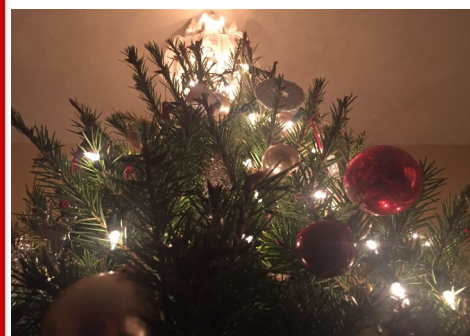# GET YOUR G.A.L!

O.R.S.P

Grant Announcement Letter

WELCOME...

...to the December edition of the Office of Research and Sponsored Programs' monthly newsletter. As you may or may not know, the Grant Announcement Letter, or G.A.L for short, is a monthly offering of new and upcoming grant opportunities that may be of interest to you or your department.

This month's G.A.L consists of grant opportunities across several different fields, including funding from The National Science Foundation (NSF), The National institute of Health (NIH), The United States Department of Agriculture (USDA), and The National Endowment for the Humanities (NEH).

What Grants Are Available?

There are more grant opportunities available in your field than you may think! Please contact our office with any and all questions about interests or concerns pertaining to your field and we will work together to facilitate these great opportunities.

Do Not See Opportunities in Your Field?

This newsletter is only the tip of the iceberg. There are plenty of funding opportunities waiting to be utilized. Simply visit the "Funding Opportunities" section of our website or contact us with keywords that we can then use to specifically find the right grant for you.

DECEMBER

Pathways into the earth, ocean, polar, and atmospheric and geospace sciences (NSF)

Scope:

To accelerate improvements in the quality and effectiveness of undergraduate education in all science, technology, engineering and mathematics fields, including the learning, social, behavioral and economic sciences.

Deadline:

Letters of Intent, Dec. 20, 2019; proposals, Feb. 14, 2020.

Funds:

$6 million total.

Areas:

There are three new funding tracks that focus on Geoscience Learning Ecosystems: GEOPAths—Informal Networks: collaborative projects in this track will support geoscience learning and experiences in informal settings for teachers, pre-college (e.g., upper-level high school) students and early undergraduates in the geosciences; GEOPAths—Undergraduate Preparation: projects in this track will engage pre-college and undergraduate students in extracurricular experiences and training in the geosciences with a focus on service learning and workplace skill-building; and GEOPAths—Graduate Opportunities: projects in this track will improve research and career-related pathways into the geosciences for undergraduate and graduate students through institutional collaborations with a focus on service learning and workplace skill-building.

www.grants.gov; FON# 20-516

Opportunities in chemical, bioengineering, environmental and transport systems (NSF)

Scope:

To support activities that confront vexing environmental engineering and sustainability problems by uncovering and incorporating fundamental knowledge to design new processes, materials and devices from a systems-level perspective.

Deadline:

April 30, 2020.

Funds:

$8.5 million for up to seven awards.

Areas:

The program has identified five critical challenges to address as a society: sustainably supply food, water and energy; curb climate change and adapt to its impacts; design a future without pollution and waste; create efficient, healthy and resilient cities; and foster informed decisions and actions. Projects should be compelling and reflect sustained, coordinated efforts from interdisciplinary research teams. A key objective of the solicitation is to encourage conversations and robust collaborations amongst the chemical process, transport phenomena, bioengineering, and environmental and sustainability research communities such that unanticipated solutions may arise.

www.grants.gov; FON# 20-517

DECEMBER

Software for data-driven models of space weather with quantified uncertainties (NSF)

Scope:

A pilot program to transform development of predictive modeling of the coupled evolution of the magnetized solar atmosphere and the solar wind, and their interaction with the Earth's magnetosphere and upper atmosphere.

Deadline:

March 20, 2020.

Funds:

$12 million total for four to eight awards, ranging from $1.5 million to $3 million.

Areas:

Proposing teams will seek to develop methodology, computationally scalable algorithms and open-source software elements for one or more of the following: on-the-fly reduction and assimilation of observational data from diverse and distributed sources into physics-based numerical models; evaluation and propagation of uncertainties associated with the data assimilation and numerical solutions of the partial differential equations in the presence of large numbers of model parameters, as well as the model uncertainty of a reduced physical description; and integrated modeling of the multiphysics and spatially and temporally multiscale space plasma phenomena with uncertainty quantification and efficient implementation on heterogeneous computer architectures.

www.grants.gov; FON# 20-519

Building capacity in STEM education research (NSF)

Scope:

To support projects that build individuals' capacity to carry out high-quality science, technology, engineering and mathematics (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.

