

Research Development & Grant Writing Newsletter

Issue for June 15, 2024

Our Co-Publisher & Editors

Mike Cronan

[Mike Cronan](#), PE, has 23 years of experience developing and writing successful team proposals at Texas A&M University. He was named a Texas A&M University System Regents Fellow (2001-2010) for developing and writing A&M System-wide grants funded at over \$100 million by NSF and other funding agencies. He developed and directed two research development and grant writing offices, one for Texas A&M's VPR and the other for the Texas A&M Engineering Experiment Station (15 research divisions state-wide), including the Texas A&M College of Engineering.

Lucy Deckard

[Lucy Deckard](#) (BS/MS Materials) worked in research development and grant writing at Texas A&M University and across the A&M System for nine years. She directed A&M's New Faculty Research Initiative (2004-09), helping junior faculty System-wide jumpstart their research careers with federal agency funding. She served as associate director of two research development and grant writing offices. She founded [ARFS](#) in 2010.

Katherine E. Kelly

[Katherine E. Kelly](#), Ph.D., a retired English professor from Texas A&M University, is the author of several books and numerous articles supported by research grants and served as a contributing editor for an academic journal for five years. She provides ARFS clients editorial services on proposals, journal articles, and manuscripts and presents seminars on grant writing and funding in the humanities.

About Us

Research Development & Grant Writing News © has been published monthly since 2010 for faculty and research professionals by [Academic Research Funding Strategies, LLC](#)

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[Mike Cronan](#) & [Lucy Deckard](#)

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Newsletter Design

Emily Creasy, head of [ELC Design](#), is our [graphics partner](#). In addition to redesigning our newsletter, she provides graphics services on proposals, presentations, books and papers. [Subscribe Online](#)

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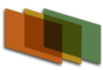


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!! Notice to Subscribers !!

!!! Annual subscriptions to Research Development & Grant Writing News expire with THIS June 15 issue. To resubscribe for 2024-2025 (July 15-June 15) !!!
please [GO HERE](#).

<https://academicresearchgrants.com/newsletter>

[Faculty Guide to Writing Research Grants:
Strategies for Funding Success](#)

By Mike Cronan, Lucy Deckard and Katherine Kelly, PhD

now available on Amazon Books

[Father Marquette's Trail of Bones](#)

A Sheriff Joseph Francois LaVake Mystery

a novel by Mike Cronan, *now available on Amazon Books*

Other Resources & Services

Lucy Deckard, BS/MS

For Webinars & Workshops

[Contact Here](#)

Katherine E. Kelly, PhD

Proposal Editing & Webinars in Humanities

[Contact Here](#)

ELC Designs

Graphics services for proposals, presentations, books and papers.

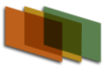
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2nd Edition New Faculty Guide to Competing for Research Funding! [Order Here](#)

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Strategies for Planning, Developing, & Writing Large Team Grants [Order Here](#)



Topics of Interest URLs

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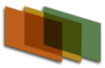
FY2024 Federal Research Budget/Funding Agency & Miscellaneous

User Note: URL links are active on date of publication, but if a URL link breaks or changes a Google search on the key words or titles, as below, will typically take you to a working link.

- [Women and Justice](#)
- [Indigenous Intel \(Spring 2024\)](#)
- [News Release: Innovation, Research and Development Strategic Plan Prepares DHS for Future Homeland Security Challenges](#)
- [ARPA-E Announces \\$150 Million to Develop Systems that Provide Abundant Primary Energy, Enable Intermodal Energy Transport, and Sustainably Meet Demand for Other Materials](#)
- [The Institute of Education Sciences \(IES\) will consider unsolicited applications for research, evaluation, and statistics projects](#)
- [The NSF CAREER webinar slides are available HERE](#)

National Science Foundation & Related

- [Training in Responsible Conduct of Research - A Reminder of the NSF Requirement](#)
- [Fostering Integrity in Research](#)
- [NSF Responsible Conduct of Research](#)
- [New NSF Graduate Research Fellowship Program Administrative Guide now available.](#)
- [Biodiversity on a Changing Planet \(BoCP\)](#)
- [Announcement of Topic for the Fiscal Year 2025 and 2026 EPSCoR Research Improvement Infrastructure-Focused EPSCoR Collaborations \(RII-FEC\) Program | NSF 24-091](#)
- [Gen-4 Engineering Research Centers \(ERC\) | NSF 24-576](#)
- [EPSCoR Centers of Research Excellence in Science and Technology \(EPSCoR CREST Centers\) | NSF 24-575](#)
- [Research and Development: U.S. Trends and International Comparisons](#)
- [Dear Colleague Letter: Announcement of Topic for the Fiscal Year 2025 and 2026 EPSCoR Research Improvement Infrastructure-Focused EPSCoR Collaborations \(RII-FEC\) Program](#)



- [Dear Colleague Letter: Planning Proposals for Centers of Research Excellence in Science and Technology \(CREST Centers\) in Computer and Information Science and Engineering \(CISE\)](#)
- [Dear Colleague Letter: NSF Scholarships in Science, Technology, Engineering, and Mathematics Program \(S-STEM\) Scholarship Supplements for Advanced Technological Education \(ATE\) Recipients | NSF 24-094](#)
- [Dear Colleague Letter: Planning Proposals for Large-scale Projects in Computer and Information Science and Engineering \(CISE\) in Eligible EPSCoR Jurisdictions | NSF 24-092](#)
- [Dear Colleague Letter: Announcement of Topic for the Fiscal Year 2025 and 2026 EPSCoR Research Improvement Infrastructure-Focused EPSCoR Collaborations \(RII-FEC\) Program | NSF 24-091](#)
- [Dear Colleague Letter: Planning Proposals for the NSF Established Program to Stimulate Competitive Research \(EPSCoR\) Research Incubators for STEM Excellence \(E-RISE\) and Collaborations for Optimizing Research Ecosystems \(E-CORE\) Programs](#)
- [Hispanic Serving Institutions: Equitable Transformation in STEM Education | NSF 24-578](#)
- [Computer and Information Science and Engineering \(CISE\): Core Programs, Large Projects](#)
- [Dear Colleague Letter: NSF-NIH Pathfinder Supplements on Quantum Sensors for Biomedical Science](#)
- [National STEM Teacher Corps Pilot Program | NSF 24-577](#)
- [Centers for Research and Innovation in Science, the Environment and Society \(CRISES\)](#)
- [National STEM Teacher Corps Pilot Program | NSF 24-577](#)
- [NSF Small Business Innovation Research / Small Business Technology Transfer Phase II Programs \(SBIR/STTR Phase II\) | NSF 24-580](#)
- [NSF Small Business Innovation Research / Small Business Technology Transfer Phase I Programs \(SBIR/STTR Phase I\) | NSF 24-579](#)

NIH Health Sciences & Related

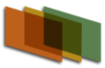
- [Changes Coming to NIH Applications and Peer Review in January 2025](#)
- [Simplified Review Framework for Most Research Project Grants \(RPGs\)](#)
- [Revisions to the NIH Fellowship Application and Review Process](#)
- [Updates to Training Grant Applications](#)
- [NIH's Webinars page](#)
- [Updated Application Forms and Instructions \(FORMS-I\)](#)
- [Common Forms for Biographical Sketch and Current and Pending \(Other\) Support](#)



- [Overview of Grant Application and Review Changes for Due Dates on or after January 25, 2025: NOT-OD-24-084](#)
- [Video overview of changes coming in 2025 \(25 minutes\)](#)
- [Drop-in slides on changes coming in 2025 \(PowerPoint\)](#)
- [Open Mike blog on changes coming in 2025 \(April 4, 2024\)](#)
- [NIAID Research Agenda for 2024 H5N1 Influenza - May 2024](#)
- [Announcing Updates to NIH Institutional Training Grant Applications and Required Data Tables](#)
- [Making Advanced Research Computing More Accessible With NIH Cloud Lab](#)
- [FDA-NIH Want Your Input on a New Resource for Terminology in Clinical Research](#)
- [Age of Principal Investigators at the Time of First R01-Equivalent Remains Level with Recent Years in FY 2023](#)
- [Reminders, Updates, and Some Data for Participant Inclusion](#)
- [Updating NIH Minority Health and Health Disparities Categories to Improve Accuracy and Transparency](#)
- [Blueprint for the Use of Social and Behavioral Science to Advance Evidence-Based Policymaking](#)
- [NCCIH Strategic Plan FY 2021-2025](#)
- [Research Across Complementary and Integrative Health Institutions \(REACH\) Virtual Resource Centers \(U24 Clinical Trial Not Allowed\)](#)
- [Notice to Rescind NOT-AG-11-001, "NIA implementation of NIH Policy on Acceptance for Review of Applications Requesting \\$500,000 or More in Direct Costs in a Single Year"](#)
- [Notice of Special Interest \(NOSI\): Conferences and Scientific Meetings in Cancer Biology](#)
- [Marking a Milestone: The Modernized ClinicalTrials.gov Becomes the Singular Website Experience](#)

USDA/NIFA & Related

- [NIFA Grants Process](#)
- [Special Supplemental Nutrition Program for Women, Infants, and Children Workforce - Evaluation and Techni Assistance Center](#)
- [June 25, 6 p.m. EDT: Live FAQ Session: Rapid Response to Extreme Weather Events Across Food and Agriculture Systems](#)
- [June 27, 2 p.m. EDT: Learn How to Write a Strong USDA SBIR/STTR Application](#)
- [July 1: Special Supplemental Nutrition Program for Women, Infants, and Children Workforce - Evaluation and Technical Assistance Center](#)
- [July 1: Special Supplemental Nutrition Program for Women, Infants, and Children Workforce - Implementation Projects](#)



