplinary/interdisciplinary education researcher or evaluator.

The Principal Investigator for Bridge to the Doctorate (BD) proposals should be the President, Chancellor, or Provost of the BD site and member of the alliance governing board. Co-PIs may be members of the institution's graduate leadership team or STEM faculty. A full justification is needed for a PI /Co-PI designation at variance with this requirement.

The Principal Investigator for Louis Stokes Regional Center of Excellence in Broadening Participation proposals must be a senior organizational administrator. Project managers and STEM faculty members may be among the PI/Co-PI team. The PI/Co-PI team must also include a social or data scientist, disciplinary/interdisciplinary education researcher or evaluator.

The Principal Investigator for Pre-Alliance Planning proposals should be the key personnel that will be responsible for organizing and implementing the planning activities. Institutional leadership support must be demonstrated by the participating institutions.

Limit on Number of Proposals per Organization:

Alliances: Only one proposal may be submitted by an eligible (lead) institution. Alliances may hold only one active alliance award at a time. Institutions partnering in an alliance may not be a formal partner in more than one alliance at the same time. This eligibility applies to proposals for STEM Pathways Implementation-Only Alliances, Bridge to the Baccalaureate Alliances and Louis Stokes STEM Pathways and Research Alliances.
Bridge to the Doctorate (BD) Activity: One proposal for BD support may be submitted annually by an eligible alliance institution. Beginning in FY2018, an institution may have only one active BD award. New proposals for additional cohorts may be submitted in the competition closest to the active BD award's expiration date.

Louis Stokes Regional Centers of Excellence in Broadening Participation (LSRCE): One proposal may be submitted by eligible institutions/organizations annually. Organizations may have only one active center award. All active alliances are eligible to submit LSRCE proposals as lead organizations.

Pre-Alliance Planning: Only one proposal may be submitted by an eligible institution.

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

- **Alliances:** New, existing and pre-alliance planning: 1
- **Bridges to the Doctorate (BD) Activity:** 1
- **Louis Stokes Regional Centers of Excellence in Broadening Participation:** No limit

V. PROPOSAL PREPARATION AND SUBMISSION INSTRUCTIONS

A. Proposal Preparation Instructions

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

- Full proposals submitted via FastLane: Proposals submitted in response to this program solicitation should be prepared and submitted in accordance with the general guidelines contained in the NSF Proposal & Award Policies & 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) 292-7827 or by e-mail from nsfpubs@nsf.gov. Proposers are reminded to identify this program solicitation number in the program solicitation block on the NSF Cover Sheet For Proposal to the National Science Foundation. Compliance with this requirement is critical to determining the relevant proposal processing guidelines. Failure to submit this information may delay processing.

- Full proposals submitted via Grants.gov: Proposals submitted in response to this program solicitation via Grants.gov should be prepared and submitted in accordance with the NSF Grants.gov Application Guide: A Guide for the Preparation and Submission of NSF Applications via Grants.gov. The complete text of the NSF Grants.gov Application Guide is available on the Grants.gov website and on the NSF website at: (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) 292-7827 or by e-mail from nsfpubs@nsf.gov.

In determining which method to utilize in the electronic preparation and submission of the proposal, please note the following:

Collaborative Proposals. All collaborative proposals submitted as separate submissions from multiple organizations must be submitted via the NSF FastLane system. PAPPG Chapter II.D.3 provides additional information on collaborative proposals.

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.

The following information provides instructions that supplement the PAPPG and the NSF Grants.gov Application Guide. Refer also to Section II, Program Description, for additional proposal preparation information and instructions.

For the COVER SHEET: After selecting the LSAMP program solicitation number, under the "NSF Unit Consideration" please select the following:

- "HRD-Division of Human Resource Development" as the NSF division
- "Alliances for Minority Participation (AMP)" for the NSF program (LSAMP was previously known as AMP)

Proposals failing to clearly identify the appropriate program/activity may be returned without review at the discretion of NSF program staff. Grants.gov users should refer to Chapter VI of the NSF Grants.gov Application Guide for guidance about entering NSF Unit Consideration information. The program solicitation number will be pre-populated by Grants.gov on the NSF Grant Application Cover Page.

Review the regulations regarding Human Subjects (45 CFR 690.101-124 https://www.nsf.gov/bfa/dias/policy/human.jsp). This is particularly important for EAGER proposals and proposals from alliances in existence more than 10 years that are required to incorporate an educational research study. Please note that Human Subjects regulations also govern activities that have to do with safeguarding individually identifiable information such as student and faculty surveys and data. Therefore many Projects may need to be reviewed by the Human Subjects Internal Review Board (IRB) for the institution. If the project will be IRB reviewed, please indicate on the cover sheet that the review is pending. If the proposal has already been IRB reviewed and found to be exempt, please indicate so on the cover sheet. If the IRB has already given approval of the activities, include a letter from the IRB and indicate the expiration
date of the IRB approval on the cover sheet. Please note that an award cannot be made unless the IRB process has been completed and documentation has been received by the program director prior to recommending the award.