Deadline:

Feb. 28, 2020.

Funds:

$12 million total.

Areas:

Funding supports three types of projects designed to build individuals' capacity to carry out high-quality fundamental education research in STEM: Individual Investigator Development in STEM Education Research—to support individual investigators who have (1) articulated a fundamental research project appropriate for the ECR program, (2) identified specific capabilities the investigator needs to more fully develop in order to conduct the research project and (3) detailed a professional development plan that will enable the investigator to complete a pilot project within the specified time period; Institutes in Research Methods—to support institutes that provide participants with training in up-to-date applications of computational, quantitative, qualitative and evaluative research methods useful to STEM education researchers; and proposals that seek to conduct well-focused conferences and workshops relevant to the competition goals.

www.grants.gov; FON# 20-521

DECEMBER

Future of Work at the Human-Technology Frontier: Core Research (NSF)

Scope:

To support convergent research to understand and develop the human-technology partnership, design new technologies to augment human performance, illuminate the emerging sociotechnological landscape, understand the risks and benefits of new technologies, understand and influence the impact of artificial intelligence on workers and work, and foster lifelong and pervasive learning.

Deadline:

March 9, 2020.

Funds:

$30 million total for up to 15 Planning Grant awards and up to 15 Research Grant awards.

Areas:

Proposals for a research grant must focus on advancing fundamental understanding of future work, and potential improvements to work, workplaces, workforce preparation or work outcomes for workers and society. It must be convergent research that addresses the human and societal dimensions as well as the technological innovation and their potential impact on future work.

www.grants.gov; FON# 20-515

Undergraduate Research Education Experiences (NIH)

Scope:

To support research education activities in the mission areas of the NIH.

Deadline:

Letters of Intent, Jan. 19, 2020; proposals, Jan. 21, 2020.

Funds:

$1 million total in FY2020 for three to four awards.

Areas:

To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on: Research Experiences-the two-year program must include part-time authentic neuroscience research experiences in extramurally-funded laboratories during the academic year at the home institution or one of the partnering institutions; Mentoring Activities-programs must provide students with outstanding mentoring and education in other critical skills such as leadership, grant and manuscript writing, and time management; and Courses for Skills Development-courses should be integrated across the partnering institutions and uniquely designed to increase undergraduate students' interest in and preparation to enter Ph.D. degree programs in the neurosciences.

www.grants.gov; FON# RFA-NS-20-015

DECEMBER

Wood Innovations Funding Opportunity (USDA)

Scope:

To substantially expand and accelerate wood energy and wood products markets throughout the United States to support forest management needs on National Forest System and other forest lands.

Deadline:

Jan. 15, 2020.

Funds:

$8 million total for up to 30 awards ranging from $10,000 to $250,000.

Areas:

Priorities include reducing hazardous fuels and improve forest health on National Forest System and other forestlands, reducing costs of forest management on all land types, and promoting economic and environmental health of communities.

www.grants.gov; FON# USDA-FS-WERC-2020

Organic Agriculture Research and Extension Initiative (USDA)

Scope:

For the Organic Agriculture Research and Extension Initiative announcement to solve critical organic agriculture issues, priorities or problems through the integration of research, education and extension activities.

Deadline:

Jan. 30, 2020.

Funds:

$20 million total for awards of up to $2 million.

Areas:

priorities include but are not limited to: conducting advanced on-farm crop, livestock or integrated livestock-crop research and development that emphasize observation of, experimentation with and innovation for organic farms, including production, marketing and socioeconomic considerations; developing and demonstrating educational tools for Cooperative Extension personnel and other professionals who advise producers on organic practices; and strengthening organic crop propagation systems, including seed and transplant production and protection, and plant breeding for organic production conditions, with an emphasis on publicly available releases.

www.grants.gov; FON# USDA-NIFA-ICGP-007012

DECEMBER

Landmarks of American History and Culture (NEH)

Scope:

To support a series of one-week workshops for K-12 educators across the nation to enhance and strengthen humanities teaching at the K-12 level.

Deadline:

Optional Drafts are due Jan. 2, 2020; Feb. 13, 2020.

Funds:

$3 million total for 16 awards of up to $170,000.

Areas:

Each workshop must accommodate thirty-six participants (NEH Summer Scholars) and must be offered twice during the summer (for a total of seventy-two participants). The content, presenters, site visits, activities, and readings should be substantially the same in each week. Workshops may be hosted by institutions such as community colleges, universities, four-year colleges, learned societies, libraries or other repositories, centers for advanced study, cultural organizations, professional associations, and schools or school systems.

www.grants.gov; FON# 20200213-BH

Public Scholars (NEH)

Scope:

To support the creation of well-researched nonfiction books in the humanities written for the broad public.