National Academies and Other Scientific Associations

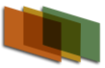
- [These crows may count in a way similar to human toddlers](#)
- [2024 Climate Crossroads Summit](#)

Miscellaneous Federal Agency and Foundation News & Funding

- [Fiscal Year 2024 Regional Catastrophic Preparedness Grant Program](#)
- [LRBAA 18-01 DHS Announcement extended until June 30, 2024](#)
- [Fiscal Year 2024 Pre-Disaster Mitigation Grant Program](#)
- [Competition Process EPA Webinar](#)
- [Institute of Education Sciences \(IES\): National Center for Education Research \(NCER\): Education Research, Assistance Listing Number \(ALN\) 84.305A](#)
- [Institute of Education Sciences \(IES\): National Center for Education Research \(NCER\): Statistical and Research Methodology, Assistance Listing Number \(ALN\) 84.305D](#)
- [Institute of Education Sciences \(IES\): National Center for Special Education Research \(NCSE\): Special Education Research, Assistance Listing Number \(ALN\) 84.324A](#)
- [Institute of Education Sciences \(IES\): National Center for Special Education Research \(NCSE\): Research Training Programs in Special Education, \(ALN\) 84.324B](#)
- [OVC FY24 Emergency and Transitional Pet Shelter and Housing Assistance Grant Program](#)
- [Fiscal Year 2024 Building Partner Capacity and Promoting Resiliency and Equity under Clean Water Act, Wetlands, Nonpoint Source, Monitoring, Assessment and Listing Programs](#)

Federal Agency Research Funding Links

- AFRL: <https://www.afrl.af.mil/AFOSR/>
- ARL: <https://www.arl.army.mil/>
- CDMRP: <https://cdmrp.health.mil/>
- DARPA: <https://www.darpa.mil/work-with-us/opportunities>
- IARPA: <https://www.iarpa.gov/>
- ONR: <https://www.onr.navy.mil/en/work-with-us/funding-opportunities>
- DHS: <https://www.dhs.gov/how-do-i/find-and-apply-grants>
- DOJ: <https://www.justice.gov/grants>



- NASA: <https://nspires.nasaprs.com/external/>
- NEH: <https://www.neh.gov/>
- NEA: <https://www.arts.gov/>
- NIH: <https://grants.nih.gov/funding/index.htm>
- HHS: <http://www.hhs.gov/asrt/og/aboutog/grantsnet.html>
- NSF: <https://www.nsf.gov/funding/index.jsp>
- DOC: <https://www.commerce.gov/work-with-us/grants-and-contract-opportunities>
- NIST: <https://www.nist.gov/oaam/grants-management-division/nist-nofo-information>
- NOAA: <https://www.noaa.gov/organization/acquisition-grants>
- DoED: <https://www2.ed.gov/fund/grants-apply.html?src=go>
- DOE/OS: <https://www.energy.gov/science/office-science-funding/office-science-funding-opportunities>
- EERE: <https://www.energy.gov/eere/funding/eere-funding>
- DOE: <https://www.energy.gov/energy-economy/funding-financing>
- USDA: <https://www.nal.usda.gov/waic/funding>
- NIFA: <https://www.nifa.usda.gov/grants>
- EPA: <https://www.epa.gov/research-grants/research-funding-opportunities>
- NCER: <http://epa.gov/ncer/listserv/>
- FBO/BETA SAM: <https://fbohome.sam.gov/>
- Federal Register: <https://www.federalregister.gov/>
- Grants.gov: <https://www.grants.gov/web/grants/search-grants.html>
- CFDA: <https://www.investopedia.com/terms/c/catalog-of-federal-domestic-assistance-cfda.asp>
- [ARPA-E Funding Opportunity Announcements](#)



June 2024 Select List of Humanities, HSS, and Arts Opportunities & News

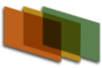
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by Katherine E. Kelly, PhD, Humanities Editor

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Check with organizations' websites for most current information

Due Date	Opportunity
7/10/2024 NEH Office of Digital Humanities, in partnership with the NEH Division of Research Programs and Division of Education Programs,	is accepting applications for the Fellowships Open Book Program . (For organizations.) This limited competition awards publishers a \$6,600 grant to release open access digital editions of books <u>whose underlying research was funded by an eligible NEH fellowship or grant</u> . (See NOFO section A. Program Description for a complete list of eligible programs.) Publishers must release e-books under a Creative Commons license, making those books free for anyone to download. The book could be a forthcoming title (to be open access upon first release) or it could be a book that was published, reissued, or printed in a new edition during or after calendar year 2017. https://www.neh.gov/grants/odh/FOBP
7/10/2024 NEH Public Humanities Projects (optional draft due date; final draft due 8/14/2024) (organizations)	This program supports projects that bring the ideas of the humanities to life for general audiences through public programming. Projects must engage humanities scholarship to analyze significant themes in disciplines such as history, literature, ethics, and art history. Projects are supported in three categories (Exhibitions, Historic Places, and Humanities Discussions), and at two funding levels (Planning and Implementation). Proposed projects may include complementary components: for example, a museum exhibition might be accompanied by a website or mobile app. https://www.neh.gov/grants/public/public-humanities-projects
7/15/2024 NSF The Social Psychology Program.	Proposals considered by the Social Psychology Program must communicate both the intellectual merit of the science and its broader societal impacts. Proposed research should carry strong potential for creating transformative advances in the basic understanding of human social behavior. Among the many research topics supported are social cognition, attitudes, social and cultural influence, stereotypes, motivation, decision making, group dynamics, aggression, close relationships, social and affective neuroscience, social psychophysiology, emotions, prosocial behavior, health-related behavior, and personality and individual differences. Proposals that develop new theories or methods for understanding social behavior are highly encouraged. Research samples should represent substantial ranges of ethnicities, socioeconomic backgrounds, cultures and other dimensions of human populations. Interdisciplinary, multidisciplinary and convergent



research approaches are encouraged.

<https://new.nsf.gov/funding/opportunities/social-psychology>

**7/15/2024 NSF
The Linguistics
Program.**

Supports basic science in the domain of human language. Research areas include syntax, semantics, morphology, phonetics and phonology. The program encourages projects that are interdisciplinary in methodological or theoretical perspective, and that address questions that cross disciplinary boundaries, such as (but not limited to): "What are the psychological processes involved in the production, perception, and comprehension of language?" "What are the computational properties of language and/or the language processor that make fluent production, incremental comprehension, or rapid learning possible?" "How do the acoustic and physiological properties of speech inform our theories of natural language and/or language processing?"

<https://new.nsf.gov/funding/opportunities/linguistics>

**7/16/2024
National
Endowment for
the Humanities
(NEH) Division of
Preservation and
Access**

(for Organizations) is accepting applications for the Humanities Collections and Reference Resources program. The program supports projects that facilitate the discovery and use of humanities collections for research, teaching, and public engagement. Primary activities include digitizing and describing collections, as well as creating reference resources to synthesize humanities information.

<https://www.neh.gov/grants/preservation/humanities-collections-and-reference-resources>

**7/16/2024 NEH
Humanities
Collections and
Reference
Resources
(organizations)**

This program supports projects that facilitate the discovery and use of humanities collections for research, teaching, and public engagement. Primary activities include digitizing and describing collections, as well as creating reference resources to synthesize humanities information. For more information, including sample narratives, go to:

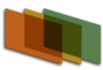
<https://www.neh.gov/grants/preservation/humanities-collections-and-reference-resources>

**7/30/2024
NSF Development
Sciences.**

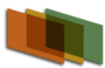
7/30/2024 NSF Development Sciences. Who May Submit Proposals: Proposals may only be submitted by the following: -Foreign organizations: For cooperative projects involving U.S. and foreign organizations, support will only be provided for the U.S. portion. -For-profit organizations: U.S.-based commercial organizations, including small businesses, with strong capabilities in scientific or engineering research or education and a passion for innovation. -Non-profit, non-academic organizations: Independent museums, observatories, research laboratories, professional societies and similar organizations located in the U.S. that are directly associated with educational or research activities. -Other Federal Agencies and Federally Funded Research and Development Centers (FFRDCs): Contact the appropriate program before preparing a proposal for submission. Developmental Sciences supports basic research that increases our understanding of perceptual, cognitive, linguistic, social, cultural, and



