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

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: May 15, 2019, Letter of Intent; May 22, 2019, Full Proposal.
November 1, 2019, Letter of Intent; January 15, 2020, Full Proposal.

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. Systemic (or organizational) inequity may exist in areas such as policy and practice as well as in organizational culture and climate. The focus on equity for STEM academic faculty is strategic, since faculty educate, train, and mentor undergraduate and graduate students and postdoctoral scholars and therefore have significant influence over the preparation, interest, persistence, completion, and career choice of future scientists and engineers.

Education & Human Resources (EHR) Core Research: Building Capacity in STEM Education National Science Foundation

URL: https://www.nsf.gov/pubs/2019/nsf19565/nsf19565.htm?WT.mc_id=USNSF_25&WT.mc_ev=click
Application due date: June 7, 2019.

This program (ECR: BCSER) supports projects that build individuals' capacity to carry out high quality STEM education research that will enhance the nation's STEM education enterprise and broaden the pool of researchers that can conduct fundamental research in STEM learning and learning environments, broadening participation in STEM fields, and STEM workforce development.

Specifically, ECR: BCSER supports activities that enable early and mid-career researchers to acquire the requisite expertise and skills to conduct rigorous fundamental research in STEM education. ECR: BCSER seeks to fund research career development activities on topics that are relevant to qualitative and quantitative research methods and design, including the collection and analysis of new qualitative or quantitative data, secondary analyses using extant datasets, or meta-analyses.

This career development may be accomplished through investigator-initiated projects or through professional development institutes that enable researchers to integrate methodological strategies with theoretical and practical substantive issues in STEM education. Early and mid-career faculty new to STEM education research, particularly underrepresented minority faculty and faculty at minority-serving and two-year institutions are encouraged to submit proposals.

Other Upcoming Education Program Deadlines of the National Science Foundation

Robert Noyce Teacher Scholarship Program   Due date: August 27, 2019.
URL: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5733&org=NSF&sel_org=NSF&from=fund

Innovative Technology Experiences for Students and Teachers (ITEST)   Due date: August 14, 2019.
URL: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5467&org=NSF&sel_org=NSF&from=fund
Prospective applicants to this program should note that ITEST is currently under revision. While some program planning may be possible based on the most recent (2017) ITEST solicitation, one would be well advised to consider e-mail/telephonic consultations with a program officer, concerning the appropriateness of currently envisioned ITEST activity. The ORSP would be pleased to help you prepare for such a consultation. One way we might do so is by conducting a review of recently funded ITEST projects for similarity and contrast with what you envision in an Old Westbury proposal. (Tele. ext. 3215).

National Science Foundation: <u>Summer 2019</u> <u>Social Sciences</u> Deadlines and URLs

Science of Learning Program
URL: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5567&org=SBE&from=home Due date: July 10, 2019.

Developmental Sciences Program
URL: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=8671&org=SBE&from=home Due date: July 15, 2019.

Social Psychology Program
URL: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5712&org=SBE&from=home Due date: July 15, 2019.

Law and Social Sciences Program
https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504727&org=SBE&from=home Due date: August 1, 2019.

Perception, Action & Cognition Program
URL: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5686&org=SBE&from=home Due date: August 1, 2019.

Science, Technology and Society Program
URL: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5324 Due date: August 5, 2019.

Sociology Program
URL: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5369&org=SBE&from=home Due date: August 15, 2019.

Political Science Program
URL: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5418&org=SBE&from=home Due date: August 15, 2019.

Decision, Risk and Management Sciences Program
URL: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5423&org=SBE&from=home Due date: August 19, 2019.

Economics Program
URL: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5437&org=SBE&from=home Due date: August 19, 2019.

Science of Organizations Program
URL: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504696&org=SBE&from=home Due date: Sept. 3, 2019.

For Information on 2019 Offerings of Other Major NSF Divisions and Directorates

Directorate for Biological Sciences (BIO), https://www.nsf.gov/funding/programs.jsp?org=BIO

Division of Chemistry (CHE), https://www.nsf.gov/funding/programs.jsp?org=CHE

Directorate for Computer & Information Sci. & Engineering (CISE), https://www.nsf.gov/funding/programs.jsp?org=CISE

Division of Mathematical Sciences (DMS), https://www.nsf.gov/funding/programs.jsp?org=DMS

Division of Physics (PHY), https://www.nsf.gov/funding/programs.jsp?org=PHY

Directorate for Education and Human Resources (EHR), https://www.nsf.gov/funding/programs.jsp?org=EHR

NIH to Support Data Science Research through the Academic Research Enhancement Award (AREA) Program

URL: https://grants.nih.gov/grants/guide/notice-files/NOT-GM-19-021.html
and AREA Parent FOA https://grants.nih.gov/grants/guide/pa-files/par-18-714.html

> **AREA Grant Application Due Dates:**
> June 25, 2019
> October 25, 2019
> February 25, 2020.

