Office of Research and Sponsored Programs, Campus Center, Room H-313C, Tele. ext. 3215

Improving Undergraduate STEM Education: Hispanic-Serving Institutions (HSI Program) National Science Foundation

URL: https://nsf.gov/pubs/2019/nsf19540/nsf19540.pdf

Application due date: September 18, 2019.

While it may be too late for our College to compete this year, faculty may want to begin sharing ideas and considering possibilities under the Improving Undergraduate STEM Education: Hispanic-Serving Institutions (HSI Program). This National Science Foundation (NSF) program seeks to enhance the quality of undergraduate STEM education at HSIs and to increase retention and graduation rates of undergraduate students pursuing degrees in science, technology, engineering, and mathematics (STEM) at HSIs. To be eligible for HSI Program funding, at the time of application a college must be accredited, offer undergraduate educational programs in STEM, and satisfy the definition of an HSI as specified in section 502 of the Higher Education Act of 1965 (20 U.S.C. 1101a). Data of the U.S. Department of Education indicates the College at Old Westbury is presently eligible under these regulations. If a September 18 deadline appears to be too soon to prepare a truly competitive proposal, it may not be too soon to begin brainstorming about a 2020 proposal. Note: This is the second of two application deadlines for this NSF program in 2019; the other was held in March. Actual 2020 due dates are not yet known.

Advancing Diversity in Aging Research through Undergraduate Education National Institute on Aging, National Institutes of Health

URL: https://grants.nih.gov/grants/guide/pa-files/PAR-17-290.html

Application due dates: September 25, 2019 and January 25, 2020.

The National Institutes of Health (NIH) supports research education activities through what is known as its "R25" award mechanism. The over-arching goal of this R25 program of the National Institute on Aging (NIA) is to support educational activities that enhance the diversity of the biomedical, behavioral and clinical research workforce in aging. NIA is seeking applications that offer (1) structured research experiences, (2) tailored learning opportunities, (3) an emphasis on explaining the relevance of aging and of the science of aging to students' lives, and (4) opportunities to engage fellow students with an interest in science in order to develop a cadre of graduates who will go on to research careers allowing them to diversify the research workforce on aging, enrich the questions asked, and expand the scope of interventions developed from the research. The means to achieve this end may include structured research experiences, science clubs, or other targeted activities. Direct Costs of up to $350,000/year may be awarded. Project periods are limited to five years.

Organizational Change for Gender Equity in STEM Academic Professions (ADVANCE) Adaptation and Partnership Track, National Science Foundation

URL: https://www.nsf.gov/pubs/2019/nsf19552/nsf19552.htm#pgm_desc_txt

Due dates: Letter of Intent, November 1, 2019. Full proposal, January 15, 2020.

The NSF ADVANCE program seeks to build on prior NSF ADVANCE work and other research and literature concerning gender, racial, and ethnic equity to meet the program goal of broadening the implementation of evidence-based systemic change strategies that promote equity for STEM faculty in academic workplaces and the academic profession. The NSF ADVANCE program provides grants to enhance the systemic factors that support equity and inclusion, and to mitigate the systemic factors that create inequities in the academic profession and workplaces.

Advancing Informal STEM Learning (AISL), National Science Foundation

URL: https://nsf.gov/pubs/2017/nsf17573/nsf17573.pdf

Application due date: November 6, 2019.

Over the last several decades, there has been a growing understanding and acknowledgment that learning occurs across the lifespan and in places and spaces beyond schools or the school day. It is recognized that there is unequal distribution of and access to quality STEM learning experiences for individuals, families, and communities. The Advancing Informal STEM Learning (AISL) program seeks to advance new approaches to and evidence-based understanding of the design and development of STEM learning opportunities for the public in informal environments; provide multiple pathways for broadening access to and engagement in STEM learning experiences; advance innovative research on and assessment of STEM learning in informal

environments; and engage the public of all ages in learning STEM in informal environments. The AISL program supports six types of projects: (1) Pilots and Feasibility Studies, (2) Research in Service to Practice, (3) Innovations in Development, (4) Broad Implementation, (5) Literature Reviews, Syntheses, or Meta-Analyses, and (6) Conferences. An institution or organization may serve as lead on no more than three (3) proposals submitted to the November deadline.

Discovery Research PreK-12 program (DRK-12), National Science Foundation

URL: https://nsf.gov/pubs/2017/nsf17584/nsf17584.pdf
Application due date: November 13, 2019.

The Discovery Research PreK-12 program (DRK-12) seeks to significantly enhance the learning and teaching of science, technology, engineering, mathematics and computer science (STEM) by preK-12 students and teachers, through research and development of STEM education innovations and approaches. Projects should build on fundamental research in STEM education and prior research and development efforts that provide theoretical and empirical justification for proposed projects. Projects should result in research-informed and field-tested outcomes and products that inform teaching and learning. Teachers and students who participate in DRK-12 studies are expected to enhance their understanding and use of STEM content, practices and skills.

On Preparing an NSF Proposal

Faculty who plan to submit a proposal to the NSF may want to view a 2 hr, 15 min YouTube video on the subject, recorded at the Fall 2018 NSF Conference. Visit: https://nsfgrantsconferences.com/2018/12/20/proposal-preparation18/.

A "heads up" concerning the NSF's Proposal and Award Policies and Procedure Guide (PAPPG)

We urge faculty to make certain they are following current NSF instructions when preparing their grant proposal. The PAPPG has been updated with some regularity in recent years, but – *warning!* – it is not enough to see that your issue of the PAPPG reads 2019. The PAPPG published with an effective date of January 28, 2019 appearing on the cover was subsequently updated! Look for an effective date of February 25, 2019 on your copy of the PAPPG.

Facilitating Research at Primarily Undergraduate Institutions: The RUI and ROA Programs

Predominantly undergraduate institutions (PUIs) play a critically important role in U.S. science, engineering, and technology through their substantial contributions to education and to research. NSF encourages research by faculty members of these institutions to ensure a broad national base for research and to help faculty members stay at the cutting edge of their disciplines. Such research not only contributes to basic knowledge in science and engineering but also provides an opportunity for integration of scientific discovery into undergraduate education. The Research in Undergraduate Institutions (RUI) and Research Opportunity Awards (ROA) funding opportunities support research by faculty members at predominantly undergraduate institutions (PUIs). RUI proposals support PUI faculty in research that engages them in their professional field(s), builds capacity for research at their home institution, and supports the integration of research and undergraduate education. ROAs similarly support PUI faculty research, but these awards typically allow faculty to work as visiting scientists at research-intensive organizations where they collaborate with other NSF-supported investigators.

All NSF directorates may support RUI and ROA funding activities. Prospective applicants should contact disciplinary program officers to identify specific NSF programs and to determine the feasibility and timing of RUI/ROA requests. Application deadlines generally follow the posted application due dates for traditional research proposals at each program, but this is something that should be clarified in conversation with your relevant program officer. The Office of Research & Sponsored Programs can assist in making contact with appropriate personnel at the NSF and may be able to assist in establishing inter-institutional arrangements

www.oldwestbury.edu/research

The **Office of Research and Sponsored Programs** serves the College at Old Westbury in the dual roles of promoting grant-supported scholarly activity and assisting in the administration and management of sponsored programs. Consequently, the Office reports to both the **Office of Academic Affairs** and the **Division of Business & Finance**.

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