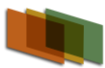
	<p>biological processes related to human development across the lifespan. Research supported by this program will add to our knowledge of the underlying developmental processes that support social, cognitive, and behavioral functioning, thereby illuminating ways for individuals to live productive lives as members of society.</p> <p>https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf24544</p>
<p>8/6/2024</p> <p>The NEH Office of Challenge Programs</p>	<p>is accepting applications for Graduate Education in the Humanities: A National Convening, a cooperative agreement to plan and host a national convening to evaluate the current state of graduate education in the humanities, to make recommendations for programs to prepare graduate students for a variety of humanities-related careers, and to develop a roadmap that articulates a strategic vision for graduate education in the humanities. The project will be funded through a combination of federal matching funds and related fundraising from non-federal third parties.</p> <p>https://www.neh.gov/program/graduate-education-humanities-national-convening</p>
<p>8/9/2024 (optional draft due; final draft 9/18/2024) NEH Climate Smart Humanities Organizations (organizations) .</p>	<p>Through the Climate Smart program, your humanities organization can undertake activities such as energy audits, risk assessments, and meetings with consultants. The resulting climate smart plan helps you establish goals and prioritize actions that reduce your organization’s impacts on the environment through mitigation and vulnerability from extreme events through adaptation. Together, mitigation and adaptation can inform a robust road map that addresses climate challenges, protects assets, and facilitates collaboration between internal and external stakeholders. Strategic planning for climate change is an essential part of sustaining humanities organizations’ operations and activities—becoming climate smart. Individual organizations can apply for themselves or lead a consortium of organizations collaborating on strategic climate smart planning. https://www.neh.gov/program/climate-smart-humanities-organizations-0</p>
<p>8/14/2024</p> <p>The NEH Division of Public Programs</p>	<p>is accepting applications for the Public Humanities Projects program. This program supports projects that bring the ideas and insights of the humanities to life for general audiences through in-person, hybrid, or virtual programming. Projects must engage humanities scholarship to analyze significant themes in disciplines such as history, literature, ethics, and art history. https://www.neh.gov/grants/public/public-humanities-projects</p>
<p>8/14/2024 NEH Graduate Education in the Humanities: a National Convening (organizations)</p>	<p>Under the direction of a steering committee and related working groups, the national convening will provide participants the opportunity to explore current challenges and share best practices; offer guidance for graduate programs, departments, and other interested stakeholders; and help develop a strategic vision for graduate education in the humanities. In addition, the recipient will publish and disseminate a report based on the findings of the steering committee, working groups, and national convening. The cooperative agreement will be awarded with federal matching funds.</p>



8/14/2024 NEH Fellowship Programs at Independent Research Institutions. (For governments and non-profits except institutions of higher education.)	<p>https://www.neh.gov/program/graduate-education-humanities-national-convening</p> <p>This program supports institutions that provide fellowships devoted to advanced study and research in the humanities in the United States and abroad, foster communities of intellectual exchange among participating scholars, and provide access to resources that might otherwise not be available to fellows. https://www.neh.gov/grants/research/fellowship-programs-independent-research-institutions</p>
8/14/2024 NEH Graduate Education in the Humanities: a National Convening (organizations)	<p>Under the direction of a steering committee and related working groups, the national convening will provide participants the opportunity to explore current challenges and share best practices; offer guidance for graduate programs, departments, and other interested stakeholders; and help develop a strategic vision for graduate education in the humanities. In addition, the recipient will publish and disseminate a report based on the findings of the steering committee, working groups, and national convening. The cooperative agreement will be awarded with federal matching funds. https://www.neh.gov/program/graduate-education-humanities-national-convening</p>
8/15/2024 NSF General Social Survey Competition.	<p>The GSS has provided data on contemporary American society since 1972, serving as a barometer of social change and trends in attitudes, behaviors and attributes of the United States adult population. Several innovations have been initiated over the past 15 years, most of which warrant continuation. Most significantly, the GSS has been exploring a substantial use of web mode while maintaining the integrity of the time series. The 2022 and 2024 surveys used web mode in various combinations with face-to-face administration for purposes of testing and comparison. A collaboration with the American National Election Studies (ANES) was initiated for the 2020 election and continued for the 2024 election. Other innovations are linkages with administrative data made possible by asking respondents for permission (since 2018) and use of post-stratification weights (since 2020). For more information, go to: https://new.nsf.gov/funding/opportunities/general-social-survey-competition</p>
8/28/2024 NEH Public Scholars	<p>Offers grants to individual authors for research, writing, travel, and other activities leading to the creation and publication of well-researched nonfiction books in the humanities written for the broad public. It encourages non-academic writers to deepen their engagement with the humanities by strengthening the research underlying their books, and it encourages</p>



Program (individuals)	academic writers in the humanities to communicate the significance of their research to the broadest possible range of readers. https://www.neh.gov/grants/research/public-scholar-program
September (TBA) ACLS Fellowships (individuals).	ACLS invites research proposals from scholars in all disciplines of the humanities and interpretive social sciences. ACLS will continue in the 2023-24 competition year to offer these fellowships solely to untenured scholars who have earned the PhD within eight years of the application deadline. ACLS welcomes applications from scholars without faculty appointments and scholars off the tenure track. ACLS invites applications from scholars pursuing research on topics grounded in any time period, world region, or humanistic methodology. https://www.acls.org/competitions/acls-fellowships/
9/5/2024 (anticipated) NEH Humanities Connections (organizations)	This program seeks to expand the role of the humanities in undergraduate education at two- and four-year institutions by encouraging partnerships between humanities faculty and their counterparts in other areas of study. Competitive proposals will explain how the proposed project expands the role of the humanities in the undergraduate curriculum at the applicant institution(s) through (a) a substantive and purposeful integration of the subject matter, approaches, and learning activities of two or more disciplines (with a minimum of one in and one outside of the humanities); (b) collaboration between faculty from two or more departments or schools (with a minimum of one in and one outside of the humanities); and (c) a curricular structure that your institution could sustain over the long term, including interdisciplinary minors or certificates; curricular pathways such as concentrations within majors or general education programs; and other models appropriate to the institution. This program includes two funding levels: Planning and Implementation. https://www.neh.gov/grants/education/humanities-connections
9/6/2024 National Institute for Health (NIH).	This Funding Opportunity Announcement (FOA) solicits applications for new Behavioral and Social Sciences Research (BSSR) predoctoral training programs that focus on innovative computational and/or data science analytic approaches and their incorporation into training for the future BSSR health research workforce. The vision of the Advanced Data Analytics for BSSR training program is to support the development of a cohort of specialized predoctoral candidates who will possess advanced competencies in data science analytics to apply to an increasingly complex landscape of behavioral and social health-related big data. This Notice of Funding Opportunity (NOFO) does not allow appointed Trainees to lead an independent clinical trial but does allow them to obtain research experience in a clinical trial led by a mentor or co-mentor. https://grants.nih.gov/grants/guide/rfa-files/RFA-OD-24-012.html



**9/7/2024 NIH
Research on
Biopsychosocial
Factors of Social
Connectedness
and Isolation on
Health, Wellbeing,
Illness, and
Recovery (R01
Clinical Trial
Required).**

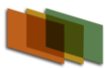
This funding opportunity announcement (FOA) invites research projects that seek to explain the underlying mechanisms, processes, and trajectories of social relationships and how these factors affect outcomes in human health, illness, recovery, and overall wellbeing. Types of projects submitted under this FOA include mechanistic studies that are classified as clinical trials. Mechanistic studies are defined as studies with the objective to understand the mechanism(s) of action of an intervention, a biological or behavioral process, or the pathophysiology of a disease/condition. Types of studies that should submit under this FOA include clinical trials that assess biomedical or behavioral outcomes in humans for the purpose of understanding the fundamental aspects of phenomena without specific application towards processes or products in mind. Researchers proposing basic science experimental studies involving human participants should consider this FOAs companion for basic experimental studies with humans, TEMP-14931, Research on Health, Wellbeing, Illness, and Recovery (R01 Basic Experimental Studies with Humans Required). Applications proposing studies that include, but are not limited to, model animal research or observational studies involving humans should submit under the companion FOA, TEMP-14934, "Research on Biopsychosocial Factors of Social Connectedness and Isolation on Health, Wellbeing, Illness, and Recovery (R01 Clinical Trials Not Allowed). <http://grants.nih.gov/grants/guide/pa-files/PAR-21-352.html>

**9/9/2024
NSF The Science of
Science:
Discovery,
Communication
and Impact
(SoS:DCI) program**

is designed to advance theory and knowledge about increasing the public value of scientific activity. Science of Science draws from multiple disciplinary and field perspectives to advance theory and research about scientific discovery, communication and impact. SoS:DCI welcomes proposals applying rigorous empirical research methods to advance theory and knowledge on: the social and structural mechanisms of scientific discovery; theories, frameworks, models and data that improve our understanding of scientific communication and outcomes; and the societal benefits of scientific activity and how science advances evidence-based policy making and the creation of public value. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505730

**9/9/2024 NSF
& NIH A Science of
Science Approach
to Analyzing and
Innovating the
Biomedical
Research
Enterprise.**

NSF promotes the progress of science by maintaining the general health of research and education across all fields of science and engineering. The Social, Behavioral and Economic Sciences (SBE) Directorate within NSF supports basic research on people and society. The SBE sciences focus on human behavior and social organizations; how social, economic, political, cultural and environmental forces affect the lives of people from birth to old age; and how people in turn shape those forces. This partnership will result in a portfolio of high-quality research to provide scientific analysis of important aspects of the biomedical research enterprise and efforts to foster a diverse, innovative, productive and efficient scientific workforce, from which future scientific leaders will emerge. Prospective investigators are strongly encouraged to discuss their proposals with the program officers before



submission to determine project relevance to the priorities of both SBE and NIGMS. Specific questions pertaining to this solicitation can also be directed to the SBE and NIGMS program officers.

<https://new.nsf.gov/funding/opportunities/science-science-approach-analyzing-innovating/nsf23-569/solicitation>

September 11, 2024.

NEH Dynamic Language Infrastructure. Offered in partnership with the National Science Foundation (NSF), this program supports individual scholars pursuing research on documentation and analysis of one or more endangered languages. DLI-DEL Fellowships provide recipients with time for fieldwork to record languages; digital archiving; transcription and annotation; linguistic and ethnographic analysis of findings; and preparation of print or digital research publications. Anticipated products may include, but are not limited to, lexicons, grammars, databases, peer-reviewed articles, and monographs. <https://www.neh.gov/program/dli-del-fellowships>

September 12, 2024.

