- Alliance Development Grants (ADG) - New
- Bridge-to-the-Baccalaureate Alliances (B2B)
- STEM Pathways Implementation-Only Alliances (SPIO)
- STEM Pathways Research Alliances (SPRA)
- Bridges to STEM Graduate Degrees in National Priorities: (BD Master's) - New
- Bridges to STEM Graduate Degrees in National Priorities: (BD-Doctoral)
- STEM Networking Incentives and Engagement (NETWORKS) - New

Reference is made to LSAMP populations and individuals from groups underrepresented in STEM. These references to Blacks and African-Americans, Hispanic and Latino Americans, American Indians, Alaska Natives, Native Hawaii Pacific Islanders.

Changes/Updates

- Bridge-to-the-Baccalaureate Alliances (B2B) support increases from a maximum of ˘ 1.5M over 3 years, to a maximum of ˘ 2.0M over 5 years.
- STEM Pathways Implementation-Only (SPIO) alliances are eligible for Bridge to STEM Graduate Degrees in National Priorities: (BD Master's) and Bridge to STEM Graduate Degrees in National Priorities (BD-Doctoral) funding opportunities following the first 5 years of LSAMP support.

Project description page limit designations for the research and institutionalization components are specified for STEM Pathways Research Alliances (SPRA) alliance proposals.

Bridge to the Baccalaureate, STEM Pathways Implementation-Only and STEM Pathways Research Alliance proposals may include support for partnerships with small businesses, particular Small Business Innovative Resea (SBIR) projects to foster non-academic research experiences for matriculating LSAMP students and research ment

New Project Types:

- Alliance Development Grants (ADG) support the conceptualization and development for new B2B and new alliances.
- Bridge to STEM Graduate Degrees in National Priorities (BD-Master's) projects support cohorts of six studer from Master's comprehensive institutions in STEM national priority areas.
- STEM Networking Incentives and Engagement (NETWORKS) projects incentivize the creation and participati of LSAMP populations in STEM networks.

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Cognizant Program Officer(s):

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

- 4+.O+6 --- STEM Education

Award Information

Anticipated Type of Award: Standard Grant or Continuing Grant

Estimated Number of Awards: 45 to 60

Anticipated Funding Amount: ˜ 3, ,000,000

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

Eligibility Information

Who May Submit Proposals:

Alliances:

- STEM Pathways Implementation-Only (SPIO): Institutions of Higher Education (IHEs) - Two-and-four-year IHEs (including community colleges) accredited in and having a campus located in the US, acting on behalf of their faculty members.

- STEM Pathways Research Alliance (SPRA): Institutions of Higher Education (IHEs) - Two-and-four-year IHEs (including community colleges) accredited in and having a campus located in the US, acting on behalf of their faculty members.

- Bridge to the Baccalaureate (B2B): B2B Alliances are composed entirely of two-year IHEs. The lead institution must award associate-level degrees in a STEM or STEM-related eld. Associate-level degree-granting institutions that award four-year degrees in workforce development areas may be eligible to serve as the lead institution of a B2B alliance. Four-year institutions that award STEM baccalaureate degrees are ineligible to serve as lead institutions for B2B alliances but may be included as partner institutions for articulation purposes as a transfer pathway to four-year STEM degree programs. Funds are not budgeted for four-year institutions in B2B projects. Proposers should contact the LSAMP program sta for any questions on eligibility for B2B alliance support.

Bridges to STEM Graduate Degrees in National Priorities (BD-Master's)

- Master's Comprehensive IHEs as de ned by Carnegie Classi cation only. Carnegie Classi cation website ttm   3   SU

Who May Serve as PI:

M   M   eees   e l e rad   M

board. The alliance governing board is a body of upper-level administrators from each partner institution

Limit on Number of Proposals per Organization:

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

Proposal Preparation and Submission Instructions

A. Proposal Preparation Instructions

- Letters of Intent: Not required

- Preliminary Proposal Submission: Not required

- Full Proposals:
  - Full Proposals submitted via Research.gov:

Proposal Review Information Criteria

Merit Review Criteria:

National Science Board approved criteria. Additional merit review criteria apply. Please see the full text of this sol 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:

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

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A. Program Overview

The LSAMP program invests in the nation's colleges and universities to aid student success, directly or indirectly, a STEM pathways, thereby creating a new generation of STEM discoverers for the STEM enterprise nationally and internationally. With a focus on the participation of underrepresented groups, particularly those from named LSA populations, in national priority areas, specifically emerging science and technologies, the program's priorities are

- increase individual student engagement, retention, and completion of baccalaureate degrees for LSAMP populations/
- enable the successful transfer of LSAMP populations from two-year to four-year institutions in STEM degre programs/
- increase access to evidence-based, high quality and highly impactful practices in STEM recruitment and ret
- facilitate seamless transition of underrepresented groups into STEM graduate programs and subsequent graduate degree completion/
- stimulate new research and learning on broadening participation in STEM disciplines.

These priorities are intended to produce short and long-term outcomes resulting in the successful production of h competitive and diverse talent for the STEM enterprise while concurrently contributing new knowledge to the ele broadening participation.

Areas of emphasis that respond to national priorities and preparation for emerging sciences, include quantum information science, advanced materials and manufacturing, artificial intelligence, data science and analytics, clir change, cybersecurity, robotics, plant genetics/agricultural technologies, clean energy, and semiconductors/microelectronics.

All proposals for LSAMP support must demonstrate creative and entrepreneurial thinking, innovative strategies, r pedagogies, and partnerships to maximize opportunities that prepare undergraduate and graduate students from populations for 21st century STEM careers.

B. Alliances

LSAMP, at its core, is an alliance-based program that provides student and mentor support beginning at the undergraduate level. K-12 activities should be leveraged through other resources.

An alliance is defined as a group of organizations working together for mutual benefit and support of the goals and objectives of the national LSAMP program. B2B, SPIO and SPRA are alliance-type projects. At a minimum, an alliance must consist of four IHEs. These projects are funded to implement comprehensive evidence-based strategies that ultimately result in the graduation of highly competitive STEM students from LSAMP populations who pursue grad degrees or careers in STEM elds, particularly in emerging or trending elds of national priority. Other non-acader organizations may also participate in an alliance. Forming an alliance should be intentional and allow for building relationships among institutions.

Alliances should be based on quality, not quantity, of partners and all participating institutions should be able to from this collective arrangement. The number of institutions in an alliance should be commensurate with the scor project and the activities proposed should be realistic and beneficial to all alliance members.

LSAMP alliances should directly address recruitment, preparation and retention of LSAMP populations. Alliances a expected to significantly increase the numbers of STEM degrees to students under-represented in STEM elds. The students may include those who transfer from two-year institutions to four-year STEM programs to complete the S baccalaureate degree. Students may also enter directly into undergraduate STEM programs from secondary schoo fulfill the STEM baccalaureate degree.

Well-established alliances must also produce and disseminate new scholarly research on broadening participation LSAMP populations (or underrepresented and under-served populations in STEM disciplines and the nation's STEM

3. STEM Pathways Implementation-Only Alliances (SPIO)

SPIO alliances are the rst implementation projects for new alliances or alliances that have reconstituted its allian membership and have been funded by the LSAMP program for 10 years or less. See guidance for reconstituted allia below.

SPIO alliances focus on building and strengthening strategies and collaborative approaches to assist IHEs in divers the nation's science, technology, engineering and mathematics (STEM) workforce by increasing the number of STEI baccalaureate and graduate degrees awarded to LSAMP populations.

These projects are expected to (a) address the production of highly competitive STEM students at the undergradua leading to increases in STEM baccalaureate degrees from LSAMP populations and entry into graduate school, (b) in plans for building upon established strategies and collaborative approaches that have been e ective in the recrui retention and graduation of LSAMP populations and relative to the evolving state of STEM workforce development indicate past institutional successes, (e.g., e orts at transforming the academic and/or research environment), in producing highly competitive students from LSAMP populations in STEM disciplines. Activities must include implementation of evidence-based strategies to support successful recruitment, retention and graduation of LSAM populations in STEM, or adaptation of previously successful approaches for a new institutional context and/or STE discipline. Although direct support for K-12 activities are not allowable, evidence of linkages to the K-12 communit expected.