Deadline:

Feb. 5, 2020.

Funds:

$1.5 million total for up to 25 awards.

Areas:

Funding provides grants to individual authors for research, writing, travel, and other activities leading to publication. Writers with or without an academic affiliation may apply, and no advanced degree is required. The program is intended to: encourage non-academic writers to deepen their engagement with the humanities by strengthening the research underlying their books; and encourage academic writers in the humanities to communicate the significance of their research to the broadest possible range of readers.

www.grants.gov; FON# 20200205-FZ

NSF DEADLINES

Quantum Leap Challenge Institutes (QLCI) N NSF-wide	19-559	Full Proposal: January 2, 2020
Addressing Systems Challenges through Engineering Teams (ASCENT)	20-511	Letter of Intent: January 7, 2020
Integrative Strategies for Understanding Neural and Cognitive Systems (NCS) C Crosscutting	18-533	Letter of Intent: January 8, 2020
Partnerships for Innovation (PFI) N NSF-wide	19-506	Full Proposal: January 8, 2020
CISE Community Research Infrastructure (CCRI)	19-512	Full Proposal: January 9, 2020
Cyberlearning for Work at the Human-Technology Frontier	17-598	Full Proposal: January 13, 2020
Accountable Institutions and Behavior (AIB)		Full Proposal: January 15, 2020
ADVANCE: Organizational Change for Gender Equity in STEM Academic Professions (ADVANCE) N NSF-wide	19-552	Full Proposal: January 15, 2020
Cultural Anthropology Program - Doctoral Dissertation Research Improvement Grants (CA-DDRIG)	19-560	Full Proposal: January 15, 2020
Cultural Anthropology Program Senior Research Awards (CA-SR)	18-560	Full Proposal: January 15, 2020
Developmental Sciences (DS)		Full Proposal: January 15, 2020
Law & Science (LS)	19-612	Full Proposal: January 15, 2020
Linguistics		Full Proposal: January 15, 2020
Linguistics Program - Doctoral Dissertation Research Improvement Awards (Ling-DDRI)	14-551	Full Proposal: January 15, 2020
Political Science (PS)		Full Proposal: January 15, 2020
Research on the Science and Technology Enterprise: Statistics and Surveys - R&D, U.S. S&T Competitiveness, STEM Education, S&T Workforce	15-521	Full Proposal: January 15, 2020
Security and Preparedness (SAP)		Full Proposal: January 15, 2020
Social Psychology		Full Proposal: January 15, 2020

Sociology		Full Proposal: January 15, 2020
The Science of Learning and Augmented Intelligence Program (SL)		Full Proposal: January 15, 2020
Training-based Workforce Development for Advanced Cyberinfrastructure (CyberTraining) C Crosscutting	19-524	Full Proposal: January 15, 2020
Macrosystems Biology and NEON-Enabled Science (MSB-NES)	20-506	Full Proposal: January 16, 2020
Decision, Risk and Management Sciences (DRMS)		Full Proposal: January 17, 2020
Understanding the Rules of Life: Microbiome Theory and Mechanisms (URoL:MTM) N NSF-wide	20-513	Letter of Intent: January 17, 2020
Biological Anthropology		Full Proposal: January 21, 2020
Biological Anthropology Program - Doctoral Dissertation Research Improvement Grants (BA-DDRIG)	18-504	Full Proposal: January 21, 2020
Campus Cyberinfrastructure (CC*)	20-507	Full Proposal: January 21, 2020
Economics		Full Proposal: January 21, 2020
Major Research Instrumentation Program: (MRI) N NSF-wide	18-513	Full Proposal: January 21, 2020
Research Coordination Networks in Undergraduate Biology Education (RCN-UBE)	18-510	Full Proposal: January 21, 2020
Formal Methods in the Field (FMitF)	19-613	Full Proposal: January 22, 2020
EPSCoR Research Infrastructure Improvement Program: Track-2 Focused EPSCoR Collaborations (RII Track-2 FEC) N NSF-wide	20-504	Full Proposal: January 24, 2020
Science and Technology Centers: Integrative Partnerships N NSF-wide	19-567	Full Proposal: January 27, 2020
National Artificial Intelligence (AI) Research Institutes N NSF-wideC Crosscutting	20-503	Full Proposal: January 28, 2020
Methodology, Measurement, and Statistics (MMS)	19-575	Full Proposal: January 30, 2020
National Artificial Intelligence (AI) Research Institutes N NSF-wideC Crosscutting	20-503	Full Proposal: January 30, 2020
Physics Frontiers Centers (PFC)	19-578	Full Proposal: January 30, 2020
Accelerating Research through International Network-to-Network Collaborations (AccelNet) N NSF-wide	19-501	Full Proposal: January 31, 2020
Louis Stokes Alliances for Minority Participation	17-579	Full Proposal: January 31, 2020