NEH Dangers and Opportunities of Technology: Perspectives from the Humanities. This program supports research that examines technology and its relationship to society through the lens of the humanities, with a focus on the dangers and/or opportunities presented by technology, broadly defined. NEH is particularly interested in projects that examine the role of technology in shaping current social and cultural issues. This grant program is one of ten NEH programs that are part of NEH’s Humanities Perspectives on Artificial Intelligence initiative, which is encouraging research on the ethical, legal, and societal implications of AI. To learn more about the initiative, please see the NEH page about the AI initiative (see entry for Feb. 14, 2024 above). <https://www.neh.gov/program/dangers-and-opportunities-technology-perspectives-humanities>

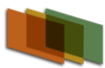
9/16/2024 NSF Dynamic Language Infrastructure - NEH Documenting Endangered Languages.

Senior research and conference proposal deadline. This funding partnership between NSF and NEH supports projects to develop and advance knowledge concerning dynamic language infrastructure in the context of endangered human languages – languages that are both understudied and at risk of falling out of use. This effort aims to exploit advances in human-language technology to build computational infrastructure for endangered language research. The program supports projects that contribute to data management and archiving, and to the development of the next generation of researchers. Funding can support fieldwork and other activities relevant to the digital recording, documentation and analysis, and archiving of endangered language data, including the preparation of lexicons, grammars, text samples, and databases.

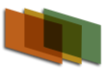
<https://www.neh.gov/grants/preservation/documenting-endangered-languages>

9/16/2024 (anticipated)

This joint, multi-year funding program with intends to advance scientific and scholarly knowledge about endangered human languages. Both agencies consider addressing the loss of linguistic and cultural knowledge to be a



<p>NEH & NSF Dynamic Language Infrastructure: Documenting Endangered Languages Senior Research Grants (organizations)</p>	<p>priority. For more information, go to https://new.nsf.gov/funding/opportunities/nsf-dynamic-language-infrastructure-neh or contact the Division of Preservation and Access Team at (202) 606-8570 or preservation@neh.gov.</p>
<p>9/17/2024 NEH Dialogues on the Experience of War (organizations)</p>	<p>program supports the study and discussion of important humanities sources about war and military service, in the belief that these sources can help U.S. military veterans and others think deeply and in dialogue about the issues that they raise. Dialogues discussion groups may include exclusively veterans (including a subset of veterans such as students or residents of a group facility); nonveteran students or members of the public; military-affiliated persons; or any mix of these groups. https://www.neh.gov/grants/education/dialogues-the-experience-war</p>
<p>9/18/2024 (anticipated) NEH Summer Stipends (individuals).</p>	<p>This program aims to stimulate new research in the humanities and its publications. The program works to accomplish this goal by: (a) Providing small awards to individuals pursuing advanced research that is of value to humanities scholars, general audiences, or both; (b) supporting projects at any stage of development, but especially early-stage research and late-stage writing in which small awards are most effective; and (c) funding a wide range of individuals, including independent scholars, community college faculty, and non-teaching staff at universities. https://www.neh.gov/grants/research/summer-stipends</p>
<p>September 25, 2024</p>	<p>NEH Archaeological and Ethnographic Field Research. This program provides funding to conduct empirical research in the United States or abroad in order to answer questions of importance to the humanities. While the dissemination of results through publications and other media is the ultimate expectation of these awards, the program supports field costs such as travel, accommodation, field staff and equipment, and salary replacement for the project director and collaborating scholars. Archaeological methods may include field survey and field-based remote sensing, documentation or visualization, and/or excavations in support of answering research questions, including but not limited to ancient studies, anthropology, art history, classical studies, regional studies, epigraphy, and other related disciplines. Ethnographic methods may include participant observation, surveys and interviews, and documentation or recording in pursuit of questions in anthropology, sociology, ethnolinguistics, oral history, ethnomusicology, performance studies, folklore studies, and related disciplines. https://www.neh.gov/program/archaeological-and-ethnographic-field-research</p>



October 1, 2024

NEH Spotlight on Humanities in Higher Education. This program supports the exploration and development of small projects that would benefit underserved populations through the teaching and study of the humanities at [small and medium-sized colleges and universities](#). NEH invites applications from two- and four-year institutions of higher education, as well as from nonprofit organizations and state, local, or Native American Tribal governments aiming to advance the humanities at these institutions. The program supports activities including but not limited to curricular or program development, expert consultations, speakers' series, student research, creation of teaching resources, and community engagement. Projects may benefit students, faculty, the institution or organization, and/or the community. The Spotlight program features a simplified application. You may request support at one of two levels: [Exploration or Development](#). For more Information: <https://www.neh.gov/program/spotlight-humanities-higher-education>

March 31, 2025

United States Military Academy Broad Agency Announcement (BAA) calling for basic research proposals. Eligible applicants under this BAA include institutions of higher education, nonprofit organizations, state and local governments, foreign organizations, foreign public entities, and for-profit organizations (i.e. large and small businesses) for scientific, technology, engineering, mathematics, education, policy development, ethics, culture, history, and economic analyses projects and proposals. Whitepapers and proposals will be evaluated only if they are for novel study and experimentation directed toward advancing the state of the art or increasing basic knowledge and understanding. Whitepapers and proposals focused on specific devices or components are beyond the scope of this BAA. There is no restriction on the place of performance for awards issued under this BAA. <https://www.grants.gov/search-results-detail/325932>

News & Notes

--**Of possible interest to Social Scientists:** (1) Centers for Research and Innovation in Science, the Environment and Society (CRISES), supports interdisciplinary research to create evidence-based solutions that strengthen human resilience, security and quality of life by addressing seemingly intractable challenges that confront society. (2)

Ecology and Evolution of Infectious Diseases (EEID), a multi-agency program that supports research on the ecological, evolutionary, organismal, and social drivers that influence the transmission dynamics of infectious diseases, including through international collaborations.

<https://www.nsf.gov/pubs/2023/nsf23107/nsf23107.jsp>

--**The American Council of Learned Societies (ACLS) on 8 April 2024** announced an expansion of the eligibility requirements for the ACLS Fellowship Program. Starting this coming academic year, in the 2024-25 competition, the program will accept applications from eligible scholars [across all career stages](#), from recent PhDs through senior scholars, working in every sector of the academy and beyond.



Funding Profile: Homeland Security Office of University Programs in Sci. & Tech.

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By Mike Cronan, PE, co-publisher

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Office of University Programs

The Department of Homeland Security (DHS) Science and Technology Directorate (S&T) Office of University Programs (OUP) streamlines access to the expertise of the **nation's colleges and universities by providing innovative research, development and education** to address pressing homeland security needs. The Office of **University Programs** offers a number of opportunities for engagement, including paid programs for **undergraduate and graduate students**, and requests for information and **proposals for college and university research programs**.

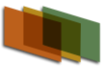
- **Undergraduate and graduate Students** -The [Homeland Security Professional Opportunities for Student Workforce to Experience Research \(HS-POWER\)](#) program aims to promote long-term relationships between students, researchers, DHS personnel, and research facilities to develop a diverse, educated, and skilled pool of STEM professionals. The program provides undergraduate and graduate students paid opportunities to participate in quality homeland security-related research experiences.
- **Undergraduate and graduate students and early-career faculty** - The [Summer Research Teams \(SRT\)](#) program places MSI teams made up of early-career faculty, undergraduate and graduate students for ten weeks to conduct full-time collaborative research at a DHS Center of Excellence.
- **College and Universities** - Throughout the year, many DHS Centers of Excellence issue requests for information and calls for proposals on topics of importance to the homeland security mission. Visit S&T's [Funding and Partnership Opportunities](#) web page to view current announcements.

DHS Long Range Broad Agency Announcement (LRBAA)

The **LRBAA** is a standing, open invitation to the scientific and technical communities to propose novel ideas that address DHS Components' highest priority operational needs. S&T's LRBAA 18-01 features new processes adopted by those we rely upon to meet our mission.

- Transparent, simplified announcement with more details
- Streamlined efficient submission procedures
- Notification of DHS interest in your research in 10 days
- Flexible communications including dialogue with topic program managers, a virtual pitch and submission of an optional video

The LRBAA Today webinar series is an opportunity for the innovation community to learn more about the Department's research challenge areas, specific to LRBAA topics, and how to use the LRBAA program to work with S&T. During each webinar, viewers will hear about the work currently



being pursued under the topic area and gain context for the solutions being sought. Access the full library of webinars [here](#). Innovation is the driving force behind the work of the DHS S&T and engaging with industry is essential to delivering the best technology solutions to DHS's end-users and operators. S&T's [Long Range Broad Agency Announcement](#) (LRBAA) is a **standing, open invitation to the scientific and technical communities to submit proposals for open topics that address priority homeland security needs**.

Finding Your Way Through LRBAA | [WATCH THE VIDEO!](#)

As part of S&T's Insights Outreach webinar series, DHS S&T's LRBAA Program Manager and DHS office Topic Managers hosted a discussion about the release of new topics and how to use the LRBAA Program to work with S&T to fulfill the DHS's research and development needs. [Insights Outreach](#) is a monthly webinar series about navigating S&T partnership opportunities for the innovation community, including small businesses and startups, interested in doing business with S&T. Join Industry Partnerships to learn about S&T partnership opportunities, DHS mission needs, and alternative paths to funding to help get the best homeland security solutions to market faster.

Explosives Detection | [WATCH THE VIDEO!](#)

Across the Homeland Security Enterprise, explosive threats are a major concern in aviation and checkpoint security.

Data Analytics | July 14 [WATCH THE VIDEO!](#)

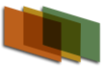
Data analytics crosscuts a wide range of homeland security missions, including fraud, natural disasters, trade enforcement, countering weapons of mass destruction, cyber and infrastructure security, and more.