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Existing SPIO alliances should leverage their experience and knowledge in implementing an LSAMP project that continually serves as national models of excellence in increasing STEM B. S. degree production and preparation of highly competitive students from LSAMP populations for entry into STEM graduate programs or STEM careers nati

4. STEM Pathways Research Alliances(SPRA)

SPRA alliances are successful partnership models of excellence in recruitment and retention practices that have r in signi cant increases in STEM degrees to underrepresented populations in STEM. While continuing to signi cantl increase STEM degrees to LSAMP populations and preparing students for 21st century workforce or in emerging STEM disciplines and technologies, SPRA alliances are required to address: (1) the continuing production of highly compe STEM students at the undergraduate level leading to increases in STEM baccalaureate degrees from LSAMP popula and entry into graduate school, (2) the national need for production and dissemination of new scholarly research broadening participation of racial/ethnic minorities in STEM disciplines and the nation's STEM workforce and, (3) holistically assess the state of institutionalization and sustainability progress for the alliance.

SPRA alliance proposals are required to include a robust broadening participation research component in the form innovative knowledge-generating research plan that rigorously investigates e ective practices or innovations in S education grounded in existing theories of student success. The primary purpose of the research component is to produce new knowledge and to disseminate new learning to the nation.

The project description must describe the full methodology of the study(ies), potential types of articles, other products/report types produced from the research and timeline for production and dissemination of BPR activitie research may be related to the proposed alliance strategies for recruiting, retaining, and graduating LSAMP popul STEM, analysis and studies of practical approaches and practices that the alliance or partners have implemented t to successful outcomes for underrepresented or under-served populations in STEM or any topic of broadening participation in STEM.

SPRA Page Component Requirements: SPRA proposals must devote 10 pages of the project description to the requi
research component and three pages to a discussion of institutionalization status. See additional guidance on the
preparation of the institutionalization component below.

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included in the supplementary documentation section of the proposal.

Up to 20 pages may be used to develop the SPRA project description. Up to 50 percent of the cumulative budget ma
allocated to the broadening participation research and project evaluation components. The budget justi cation sh
include a summary cost allocation for these two components.

Existing SPRA alliances should leverage their experience and knowledge in implementing an LSAMP project that
continually serves as national models of excellence in the production and dissemination of broadening participation
research to increase the knowledge-base in diversifying the nation's STEM workforce.

USEFUL RESOURCES FOR EDUCATIONAL RESEARCH

The National Science Foundation and the Institute of Education Statistics in the U.S. Department of Education dev
Common Guidelines for Education Research and Development. The Guidelines describe six types of research studie
can generate evidence about how to increase student learning. For each research type, there is a description of th
purpose and the expected and/or theoretical justi cations, types of project outcomes, and quality of evidence. Th
Guidelines and Frequently-Asked Questions (FAQ) can be found on the NSF website with the number NSF 13-126 and
NSF 13-12+.

5. Bridges to STEM Graduate Degrees in National Priorities: (BD-Master's and BD-Doctoral) Activity

BD-Master's and BD-Doctoral projects provide nancial support (stipends and cost of education) to a critical mass
twelve STEM baccalaureate-degree recipients, respectively, who were active, certi ed participants in LSAMP progr
undergraduates. BD participants are funded for the rst two years of their graduate studies in STEM.

The goal of the BD-Master's and BD-Doctoral Activity is to prepare students from LSAMP populations for completio
STEM graduate degree programs, particularly the STEM doctoral degree, at Master's comprehensive and doctoral-
granting institutions. At the post-baccalaureate level, BD-Master's and BD-Doctoral sites provide necessary acaden
research and professional development skills that enable participants to successfully persist in STEM graduate deg
programs.