NIH DEADLINES

Activity Codes	Program Description	Cycle I Due Date	Cycle II Due Date	Cycle III Due Date
P Series All - new, renewal, resubmission, revisions	**Program Project Grants and Center Grants** NOTE: Applicants should check with the relevant Institute or Center (IC), since some do not accept P series applications for all three receipt/review/award cycles.	January 25	May 25	September 25
R18, U18 R25 All - new, renewal, resubmission, revision	**Research Demonstration Education**	January 25	May 25	September 25
T Series D Series All - new, renewal, resubmission, revision	**Institutional National Research Service Award Grants** **Other Training Grants** NOTE: Applicants should check with the relevant Institute or Center (IC), since some do not accept T series applications for all three receipt/review/award cycles. Applicants should refer to the IC Table of Contacts for information for each IC's scientific/research contact for the NRSA T32 program.	January 25	May 25	September 25
C06/UC6 All - new, renewal, resubmission, revision	**Construction Grants**	January 25	May 25	September 25
G07, G08, G11, G12, G13, G20, R24, S06, S11, S21, S22, SC1, SC2, SC3, UG1, U10, U19, U24, U2C, U41, U42, U45, U54, U56 All - new, renewal, resubmission, revision	**Other Activity Codes**	January 25	May 25	September 25
R01 new	**Research Grants**	February 5	June 5	October 5
U01 new	**Research Grants - Cooperative Agreements**	February 5	June 5	October 5
K series new	**Research Career Development**	February 12	June 12	October 12

Activity Codes	Program Description	Cycle I Due Date	Cycle II Due Date	Cycle III Due Date
R03, R21, R33, R21/R33, R34, R36, U34, UH2, UH3, UH2/UH3 new	Other Research Grants and Cooperative Agreements	February 16	June 16	October 16
R15 All - new, renewal, resubmission, revision	Academic Research Enhancement Award (AREA)	February 25	June 25	October 25
R01 renewal, resubmission, revision	Research Grants	March 5	July 5	November 5
U01 renewal, resubmission, revision	Research Grants - Cooperative Agreements	March 5	July 5	November 5
K series renewal, resubmission, revision	Research Career Development	March 12	July 12	November 12
R03, R21, R33, R21/R33, R34, R36, U34, UH2, UH3, UH2/UH3 renewal, resubmission, revision	Other Research Grants and Cooperative Agreements	March 16	July 16	November 16
F Series Fellowships (including F31 Diversity – NOT-OD-17-029) new, renewal, resubmission	**Individual** National Research Service Awards (Standard) (see NRSA Training Page)	April 8	August 8	December 8
R13, U13 All - new, renewal, resubmission, revision	Conference Grants and Conference Cooperative Agreements	April 12	August 12	December 12
R41, R42 R43, R44, U43, U44, All - new, renewal, resubmission, revision, AIDS and AIDS-related SB1, UB1	**Small Business Technology Transfer (STTR)* Small Business Innovation Research (SBIR)*** **Commercialization Readiness Pilot (CRP) Program***	September 5	January 5	April 5

Activity Codes	Program Description	Cycle I Due Date	Cycle II Due Date	Cycle III Due Date
All Activity Codes Cited Above new, renewal, resubmission, revision	**AIDS and AIDS-Related Applications** *Effective. Sept 5, 2015 - N/A for SBIR/STTR Applications using Standard Due Dates NOTE: See Key Dates section of funding opportunity announcement to determine if AIDS dates apply.	May 7	September 7	January 7

Activity Codes	Program Description	Cycle I Due Date	Cycle II Due Date	Cycle III Due Date

Review and Award Cycles

	Cycle I	Cycle II	Cycle III
Application Due Dates	January 25 - May 7	May 25 - September 7	September 25 - January 7
Scientific Merit Review	June - July	October - November	February - March
Advisory Council Round	August or October *	January	May
Earliest Project Start Date	September or December *	April	July

*SBIR/STTR, CRP Only	Cycle I	Cycle II	Cycle III
Application Due Dates	September 5	January 5	April 5
Scientific Merit Review	October - November	February - March	June-July
Advisory Council Round	January	May	August
Earliest Project Start Date	April	July	September or December*