Countering Unmanned Aircraft Systems | August 27 - [WATCH THE VIDEO!](#)

Bad actors are increasingly using Unmanned Aircraft Systems (UAS) for surveillance, reconnaissance, illicit conveyance, targeted attacks, disruption of operations, and other hostile actions. This webinar focused on the areas DHS S&T is pursuing against this threat by developing enhanced technologies and methods that allow for the detection, tracking, identification, and mitigation of UAS under varied terrains and environmental conditions.

[Funding Innovation](#)

- **[Targeted Broad Agency Announcement \(BAA\)](#)**
Targeted BAAs are time-sensitive topic solicitations that execute defined research and development to deliver practical solutions to homeland security priority needs. For a list of open targeted BAA topics visit the [BAA portal](#).
- **[Long Range Broad Agency Announcement](#)**
LRBAA is a standing, open invitation to the scientific and technical communities to propose novel ideas that address high-priority homeland security needs. For a list of open LRBAA topics visit the [BAA portal](#).
- **[Prize Competitions](#)**
Prize Competitions provide monetary incentives to mobilize a diverse set of innovators to address homeland security challenges using public crowd sourcing. For a list of open competitions, visit the [Prize Competitions](#) page.
- **[Small Business Innovation Research \(SBIR\) Program](#)**
The DHS SBIR Program provides funding to small businesses for concepts and prototypes in support of specific homeland security needs. The DHS SBIR Program posts one



solicitation annually and awards contracts to small businesses. Visit the [SBIR portal](#) for more information.

- **Binational Industrial Research and Development (BIRD)**
The BIRD Homeland Security (HLS) program is a joint initiative funded by DHS S&T and the Israel Ministry of Public Security and managed by the BIRD Foundation. The program provides conditional grants of up to \$1 million for approved projects and up to 50 percent of the combined project budget for the development of advanced technologies of mutual benefit to the U.S. and Israel.
- If you do not find a current open opportunity through S&T, you may consider submitting your capability through the ***DHS Unsolicited Proposal Process***. This process is for innovative and unique products and services that are not commercially available, and specific criteria must be met before an unsolicited proposal can be submitted. Find out more at [unsolicited proposals](#) to begin this process.

Current LRBA Topics

The 28 LRBA topics are categorized under **six R&D priority needs areas**:

Check out the two new & four updated enduring topics! The two new topics are noted in ***bold and italicized*** font.

SECURING AVIATION (SEC AVN)

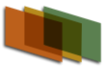
- ***SEC AVN 04-11: Novel Approaches and Locations for Explosive Performance and Testing (new)***
- SEC AVN 05-02: Screening at Speed
- SEC AVN 06-06: Development of Tools for Test and Evaluation of Machine Learning Algorithms

SECURING BORDERS (SEC BORD)

- SEC BORD 01-01: Noninvasive, Minimally Disruptive Sensors and Systems
- SEC BORD 03-05: Air Based Technologies (updated)
- SEC BORD 03-06: Countering Unmanned Aircraft Systems
- SEC BORD 03-07: Maritime Domain Awareness Technologies
- SEC BORD 03-08: Emerging Technologies
- SEC BORD 06-02: Immigration Services Program (updated)

SECURING CYBERSPACE (SEC CYB)

- SEC CYB 03-08: Predictive Analytics
- SEC CYB 03-09: Countering Identity Threats
- SEC CYB 03-10: Shared Cyber Resilience
- SEC CYB 04-02: Mobile Security & Resiliency R&D



- SEC CYB 06-02: Software and Hardware Supply Chain Assurance

PREVENTING TERRORISM (PREV)

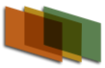
- PREV 01-02: Detection Canine Technologies
- PREV 03-01: Trustworthy and Responsible Artificial Intelligence
- PREV 04-03: Threat Prevention

PROTECTING FROM TERRORIST ATTACKS (PROT)

- PROT 02-02: Advanced and Emerging Data Computation and Analytics (updated)
- PROT 03-04: Research, Testing and Evaluation of Food, Agriculture and Veterinary Defense Prototype Countermeasure Tools to Increase Resiliency Against High Consequence Domestic Terrestrial Animal Disease Events
- PROT 03-05: Research, Development, Testing and Evaluation of Food and Agriculture Defense Tools and Technologies for Countering Threats to Plant or Crop Diseases and Pests

MANAGING INCIDENTS (MGMT)

- MGMT 01-02: Technology Acceptance
- MGMT 02-08: GMD and Nuclear EMP Critical Infrastructure Risk (updated)
- **MGMT 05-02: Public safety tools for lithium-ion battery incidents (new)**
- MGMT 08-04: Using Internet of Things (IoT) for Community and Infrastructure Resiliency Against All-Hazards
- MGMT 08-05: Integrating risk sciences and adaptive engineering for community and infrastructure resilience
- MGMT 08-06: Maritime Environment and Climate and Coastal, Port, and Waterway Security
- MGMT 08-07: Laboratory Research to Characterize Agricultural Threat Agents
- MGMT 09-01: Forensics and Criminal Investigations



New Faculty Guide to Finding NSF Funding

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By Mike Cronan, PE, co-publisher

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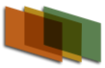
A key first step to a research career is **finding funding**. New faculty start arriving in the summer for the fall semester. Third year review and promotion and tenure are two key waypoints on their horizon. Jump starting a research career begins with a **research strategic plan** grounded on an informed understanding of how to find funding at federal research agencies. Most new faculty are not as well informed on this process as they need to be in order to initiate the research expectations of the promotion and tenure process in a timely way. **These faculty need help from research offices to start the P&T journey of funded research**. The first step is knowing **where to find funding that maps to their research interests**. Below is a summary of funding advice posted by NSF that represents a starting point for new faculty, starting with the core key question of “**what does NSF fund?**” The answer being:

- **Basic research and education** across all fields of **fundamental** science and engineering, except the medical sciences.
- **Use-inspired research** with the potential to create **products and solutions** that improve people's lives.
- **Research partnerships** between colleges and universities, industry, nonprofits, government and other organizations within the U.S. and across the globe.
- **Education and training programs** in science and engineering that attract individuals from diverse backgrounds and from every sector – from pre-K through graduate school and beyond.
- **Infrastructure and state-of-the-art tools** for research, including supercomputers, ground-based telescopes, research stations in the Arctic and Antarctic, long-term ecological sites and engineering centers.

NSF encourages **interdisciplinary** and **convergent** approaches to research and education, as well as activities with the potential to lead to **transformative** discoveries. NSF announces its funding opportunities on the NSF [website](#) and on [Grants.gov](#).

How to find the right funding opportunity

- **Use the NSF Funding Search:** NSF posts its active funding opportunities on the NSF Funding Search page. You can search opportunities by keyword or filter results by a specific NSF **directorates or divisions** you're interested in and other criteria.
- **Subscribe to email alerts:** Subscribe to NSF's email updates to receive information on NSF funding opportunities and updates in the topic areas you choose.
- **Explore funded projects:** Search NSF's database of previously funded projects to find projects in similar areas to yours and see which NSF programs funded them.
- **Visit NSF's directorates pages:** NSF is organized into directorates reflecting the major areas of science and engineering funded by the foundation. On their pages you can find additional information about programs they fund.



Can't find an NSF program that fits your project idea?: Learn how to submit an **unsolicited proposal** to NSF by following the below steps when there is no natural "home" for it in one of NSF's existing programs:

1. Prepare a summary of your proposal ideas.

Develop a short **1-2 paragraph description of your proposal idea** that you can **send by email** and discuss with NSF staff. Make sure your idea is appropriate for NSF funding by viewing the *Programs and Funding Opportunities* section of the agency's [Proposal and Award Policies and Procedures Guide](#).

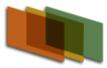
2. Contact an NSF program officer.

The program officer you contact will provide guidance on how and where to submit your proposal. To find an appropriate program officer, consider these options in the following order:

- **Identify a program officer through an existing NSF program.** In many cases, there will be an existing NSF program for which the proposal idea may be appropriate. Read the program description or solicitation. ***If your idea seems appropriate, contact one of the program's program officers.***
- **Identify a program officer through other means.** If your proposal doesn't clearly fit an existing program, it may make sense to first contact a program officer with expertise in your discipline. They may consult with other NSF staff or recommend another officer for you to contact. You may also contact a program officer you already know, such as one who is managing an award for you or who you met at a conference.
- **Contact a point of contact listed below.** If you think your proposal will be of particular interest to one NSF directorate or office, ***reach out to the relevant point of contact for that directorate.*** That person is responsible for identifying a program officer in that directorate who will discuss your proposal with you.
- **If there is not an obvious [point of contact](#), email NSF at idr@nsf.gov or call (703) 292-4840.**

Funding Opportunities for Early-Career Researchers

- The **[BRC-BIO](#)** program supports pre-tenure faculty in the biological sciences at non-R1 institutions, enabling them to increase their research capacity and build independent research programs. Awards provide up to \$450,000 plus \$50,000 for equipment over a 36-month period. Equipment costs exceeding \$50,000 will be considered on a case-by-case basis.
- The **[CAREER program](#)** provides support to early-career faculty – at the assistant professor or equivalent rank – who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. Recipients will receive a minimum of \$400,000 over a five-year period.
- **[Career-Life Balance supplements](#)** allow NSF-funded researchers to support additional personnel – such as a technician or research assistant – when an investigator, postdoctoral fellow or graduate student is on family leave for primary dependent care responsibilities or other direct family considerations. Supplements provide up to \$30,000 for up to six months of salary or stipend support for additional personnel. If applicable, requests may also include fringe benefits and associated indirect costs. Tuition fees are not included.