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ANTICIPATED AWARDS AND FUNDING LEVELS by PROJECT TYPE

Project Type: Alliance Develop—   ˙   M   M

- Institutions of Higher Education (IHEs) - Two-and-four-year IHEs (including community colleges) accredited in and having a campus located in the US, acting on behalf of their faculty members.
- Non-profit, non-academic organizations: Independent museums, observatories research laboratory professional societies and similar organizations located in the U. S. that are directly associated with educational or research activities.
- For-profit organizations: U.S.-based commercial organizations, including small businesses, with strong capabilities in scientific or engineering research or education and a passion for innovation.

NETWORKS projects are limited to four collaborating organizations per proposal.

Who May Serve as PI:

Alliance Development Grant (ADG) Proposals

The PI for ADG proposals must be an upper-level administrator/cabinet-level official from the executive leadership (i.e., Provost, Dean, VP of Academic Affairs, etc.) of the institution. A deviation from this requirement for PI designation requires a full justification. Faculty may be listed as Co-PIs.

Alliances: Bridge to the Baccalaureate (B2B), STEM Pathways Implementation-Only (SPIO) and STEM Pathways Research Alliance (SPRA)

The PI for alliances (B2B, SPIO, and SPRA) should be a cabinet-level official from the executive leadership (i.e., Provost, Dean, VP of Academic Affairs, etc.) of the institution and a member of the alliance governing board. The alliance governing board is a body of upper-level administrators from each partner institution that oversees the alliance. A deviation from this requirement for PI designation requires a full justification Individuals from partner institutions must be designated as co-PIs on the proposal.

To ensure production of new STEM education research knowledge as a required element of the SPRA project, one or more of the Co-PIs on an SPRA proposal must be a social or data scientist, disciplinary/interdisciplinary education researcher, or evaluator.

Bridges to STEM Graduate Degrees in National Priorities (BD-Master's and BD-Doctoral) Proposals

The PI for the BD-Master's and/or BD-Doctoral proposal should be a cabinet-level official from the executive leadership of the institution and a member of the alliance governing board. The alliance governing board is a body of upper-level administrators from each partner institution that oversees the alliance. Co-PIs may be members of the institution's graduate leadership team or STEM faculty. A deviation from this requirement for PI designation requires a full justification. One Co-PI must be the alliance director if the selected BD-Master's or BD-Doctoral site is different from the lead institution. See section V for more information on the requirement to established a Governing Board.

STEM Networking Incentive and Engagement Proposals (NETWORKS)

The PI and Co-PIs for STEM Networking Incentive and Engagement proposals may be faculty members.

Limit on Number of Proposals per Organization:

Alliance Development Grant (ADG) and Alliance Proposals (Bridge to the Baccalaureate (B2B, STEM Pathways Implementation-Only (SPIO) and STEM Pathways Research Alliance (SPRA)

Only one ADG, B2B, SPIO, or SPRA proposal may be submitted by an eligible (lead) institution (IHE). Alliances (B2B, SPIO, SPRA) 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. Formal partners are IHEs

participating in an alliance that report enrollment and degree data to NSF. See Section VII on grantee reporting requirements.

Bridges to STEM Graduate Degrees in National Priorities (BD-Master's) Proposals

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

Additional Eligibility Info:

See PAPPG Chapter II.E.3 for additional information on collaborative proposal submissions.

A. Proposal Preparation Instructions

Full Proposal Preparation Instructions: Proposers may opt to submit proposals in response to this Program Solicita[tion] via Research.gov or Grants.gov.

- Full Proposals submitted via Research.gov: Proposals submitted in response to this program solicitation sh[ould be] prepared and submitted in accordance with the general guidelines contained in the 16) 3URSRVDO DQG $ZDUG 3ROLFLHV DQG 3URFHGXUHV *XLGH 3$33* 7KH FRPSOHWH WH[W RI WKH 3$33* LV DYDLODE[OH] ZHEVLWH DW KWWSV ZZZ QVI JRY SXEOLFDWLRQV SXE VXPP MVS"RGV"NH\ 3DSSPHFRSSLHG RQ WKH REWDLQHG IURP WKH 16) 3XEOLFDWLRQV &OHDULQJKRXVH QWHOSXEV#QVI.JRY 7KH 3UHSDUH 1HZ 3URSRVDO VHWXS ZLOO SURPSW \RX IRU WKH SURJU[DP]

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6HSDUDWHO\ VXEPLWWHG FROODERUDWLYH SURSRVDOV are permitted for the following project types: ADG, B2B, SPIO, SPRA, BD-Master's and BD-Doctoral. These project type proposals must be submitted by a lead organization with collabo[rating] organizations supported by subawards.