Modern biomedical research is becoming increasingly quantitative and reliant on computational methods, with growing use of large and complex datasets to address biomedical research questions and advance human health. NIH recently released its Strategic Plan for Data Science that highlighted the need for the next generation of researchers to be equipped with the skills of this interdisciplinary field and in March the agency issued a Notice (NOT-GM-19-021) highlighting the planned role of the Academic Research Enhancement Award (AREA) program in exposing undergraduate students to data-science research, encouraging the submission of applications from faculty with expertise in biomedical data science and related disciplines with research questions that are within the mission of the participating NIH Institutes and Centers.

The goals of the AREA Program remain threefold: (1) provide support for meritorious research at undergraduate-focused institutions; (2) strengthen the research environment at these institutions; and (3) give undergraduate students an opportunity to gain significant biomedical research experience through active involvement in the research. The present announcement by NIH serves to encourage proposal submissions of a kind not often received for AREA support.

AREA grants provide funding at a level of up to $300,000 (plus Facilities & Administrative Costs, a.k.a. Indirect Costs) for project periods of 1, 2 or 3 years. AREA applications are encouraged to include faculty and students from diverse

backgrounds, including underrepresented racial and ethnic groups, first generation college students, students from low socio-economic backgrounds, and individuals with disabilities

• NIH Strategic Plan for Data Science
https://datascience.nih.gov/sites/default/files/NIH_Strategic_Plan_for_Data_Science_Final_508.pdf

• Informational Page - NIH Research Enhancement Awards (including Academic Research Enhancement Awards)
https://grants.nih.gov/grants/funding/r15.htm

About the National Institute of General Medical Sciences (NIGMS)

Applicants to the National Institutes of Health are urged by the agency to assist referral officers in assigning the applicant's grant proposal to an appropriate Institute and appropriate Study Section for review. Proper assignment can be critically important to the outcome of proposal review and likelihood of funding. Although a researcher's inclination may be to project the implications of their research long term and, therefore, propose an Institute assignment based on a particular medical condition (e.g., National <u>Cancer</u> Institute), such focus may be premature. In some cases, a more appropriate assignment of your application may be to the National Institute of <u>General Medical Sciences</u> (NIGMS). Following is a statement titled the "Director's Overview," which describes the mission and role of the NIGMS. This brief has been excerpted from the FY 2019 budget justification report to Congressional appropriations subcommittees, relative to the NIGMS.

The National Institute of General Medical Sciences (NIGMS) focuses on supporting fundamental or "basic" biomedical research. At its core, fundamental science seeks to elucidate and expand scientific knowledge about how living systems work, from individual molecules to cells, organs, whole organisms, and populations. A strength of fundamental science is that it is neither disease nor organ specific. Rather, fundamental science creates the very foundation upon which an understanding of normal life processes and the diseases that disrupt them are built.

Fundamental research is essential for achieving medical and technological breakthroughs. This year's Nobel Prizes in both chemistry and in physiology or medicine, for instance, were awarded to multiple NIGMS grantees. The Nobel Prize in chemistry was awarded to an NIGMS grantee and two others for the development of cryo-electron microscopy (cryo-EM), a technique that simplifies and improves the imaging of biomolecules. This improved imaging allows researchers to make unprecedented advances in understanding the dynamics of various cellular processes that can, in turn, lead to the development of new drugs and vaccines. Similarly, the Nobel Prize in physiology or medicine was awarded to three NIGMS grantees for their work on molecular mechanisms controlling circadian rhythms, more commonly known as the "biological clock." Biological clocks influence a variety of physiological conditions such as alertness, hunger, metabolism, fertility, and mood; clock dysfunction is associated with various disorders, including insomnia, diabetes, and depression. The award for this work serves as another example of how studying fundamental biological processes in model organisms such as fruit flies can reveal important principles that underlie human biology, health, and disease.

NIH Research Grant Applications Calendar

Following is a brief description of NIH research grant programs – opportunities for the submission of "unsolicited" research topics. This is far from a complete listing of NIH grant opportunities. To review current RFAs, RFPs and Program Announcements of the NIH, visit http://grants.nih.gov/grants/guide/index.html.