**ADDITIONAL GUIDANCE FOR REQUIRED COMPONENTS OF LSAMP PROPOSALS**

**SUPPLEMENTARY DOCUMENTS:** The PAPPG or NSF Grants.gov Application Guide requires the following supplementary documents: Data Management Plan and Postdoctoral Researcher Mentoring Plan, if applicable. In addition to these required documents, the only other permitted Supplementary Documents for LSAMP proposals are: Letters of Collaboration (described below); Curriculum vitae(s) for external evaluator(s) and education or social science researcher(s); Logic Model for the Evaluation Plan (see section on Project Evaluation); and Data Tables (described below) and mentoring plans. Note: Biosketches for all senior personnel are required to be uploaded in a different section.

**Letters of Collaboration** are required from each partner organization for all proposals under this solicitation except BD. However, BD proposals must provide some evidence of collaboration with institutions within the alliance. Signed letters should indicate collaborative arrangements and planned contributions of significance to the project.

Additionally, signed letters from key senior administrators should clearly and specifically state how the institutions will support the PI, Co-PIs, members of the alliance leadership team, and the project. Letters that merely endorse the proposal or offer nonspecific general support for project activities or are sent via mail or email are not acceptable.

**Required Data Tables** must include institutional baseline data for each STEM discipline: enrollment, transfer, graduation, matriculation into and completion of undergraduate and graduate STEM programs for the targeted groups of students underrepresented in STEM.

**SINGLE COPY DOCUMENTS:** Collaborators & Other Affiliations (COA) information specified in the PAPPG should be submitted using the instructions and spreadsheet template found at https://www.nsf.gov/bfa/dias/policy/coa.jsp.

Note: A proposal will be returned without review if unallowable documents are included. Please do not include uploads of alliance Impact Reports.

**B. Budgetary Information**

**Cost Sharing:**

Inclusion of voluntary committed cost sharing is prohibited.

**Other Budgetary Limitations:**

- Please see the full text of this solicitation for further information.

**C. Due Dates**

- **Full Proposal Deadline(s) (due by 5 p.m. submitter's local time):**
  - November 03, 2017
  - First Friday in November, Annually Thereafter
  - Bridge to the Doctorate (BD) Activity
  - November 17, 2017
  - Third Friday in November, Annually Thereafter
  - New and Renewal LSAMP Pre-Alliance Planning, Bridge to the Baccalaureate (B2B), STEM Pathways Implementation-Only Projects
  - January 26, 2018
    - STEM Pathways and Research Alliances
  - January 26, 2018
  - Last Friday in January, Annually Thereafter
    - Louis Stokes Regional Centers of Excellence in Broadening Participation
  - November 16, 2018
    - STEM Pathways and Research Alliances

- **Third Friday in November, Annually Thereafter**

**D. FastLane/Grants.gov Requirements**

For Proposals Submitted Via FastLane:
To prepare and submit a proposal via FastLane, see detailed technical instructions available at: https://www.fastlane. NSF.gov/a1/newstan. 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.

For Proposals Submitted Via Grants.gov:

Before using Grants.gov for the first time, each organization must register to create an institutional profile. Once registered, the applicant's organization can then apply for any federal grant on the Grants.gov website. Comprehensive information about using Grants.gov is available on the Grants.gov Applicant Resources webpage: http://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 FastLane are strongly encouraged to use FastLane 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 acknowledgment 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 to 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. In addition, Program Officers may obtain comments from site visits before recommending final action on proposals. Senior NSF staff further review recommendations for awards. A flowchart that depicts the entire NSF proposal and award process (and associated timeline) is included in PAPPG Exhibit III-1.

A comprehensive description of the Foundation's merit review process is available on the NSF website at: https://www.nsf.gov/bfa/dias/policy/merit_review/. Proposers should also be aware of core strategies that are essential to the fulfillment of NSF's mission, as articulated in Investing in Science, Engineering, and Education for the Nation's Future: NSF Strategic Plan for 2014-2018. These strategies are integrated in the program planning and implementation process, of which proposal review is one part. NSF's mission is particularly well-implemented through the integration of research and education and broadening participation in NSF programs, projects, and activities.

One of the strategic objectives in support of NSF's mission is to foster integration of research and education through the programs, projects, and activities it supports at academic and research institutions. These institutions must recruit, train, and prepare a diverse STEM workforce to advance the frontiers of science and participate in the U.S. technology-based economy. NSF's contribution to the national innovation ecosystem is to provide cutting-edge research under the guidance of the Nation's most creative scientists and engineers. NSF also supports development of a strong science, technology, engineering, and mathematics (STEM) workforce by investing in building the knowledge that informs improvements in STEM teaching and learning.

NSF's mission calls for the broadening of opportunities and expanding participation of groups, institutions, and geographic regions that are underrepresented in STEM disciplines, which 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.

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 supportive of, but not a direct outgrowth of, 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?
4. How well qualified is the individual, team, or organization to conduct the proposed activities?
5. Are there adequate resources available to the PI (either at the home organization or through collaborations) to carry out the proposed activities?