Collaborative STEM Networking and Engagement (NETWORKS) proposals are permitted and may be submitted as a single proposal with subawards or as separately submitted collaborative proposals from multiple organizations.

See PAPPG Chapter II.E.3 for additional information on collaborative proposal submissions.

The following instructions supplement guidelines in the PAPPG and NSF Grants.gov Application Guide, and include:

- Proposal title instructions for all LSAMP proposal types
- Page length of Project Description
- Guidance on documents and overarching content for all proposal types (ADG, B2B, SPIO, SPRA, BD-Master's [and BD-] Doctoral, NETWORKS)
- Guidance on content for all LSAMP Alliance proposal types (B2B, SPIO, SPRA)
- Additional guidance pertinent to each specific LSAMP project type
  - For Alliance Development Grants (ADG) proposals

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Proposal title instructions for all LSAMP project types:

- For Alliance Development Grant (ADG) proposals
  - Begin the project title with ˝ LSAMP ADG: Name of Proposed Alliance˝
- For Bridge-to-the-Baccalaureate (B2B) proposals
  - Begin the project title with ˝ LSAMP B2B: Name of new or existing alliance˝
- For STEM Pathways Implementation-Only (SPIO) proposals
  - Begin the project with ˝ LSAMP SPIO: Name of new or existing alliance˝
- For STEM Pathways Research Alliances (SPRA) proposals
  - Begin the project with ˝ LSAMP SPRA: Name of new or existing alliance˝
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STEM PATHWAYS IMPLEMENTATION-ONLY ALLIANCES (SPIO) PROPOSALS

SPIO projects are expected to:

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16) VWDé IXUWKHU UHYLHZ UHFRPPHQGDWLRQV IRU DZDUGV $ ëRZFKDUW \

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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:

All Alliance Proposals (B2B, SPIO, SPRA): Rationale for and coherence of alliance y

Administrative and National Policy Requirements

Build America, Buy America

As expressed in Executive Order 14005, Ensuring the Future is Made in All of America by All of America's Workers (86 FR +4+5), it is the policy of the executive branch to use terms and conditions of Federal financial assistance awards to maximize, consistent with law, the use of goods, products, and materials produc5,

DYDLODEOH HOHFWURQLFDOO\ WR WKH ZZZ16Q VHRLWSXDO FDWLRQV SXEVXP

,Q DGGLWLRQ WR JHQHUDO UHSRUWLQJ UHTXLUHPHQWV VSHFLDO UHSRUW

- $QQXDO DQG êQDO DQQXDO UHSRUWV IRU DOO /6$03 SURMHFWV PXVW VXVWDLQDELOLW\ RI VXFFHVVIXO UHFUXLWPHQW DQG UHWHQWLRQ SU RWKHU SULYDWH SXEOLF QRQ SURêW DQG SURIHVVLRQDO VRFLHW\ V IRU 67(0 VWXGHQWV PXVW EH DGGUHVVHG LQ WKH DQQXDO DQG êQDO

- $QQXDO DQG êQDO DQQXDO UHSRUWV PXVW LQFOXGH D GHVFULSWLRQ UHVHDUFK VWXG\ ,Q SDUWLFXODU FKDQJHV WKDW PD\ KDYH EHHQ PD PHWKRGV RI DQDO\VLV PXVW EH DGGUHVVHG $QQXDO DQG êQDO DQQ LQFOXGLQJ WLPHOLQHV IRU SXEOLVKLQJ RI VFKRODUO\ UHVHDUFK IU UHVHDUFK FRPSRQHQW RI WKH SURMHFW

- 7KH UHFLSLHQW ZLOO VXEPLW DOO FHUWLêFDWLRQV DG KRF DQG UH VXEPLVVLRQ WLPHOLQHV GHVLJQDWHG E\ 16) DQG WKH FRJQL]DQW 16