- **CRII** supports early-career scientists at non-R1 institutions in computer and information science and engineering who lack access to organizational resources, enabling them to undertake exploratory research and develop collaborations and new approaches. Awards provide up to \$175,000 over a 24-month period.
- The **EAGER** funding mechanism supports exploratory work in early stages on untested but potentially transformative research ideas or approaches that are considered “high-risk, high-reward.” EAGER proposals are reviewed internally by NSF, which allows for shorter time between proposal submission and available funding. Awards provide up to \$300,000 for a period of up to two years.
- The **ECR: BCSER** program supports activities that advance STEM education research. The program's **Investigators New to STEM Education Research** awards support investigators new to STEM education research in developing the requisite knowledge and skills needed to conduct rigorous research in STEM education. These awards provide up to \$350,000 over a three-year period.
- The **ERI program** supports new investigators at non-R1 institutions as they initiate their engineering research programs and advance in their careers as researchers, educators and innovators. These awards provide up to \$200,000 over a 24-month period.
- **EPSCoR Research Fellows** supports early- and mid-career investigators located in EPSCoR-eligible jurisdictions to further develop their individual research potential through extended collaborative visits to U.S. private, government or academic research centers.
- The **LEAPS-MPS** program supports the research of pre-tenure faculty in mathematical and physical sciences, with an emphasis on those at institutions that traditionally do not receive significant NSF funding, such as minority-serving institutions, predominantly undergraduate institutions and R2 universities. LEAPS-MPS awards provide up to \$250,000 of support over a 24-month period.



Heads up! NSF's New Graduate Student Mentoring Plan Requirement

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By Lucy Deckard, co-publisher

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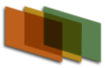
The New Mentoring Plan Requirement

NSF's newest version of their Proposal & Awards Policies and Procedures Guide ([PAPPG](#)) took effect on May 20, 2024. One change to the PAPPG will impact most PIs: a Mentoring Plan is required not only if the budget includes funding for a postdoctoral research (as was previously the case), but also **if a graduate student will be supported on the project**. (Another important change relates to new requirements for the biosketches - see Chapter II.D.2.h(i) for those instructions - and a new required 1-page Synergistic Activities document - see Chapter II.D.2.h(iv).) Below are the new PAPPG instructions related to the Mentoring Plan:

(i) Mentoring Plan.³⁷ Pursuant to Section 7008(a) of the America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science (42 U.S.C. § 1862o(a)), each proposal that requests funding to support postdoctoral scholars or graduate students must upload under "Mentoring Plan" in the supplementary documentation section of Research.gov, a description of the mentoring activities that will be provided for such individuals. In no more than one page, the mentoring plan must describe the mentoring that will be provided to all postdoctoral scholars or graduate students supported by the project, regardless of whether they reside at the submitting organization, any subrecipient organization, or at any organization participating in a simultaneously submitted collaborative proposal. Please note that separate plans are not required for postdoctoral scholars or graduate students. The plan may, however, specify how different components of the mentoring program will be enacted for the two types of researchers. Proposers are advised that the mentoring plan must not be used to circumvent the 15-page Project Description limitation. See Chapter II.E.3 for additional information on collaborative proposals. Mentoring activities provided to postdoctoral scholars or graduate students supported on the project will be evaluated under the Broader Impacts review criterion. Note see also Chapter VII.B. for information on requirements regarding Individual Development Plans for postdoctoral scholars or graduate students. Examples of mentoring activities include but are not limited to: career counseling; training in preparation of proposals, publications and presentations; guidance on ways to improve teaching and mentoring skills; guidance on how to effectively collaborate with researchers from diverse backgrounds and disciplinary areas; and training in responsible professional practices.

There are several things to note in these instructions:

- Unless otherwise stated in the solicitation, the Mentoring Plan is required for all NSF proposals that include support for one or more graduate students, **including this year's NSF CAREER proposals, due July 24, 2024**. (As before, it is also required if there's funding for a postdoc on the budget.)
- The length of the Mentoring Plan is only one page and is separate from the 15-page Project Description.
- If a project includes support for both postdoctoral scholars and graduate students, the PI still needs to submit only one (1-page) Mentoring Plan; however, they can have separate sections to address differences in how postdocs and graduate students will be mentored.



- This is not the place to talk about the research that the graduate student will be conducting. That should be addressed in the Project Description. Instead, talk about additional mentoring activities and experiences that will be made available to participating graduate student(s).

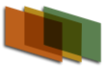
What NSF is Looking For

Whenever a funder requires special information like this, especially when it's a new requirement, it's important to understand why they're asking for it. Understanding the funder's motivation and concerns will help clarify what type of information they're looking for. The new graduate student Mentoring Plan requirement was included in the newest update of the America COMPETES Act. The older requirement for a Mentoring Plan for postdocs was included in the original America COMPETES Act (which took effect in 2007), and the motivation is similar for this new expanded requirement.

The concern is that graduate research assistantships funded by taxpayer money should benefit the graduate students and help prepare them for their future STEM careers, rather than simply providing the PI with labor to accomplish the proposed tasks. This means that PIs should be intentional and thoughtful about how they mentor their graduate students, and they should follow best practices. It also means that institutions should provide the infrastructure and resources, such as professional development training and opportunities, to help PIs mentor graduate students. The Mentoring Plan is a way for the PI to assure the reviewers and Program Officer that the PI and their institution are doing that.

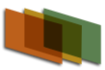
Note that reviewers are not asked to rate the Mentoring Plan (excellent, very good, etc.); they're just asked to state whether or not it's acceptable. As long as you give it some thought, writing a Mentoring Plan is relatively easy. That said, this is not a "boiler plate" document. Your Mentoring Plan needs to fit the kinds of graduate students you work with, the expectations and culture of your discipline, the type of project you're proposing, the opportunities available at your institution, and the typical career trajectories of your graduate students. Below are some typical elements of a strong Mentoring Plan.

- **Promote two-way conversations and tailor your mentoring to the student's goals.** Have a meeting at the beginning to discuss goals and expectations. This is often a good time to work with your student to develop an **Individual Development Plan** based on their career goals (or questions). Do they want a career in academia? If so, maybe the plan should include training in teaching, grant writing, and perhaps a workshop on how to interview for a faculty position (if offered by your university). Maybe you'll commit to have them work with you to develop grant proposals. Do they want to become an entrepreneur? Look for training and experiences that will help them with that. Do they want a job in industry? What kinds of experiences might help them to make the right connections and get the experience and skills they need to prepare them for industry research positions related to your discipline. Are they not sure if they want to go into academia or industry? Talk to them about the kinds of experiences that might help them decide. The key here is that this not a one-way process where you simply share your wisdom with your graduate student. It's a discussion and should involve development of a shared plan.



- **Discuss how you will implement the Mentoring Plan**, and how you will help keep your graduate student mentee on track. This is usually through regular, planned meetings.
- Consider involving your graduate student in **experiences beyond the university**. For example, NSF likes to see funding included to bring graduate students to disciplinary conferences so that they can present their work, involving students in activities where they can network more broadly with experts in the field, for example, including students in dinners with a visiting guest speaker. If appropriate for your discipline and research areas, you may want include activities to help students learn how to interact with diverse stakeholders, policy makers, or the public about their research.
- Check out **what programs are available at your institution** that might be useful to your graduate student mentee. These may be professional development workshops, community building activities, or networking opportunities. Discuss these activities in your Mentoring Plan. Are there support organizations for students who are underrepresented in STEM that your graduate student mentee can take advantage of (e.g., Society of Women Engineers, National Society of Black Engineers and Scientists, etc.) As with your Project Description, specifics will be more convincing than vague generalities.
- Take advantage of **opportunities in your specific project**. Will you be collaborating with a National Lab or researchers at another university? If so, how can you involve your graduate student researcher? Will you involve your students in proposed education/outreach activities in a way that will help build their communication skills or extend their network?

Developing a strong Mentoring Plan isn't difficult, but it does require some thought and planning.



Unsolicited Proposals to Federal Agencies

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By Mike Cronan, PE, co-publisher

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Most federal research funding agencies accept unsolicited proposals, USDA/NIFA being one exception. The specific agency criteria that detail the submission process differ slightly by agency but **essentially rhyme because they all must meet the governing regulations for federal acquisition of unsolicited proposals**, as detailed below. Going to the source of these regulations is helpful because the process is described in a clear, stepwise fashion that will benefit anyone writing an unsolicited proposal or those in research offices that help those unfamiliar with the process, **typically the majority of early career faculty**. Information given by each federal agency on the unsolicited proposal process, for example, in Broad Agency Announcements or agency proposal guidelines, **must reflect the overarching acquisition process below**.

15.603 General.

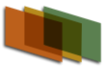
Unsolicited proposals allow unique and innovative ideas or approaches that have been developed outside the Government to be made available to Government agencies for use in accomplishment of their missions. **Unsolicited proposals** are offered with the intent that the Government will enter into a contract with the offeror for research and development or other efforts supporting the Government mission, and often represent a substantial investment of time and effort by the offeror. **A valid unsolicited proposal must:**

- Be innovative and unique;
- Be independently originated and developed by the offeror;
- Be prepared without Government supervision, endorsement, direction, or direct Government involvement;
- Include sufficient detail to permit a determination that Government support could be worthwhile and the proposed work could benefit the agency's research and development or other mission responsibilities;
- Not be an advance proposal for a known agency requirement that can be acquired by competitive methods; and
- Not address a previously published agency requirement.