R01 – Traditional Research Project Grants. Next application due dates: June 5 and October 5, 2019.
URL: https://grants.nih.gov/grants/guide/pa-files/PA-18-484.html
Up to five years support may be requested. No maximum Direct Costs figure has been established.

R03 – Small Research Grants. Next application due dates: June 16 and October 16, 2019.
URL: https://grants.nih.gov/grants/guide/pa-files/PA-18-488.html
Supports different types of projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. Provides $100,000 in direct costs for a project period of up to two-years.

R15 - Academic Research Enhancement Award (AREA). Next application due dates: June 25 and Ocotber 25, 2019.
URL: https://grants.nih.gov/grants/funding/area/area.htm
Applicants may request up to $300,000 in direct costs for an award period of 1, 2, or 3 years.

R21 – Exploratory/Developmental Research Grants. Next application due dates: June 16 and October 16, 2019.
URL: https://grants.nih.gov/grants/guide/pa-files/PA-18-489.html
Support for early conceptual stages of research projects. Direct costs are limited to $275,000 over a two-year period.

Developing/Writing a Successful Grant Proposal: Planning Discussions, April 24 & 25

Because time is such an important ingredient in successful grant seeking, summer is a most valued time of year for consistently successful grant applicants from academe.

On Wednesday, April 24 and Thursday, April 25, at Common Hour, the Office of Research & Sponsored Programs (ORSP) will host a discussion on approaches one might consider taking on the challenge of grant seeking during summer 2019.

So much good can come from success in grant seeking. Goals established in our College's Strategic Plan beseech efforts to obtain external grant support. In the case of research grant awards, you personally, your Department, and the College will all benefit greatly from the prestige that accompanies the accomplishment. Grants can provide you the ability to be a more active professional, practicing your discipline at a more advanced level. A grant can provide you summer salary, professional travel opportunities, equipment, and other benefits. Your students will profit too, especially those students you might select to employ from your grant -- employment opportunities that will make a student stand out from the competition following graduation. Is there a late-summer or fall 2019 grant competition you would like to pursue? *Here is our plan…*

We believe a promising formula for success can be found in adopting some of the practices and recommendations of David G. Bauer, whose most recent book, *The Grants Coaching Handbook*, was published in 2017. Bauer is also the author of *The 'How To' Grants Manual*, now in its 8th Edition. Bauer stresses pre-proposal contact with prospective grantors – something that cannot be successfully conducted in the case of last-minute proposal preparation, what Bauer calls "beat the clock" grant applications. ORSP can help you prepare for constructive conversations with appropriate agency personnel. Program officers want to know that you are aware of the work they have already funded, and of the people overseeing these projects. ORSP has the experience and knowledge to help assure that you are well informed for pre-proposal discussions.

Bauer recognizes the value an ORSP can add to proposal preparation, referring to such offices as your grant-seeking *consultants.* Bauer shares, with regret, an observation that too often such offices must work backwards from deadlines, giving last minute proposals priority over proposals whose deadlines are weeks away. When given the opportunity, the ORSP can add value to proposal development; that is our reason for scheduling these discussion sessions.

If you have a grant idea in mind, we hope you will join our discussion on implementing the Bauer methodology. Start planning now, in April, when together we can map out an informed and effective grant-seeking strategy for summer 2019. By starting now, you can take fuller advantage of an experienced resource available to you, the ORSP. For further information, please give a call (ext. 3215), drop a line (murphyt@oldwestbury.edu) or visit www.oldwestbury.edu/research.

Observations from David G. Bauer, author of The Grants Coaching Handbook

- *Last minute, beat-the-clock proposals experience the highest rate of failure…* <u>*For your institution to increase its success rate*</u> *and improve its effectiveness in the (Federal grants) marketplace you must move away from reactive grants systems that are plagued by last minute proposal preparation and* <u>*employ a proactive grants program that is proven to achieve 50 percent success rates and higher.*</u>

- *In a proactive system, grant seekers start the proposal development process early and put in small amounts of time throughout the process. This enables the grant seeker to conduct research on his or her potential grantor, tailor a proposal based on his or her research findings, and employ quality assurance techniques to increase his or her chance of success.*

- *A key component of any successful grants coaching program is preproposal contact with potential grantors.* <u>*Studies document that contact made before a proposal is constructed doubles the proposal's success rate.*</u>

Thomas O. Murphy
Director, Office of Research
and Sponsored Programs

Dr. Patrick O'Sullivan
Provost and Senior Vice President
for Academic Affairs

Arthur H. Angst, Jr.
Research Foundation Campus Operations Manager
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