Broader impacts may be accomplished through the research itself, through the activities that are directly related to specific research projects, or through activities that are supported by, but are complementary to, the project. NSF values the advancement of scientific knowledge and activities that contribute to achievement of societally relevant outcomes. Such outcomes include, but are not limited to: full participation of women, persons with disabilities, and underrepresented minorities in science, technology, engineering, and mathematics (STEM); improved STEM education and educator development at any level; increased public scientific literacy and public engagement with science and technology; improved well-being of individuals in society; development of a diverse, globally competitive STEM workforce; increased partnerships between academia, industry, and others; improved national security; increased economic competitiveness of the United States; and enhanced infrastructure for research and education.

Proposers are reminded that reviewers will also be asked to review the Data Management Plan and the Postdoctoral Researcher Mentoring Plan, as appropriate.

Additional Solicitation Specific Review Criteria

In addition to the two NSF review criteria of demonstrating intellectual merit and broader impacts of the project, reviewers will be asked to evaluate with careful attention the criteria stated below.

For **Alliance Proposals**: Rationale and coherence of alliance structure; description of evidence-based project activities; quality of the management plan; evidence of support from institutional leadership and STEM faculty; rigor of the project evaluation plan; evidence of institutionalization and sustainability; results of prior NSF LSAMP support; potential to transform undergraduate STEM education; evidence of robust dissemination; potential for adding to the body of knowledge on recruitment and retention of students historically underrepresented in STEM disciplines.

For **BD Activity proposals**: Evidence-based support of proposed interventions; coherent strategy and description of program...
activities; quality of recruitment plan and selection process; success and progress of previous cohorts through the STEM doctoral degree; evidence of institutional support of graduate participants after the two years of NSF funding; evidence of formal connections and meaningful partnerships between STEM graduate programs; rigor of evaluation plan.

For STEM Pathways and Research Alliances: Uniqueness and innovativeness of the research topic; fidelity and qualifications of the research team; relevance and usefulness of the research study; rigor of the research design and methodology; robust dissemination plan that includes potential for the findings and/or recommendations to provide educators with practical and effective strategies for broader integration within educational systems (departments, institutions, alliances) as well as educating the public and other stakeholders on contemporary topics in STEM broadening participation.

B. Review and Selection Process

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

NSF internal review is only for special proposal submissions within funding thresholds per the PAPPG.

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 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 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.

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 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 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 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 https://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.

Special Award Conditions:

In addition to general terms and conditions, special award conditions may be included in the award notice(s) for the funding tracks as follows:

With the exception of pre-alliance projects, awardees are required to address the progress of evaluation efforts in annual reporting. A copy of the evaluator's report must be submitted with 3rd year reporting for 5 year projects. Evaluation reports for all funded projects must include progress articulated by proposed goal, objective, or activity. Evaluation reports for all funded projects should also include highlights that capture interesting accomplishments or features of the projects.

For LSAMP Alliance and BD Projects Only: Alliances are required to report enrollment, degree data, and other data annually via the WebAMP reporting systems.

For BD awards, residual funds from standard grants may NOT be reallocated to other cohorts. No participant support funding will be approved for reallocation to support administration of the BD activity.

Activities of the Governing Board and other advisory bodies must be addressed in annual and final reporting.

All LSAMP-funded projects are required to cooperate with NSF evaluation and assessment activities. NSF, an NSF contractor, or a grantee on behalf of NSF, may from time to time conduct program evaluations of LSAMP projects. These may occur at any time during the grant period and sometimes after the grant period has ended. Reasonable cooperation with these efforts is required by the grantee.

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:

- LSAMP Program Team, telephone: (703) 292-8640, fax: (703) 292-9018, email: LSAMP_national@nsf.gov
- A. James Hicks, Co-Lead/Program Director, 815 N, telephone: (703) 292-4668, email: ahicks@nsf.gov
- Martha L. James, Co-Lead/Program Director, telephone: (703) 292-7772, email: mjames@nsf.gov
- LeRoy Jones II, Program Director, 815, telephone: 703-292-4684, email: ljones@nsf.gov
- Alfred W. Wilson, Program Analyst, telephone: (703) 292-4835, email: awilson@nsf.gov
- Cynthia R. Douglas, telephone: (703) 292-5175, email: cdouglass@nsf.gov

For questions related to the use of FastLane, contact:

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

For questions relating to Grants.gov contact:

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

The NSF website provides the most comprehensive source of information on NSF Directorates (including contact information), programs and funding opportunities. Use of this website by potential proposers is strongly encouraged. In addition, "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 http://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: 4201 Wilson Blvd. Arlington, VA 22230
- For General Information (NSF Information Center): (703) 292-5111
- TDD (for the hearing-impaired): (703) 292-5090
- To Order Publications or Forms:
  - Send an e-mail to: nsfpubs@nsf.gov
  - or telephone: (703) 292-7827
- To Locate NSF Employees: (703) 292-5111

PRIVACY ACT AND PUBLIC BURDEN STATEMENTS

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

An agency may not conduct or sponsor, and a person is not required to respond to, an information collection unless it displays a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 3145-0058. 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
Office of the General Counsel
National Science Foundation
Arlington, VA 22230