15.604 Agency points of contact.

Make preliminary contact with agency technical or other appropriate personnel **before preparing a detailed unsolicited proposal** or submitting proprietary information to the Government. This will save considerable time and effort for both parties (see [15.201](#)). **Agencies must make available to potential offerors of unsolicited proposals at least the following information:**

- Definition and content of an unsolicited proposal acceptable for formal evaluation: **Unsolicited proposal** means a written proposal for **a new or innovative idea** that is submitted to an agency **on the initiative of the offeror** for the purpose of **obtaining a contract** with the Government, and that **is not in response to a request for**



proposals, Broad Agency Announcement, Small Business Innovation Research topic, Small Business Technology Transfer Research topic, Program Research and Development Announcement, **or any other Government-initiated solicitation or program.**

- Requirements concerning responsible prospective contractors, and organizational conflicts of interest.
- Guidance on **preferred methods for submitting ideas/concepts** to the Government, such as any agency: upcoming solicitations; Broad Agency Announcements; Small Business Innovation Research programs; Small Business Technology Transfer Research programs; Program Research and Development Announcements; or grant programs.
- **Agency points of contact** for information regarding advertising, contributions, and other types of transactions similar to unsolicited proposals.
- Information sources on **agency objectives and areas of potential interest.**
- Procedures for **submission and evaluation** of unsolicited proposals.
- Instructions for identifying and marking proprietary information.

15.605 Content of unsolicited proposals.

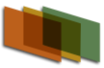
Unsolicited proposals should contain the following information to permit consideration in an objective and timely manner:

Basic information including--

- Offeror's name and address and type of organization; e.g., profit, nonprofit, educational, small business;
- Names and telephone numbers of technical and business personnel to be contacted for evaluation or negotiation purposes;
- Identification of proprietary data to be used only for evaluation purposes;
- Names of other Federal, State, or local agencies or parties receiving the proposal or funding the proposed effort;
- Date of submission; and
- Signature of a person authorized to represent and contractually obligate the offeror.

Technical information including--

- Concise title and abstract (approximately 200 words) of the proposed effort;
- A reasonably complete discussion stating the objectives of the effort or activity, the method of approach and extent of effort to be employed, the nature and extent of the anticipated results, and the manner in which the work will help to support accomplishment of the agency's mission;
- Names and biographical information on the offeror's key personnel who would be involved, including alternates; and



- Type of support needed from the agency; e.g., Government property or personnel resources.

Supporting information including--

- Proposed price or total estimated cost for the effort in sufficient detail for meaningful evaluation;
- Period of time for which the proposal is valid (a 6-month minimum is suggested);
- Type of contract preferred;
- Proposed duration of effort;
- Brief description of the organization, previous experience, relevant past performance, and facilities to be used;
- Other statements, if applicable, about organizational conflicts of interest, security clearances, and environmental impacts; and
- The names and telephone numbers of agency technical or other agency points of contact already contacted regarding the proposal.

15.606 Agency procedures.

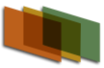
Agencies shall establish procedures for controlling the receipt, evaluation, and timely disposition of unsolicited proposals consistent with the requirements of this subpart. The procedures shall include controls on the reproduction and disposition of proposal material, particularly data identified by the offeror as subject to duplication, use, or disclosure restrictions. Agencies shall **establish agency points of contact** to coordinate the receipt and handling of unsolicited proposals.

15.606-1 Receipt and initial review

Before initiating a comprehensive evaluation, the agency contact point shall determine if the proposal--

- Is a valid unsolicited proposal, meeting the requirements of [15.603\(c\)](#);
- Is suitable for submission in response to an existing agency requirement (see [15.602](#));
- Is related to the agency mission;
- Contains sufficient technical information and cost-related or price-related information for evaluation;
- Has overall scientific, technical, or socioeconomic merit;
- Has been approved by a responsible official or other representative authorized to obligate the offeror contractually; and
- Complies with the marking requirements.

If the proposal **meets these requirements**, the contact point shall promptly acknowledge receipt and process the proposal. If a **proposal is rejected** because the proposal does not meet the requirements of paragraph (a) of this subsection, the agency contact point shall promptly **inform**



the offeror of the reasons for rejection in writing and of the proposed disposition of the unsolicited proposal.

15.606-2 Evaluation.

Comprehensive evaluations shall be coordinated by the **agency contact point**, who shall attach or imprint on each unsolicited proposal, circulated for evaluation, the legend required. When performing a comprehensive evaluation of an unsolicited proposal, **evaluators shall consider the following factors**, in addition to any others appropriate for the particular proposal:

- Unique, innovative, and meritorious methods, approaches, or concepts demonstrated by the proposal;
- Overall scientific, technical, or socioeconomic merits of the proposal;
- Potential contribution of the effort to the agency's specific mission;
- The offeror's capabilities, related experience, facilities, techniques, or unique combinations of these that are integral factors for achieving the proposal objectives;
- The qualifications, capabilities, and experience of the proposed principal investigator, team leader, or key personnel critical to achieving the proposal objectives; and
- The realism of the proposed cost.

The evaluators shall notify the agency point of contact of their recommendations when the evaluation is completed.

15.607 Criteria for acceptance and negotiation of an unsolicited proposal.

A favorable comprehensive evaluation of an unsolicited proposal **does not, in itself, justify awarding a contract without providing for full and open competition**. The agency point of contact shall return an unsolicited proposal to the offeror, citing reasons, when its substance--

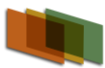
- Is available to the Government without restriction from another source;
- Closely resembles a pending competitive acquisition requirement;
- Does not relate to the activity's mission; or
- Does not demonstrate an innovative and unique method, approach, or concept, or is otherwise not deemed a meritorious proposal.

The contracting officer may commence negotiations on a sole source basis only when--

- An unsolicited proposal has received a favorable comprehensive evaluation;
- A justification and approval has been obtained;
- The agency technical office sponsoring the contract furnishes the necessary funds; and
- The contracting officer has complied with the synopsis requirement.

15.608 Prohibitions.

Government personnel **shall not use any data, concept, idea, or other part of an unsolicited proposal as the basis, or part of the basis, for a solicitation or in negotiations with any other**



firm unless the offeror is notified of and agrees to the intended use. However, this prohibition does not preclude using any data, concept, or idea in the proposal that also is available from another source without restriction.

Government personnel shall not disclose restrictively marked information included in an unsolicited proposal. The disclosure of such information concerning trade secrets, processes, operations, style of work, apparatus, and other matters, except as authorized by law, may result in criminal penalties.

15.609 Limited use of data.

An unsolicited proposal may include data that the offeror does not want disclosed to the public for any purpose or used by the Government except for evaluation purposes. **If the offeror wishes to restrict the data, the title page must be marked with the following legend: “Use and Disclosure of Data”**

“This proposal includes data that shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed-in whole or in part-for any purpose other than to evaluate this proposal. However, if a contract is awarded to this offeror as a result of-or in connection with-the submission of these data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract. This restriction does not limit the Government’s right to use information contained in these data if they are obtained from another source without restriction. The data subject to this restriction are contained in Sheets [**insert numbers or other identification of sheets**].

For additional detail on above, see [Access the Federal Acquisition Regulation for unsolicited proposals](#). Finally, two unique cases are elaborated upon below, specific to NSF and NIH.

UNSOLICITED PROPOSALS TO NSF

The [NSF Grant Proposal Guide \(GPG\)](#) provides guidance for preparation of unsolicited proposals to NSF. Proposals submitted in response to **NSF program announcements** are considered unsolicited and are prepared in accordance with GPG formatting and other requirements. Proposers should be aware that awards resulting from unsolicited research proposals are subject to statutory cost sharing. (See Section II.D.7.I and *Grant Policy Manual (GPM)* Section 330.) **Unsolicited proposals are evaluated** in accordance with the general evaluation criteria identified in Chapter III and compete with each other, **but less directly than do solicited proposals**.

[NIH PARENT ANNOUNCEMENTS](#) (FOR UNSOLICITED OR INVESTIGATOR-INITIATED APPLICATIONS)

Parent announcements are broad funding opportunity allowing applicants to submit **investigator-initiated applications for specific activity codes**. They are **open for up to 3 years** and use [standard due dates](#). Not all NIH Institutes and Centers participate on all parent announcements. Before submitting your application, make sure the NIH Institute or Center that might be interested in your research is listed as a participating organization in the announcement. **The following Parent Announcements are available** (sorted by Activity Code):

[[Research \(R\)](#) | [Research Training \(T\)](#) | [Career Development \(K\)](#) | [Fellowships \(F\)](#) | [Admin Supplements](#) | [Post-award Administrative Action](#)]



Win Your Grant on Page 1

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by Mike Cronan, PE

Reprinted from January, 2019

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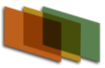
Grants are won on page one. This is where you set the stage for the all subsequent narrative text. This is where you win over reviewers to your great idea. This is where you begin explaining not only what you will do but **how you will do it**. By the end of page one, the reviewers will need to know *what you will do*, **why you will do it (rationale)**, **how you will do it**, **your capacity to do it**, and **why it is significant and innovative in the context of the current state of the field or agency mission**. Moreover, as NSF notes, page one is where you start to **“build trust in the reviewers that what you can’t fit in the page limit is within your grasp.”**

That reviewer trust will rest on how well you answer the foregoing questions with clarity and specificity and detail rather than vague generalities. Generalities on page one **invariably metastasize** into the rest of the narrative. Reviewers are left with only two logical interpretations for generalities rather than specifics, neither good for establishing reviewer confidence in your capacity to perform—either you are sufficiently uncertain yourself about the proposed research objectives or you are woefully unable to explain them to others, **in either case, it does not bode well for a funding recommendation.**

If reviewers get to page two still searching for convincing answers to the foregoing questions you will be at a serious competitive disadvantage. Page one must offer reviewers clarity and not present them with an ambiguous puzzle to solve going forward in reviewing the research narrative. In fact, if you don’t convincingly respond to the foregoing questions on page one, you will leave reviewers with little interest or enthusiasm for reading the rest of your narrative, and some reviewers, by all accounts, will not.

Of course, answering the foregoing questions in a convincing and compelling way is not an easy task, and, unfortunately, one done inadequately in the majority of proposals submitted, something evident in the very low success rate of grant applications where often 80% of applicants fail. If you read reviews of declined proposals, you will soon see that a common denominator of the reviewers’ decision to **recommend against funding is that these questions were not adequately addressed in the proposal.** This is the case regardless of disciplinary area or funding agency. In most cases, the foundation of funding failure can be traced back to how well or how poorly these questions were addressed on page one of the proposal. After all, if you can’t get this right on page one, there is no reason to believe you will get it right in the rest of your project narrative.

The main reason these questions are poorly answered is that they are poorly planned for during proposal development discussions among principal investigators. A lot of groundwork has to be in place to begin to answer these questions in a convincing way. A well-crafted page one of your proposal requires a lot of planning, going back to the earliest stages of proposal development.



Every question that needs to be answered on page one of the proposal should be answered in a preliminary way before the writing begins. Moreover, these questions should guide the research development discussions among the proposal team, including the key initial decision every applicant must make of whether or not a submission is warranted based on an assessment of proposal competitiveness determined in large part on how well these core questions can be answered.

Most principal investigators struggle with answering these questions clearly and concisely in the initial stages of proposal development and writing. The successful ones are persistent, going through iteration after iteration, both in team discussions that address these questions and in the narrative drafts that come out of these discussions. This is important because page one needs to be concise and succinct. It cannot be inflated in any way in hopes that if you throw a tangled mass of verbal spaghetti at the reviewers they will hopefully find something in it that they like. To quote Dr. Seuss, ***"The writer who breeds more words than he needs, is making a chore for the reader who reads."***



To Revise, Re-Write, or Begin Anew?

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By Mike Cronan, PE, co-publisher

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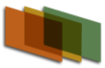
The first big decision to be made after reading the reviews of a **declined proposal** is the one Shakespeare examined in his iconic character Hamlet: **"To Resubmit or Not to Resubmit, that is the question."** If this question is answered in the affirmative, the next big question centers on the project narrative: **Should it be revised, should it be deeply rewritten, or should it be set aside and an entirely new proposal written?** Some may assume that in cases where the reviews were sufficiently favorable to put the proposal on the margin or funding bubble the resubmission need only include limited revisions, or perhaps some rewriting in response to the reviews. However, as the old engineering design caveat goes, "Do not assume, or you will likely make an 'ass' of 'u' and 'me.'" **A more thoughtful approach to resubmission is required.**

For instance, a revised proposal, particularly at NSF, will likely not be reviewed by the same panel that declined the original proposal. Therefore, it's a mistake to assume that addressing the concerns of the first submission review panel will thereby address the concerns of a future but different review panel. Such a belief resembles the old adage of the general who's always prepared to fight the last war. This subtle but important distinction is too often overlooked in the resubmission process. Or, to paraphrase the disclaimer on every mutual fund warning, *"Past performance is no guarantee of future performance."*

Likewise, **prior reviews are no guarantee of future reviews.** There are several reasons for this. First and most obviously, a new panel may or may not agree with a prior panel, or it may address new concerns not raised by the original panel, or the mix of reviewers may be disciplinarily similar but have slightly different perspectives about what is a fundable project under the program guidelines. Moreover, apart from the end-run option described below, **a resubmission typically takes place in a timeframe of six months or, more likely, a year in the future.** Time and research significant to the field are **not static but dynamic and evolving**, particularly as it **relates to the advances made in the research** from the time the original proposal was submitted and the revised proposal is reviewed. **To think otherwise may in fact introduce sufficient complacency into the process to make a resubmittal less competitive than the original submission.**

As noted before in this newsletter, *"NSF PPAPG Webinar Overview,"* the Directorates of Geosciences, Biological Sciences, and Engineering now have **no deadlines for core programs.** However, PPAPG resubmission guidelines have been revised to establish that NSF programs that accept proposals at any time **may** set guidelines stating that a declined proposal is deemed **ineligible for resubmission for a specified period of time.** This came about from cases wherein NSF declined a "no deadline" core proposal **only to have it resubmitted several days after it was declined,** something the agency felt was an end run around the spirit of the process.

While NSF obviously frowned upon this several-day turnaround, the applicant's response also points to a common larger problem that can plague a resubmittal, rendering it noncompetitive for funding. As noted in prior newsletter articles, a declined proposal requires a very detailed autopsy to determine the specifics and nuances informing the reviewers' negative decision. Keep in mind that many comments made when declining a proposal, for example, "the research plan lacked specifics," or "it is not clear how this research will be accomplished," or "the goals and objectives



were confusing and siloed," or "the proposed research strands are not well integrated," etc., are in essence surrogates for "this proposal was poorly written and organized."

While reviewers may comment that a proposal is well written, that compliment is usually accompanied by a recommendation for funding, whereas reviewer comments on declined proposals typically reflect observations that result from a **poorly written or poorly organized proposal**. A narrow response to reviewer comments might overlook the possibility that such critical comments likely resulted from underlying organizational and writing problems with the proposal narrative itself. It's wise to evaluate critical comments for implications larger than the comments might narrowly describe.

To avoid doing so is to tempt fate and result in a resubmission again declined for funding.

So what to do? Well for one thing, **recognize that a slightly revised or partially rewritten proposal is still locked into an existing narrative organization, logic structure, and wording that was declined for funding in the first place**, something that will make revision difficult and less than optimum for a successful resubmission. For example, rejections of research proposals frequently cite poor integration, **noting that sections appear siloed** individually and in relation to each other. No simple fix will resolve this problem, which calls for starting anew and writing a resubmission as if it were a new proposal benefiting from reviewer suggestions.

But unfortunately, "Hope springs eternal," meaning that **declined proposals are too often resubmitted in hopes that a minimal effort composed of minor revisions and/or rewrites will guarantee a successful resubmission**. While it is true that many proposals written by persistent PIs are funded on a second or third resubmittal, it is also the case that those PIs who successfully resubmit often do so by setting aside the failed narrative and creating a new proposal organization, argument logic structure, research rationale, narrative integration, etc.

The sad fact of life is that **a declined proposal is a flawed document** in many ways, and while it takes more time, effort, and thought first, to perform an in-depth autopsy on the declined proposal, and second, to come up with a new plan for a new successful proposal, **it is the path best taken for long-term funding success**.



Research Grant Writing Web Resources

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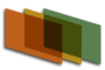
WASHINGTON (June 11, 2024) - The [U.S. Department of Agriculture](#) (USDA) and the [Foundation for Food & Agriculture Research](#) (FFAR) today launched a global challenge to advance scientific research that will produce major breakthroughs for nutrition security while mitigating climate change impacts and advancing equity for underserved communities. The **“Nourishing Next Generation Agrifood Breakthroughs” (Innovation Challenge) funding opportunity** will fund transdisciplinary teams led by early-career scientists (those who have received a Ph.D. within the past ten years) to catalyze new discoveries and mobilize transformative research that simultaneously tackle our most important societal challenges.

This competitive Innovation Challenge will spark high-risk, high-reward research through innovations at the intersection of nutrition security, equity and justice, and climate-smart agriculture. With a focus on the next generation of research, this opportunity emphasizes providing resources to support highly creative and highly promising early-career researchers. USDA and FFAR will award up to \$2 million to successful applicants across multiple teams who propose a compelling vision for how their research can support sustainable food production, promote human health, and reduce inequities while enhancing real-world nutrition security.

The Innovation Challenge invites eligible researchers from domestic and international higher education institutions, non-profit and for-profit organizations, and government-affiliated research agencies to propose projects that advance disruptive approaches and technologies in alignment with [USDA’s Science & Research Strategy, 2023 - 2026: Cultivating Scientific Innovation \(S&RS\)](#) and [FFAR’s Research Strategy](#). Climate, nutrition security, and equity are often seen and addressed as three distinct challenges, but this new Innovation Challenge asks teams to see these problems as interconnected. The \$1 million share of funding USDA is providing for this opportunity comes from funding Congress appropriated to the Office of the Chief Scientist. Innovation Challenge applications **are due Monday, July 29, 2024**. For more information about the Challenge and to start the application process, click [here](#). You may also click [here](#) to register to attend the June 13, 2024, USDA/FFAR webinar for prospective applicants that will offer detailed information about the application and selection process.

Here are some of NSF/SBE's prominent infrastructure programs:

- SBE’s new [Research Infrastructure in the Social and Behavioral Sciences Program](#) (RISBS) supports projects that create computational tools and data to facilitate basic research in the social and behavioral sciences that can lead to improved health, prosperity and security. RISBS directly supports three longitudinal surveys and panel studies that provide researchers with data on how American society functions and changes over time. RISBS supports SBE research infrastructure that transcends disciplinary program boundaries in the SBE sciences.
- SBE supports the development of data infrastructure that enables data-intensive research in the social sciences through its [Human Networks and Data Science](#) (HNDS) program, especially through its infrastructure track. The HNDS program supports research that studies the behavior of individuals and groups by leveraging data and network science and the development of data infrastructure that makes such work possible.



- In addition to its support for research infrastructure used by the scientific community, SBE also invests in human-centered, use-inspired, fundamental and potentially transformative research aimed at strengthening America's infrastructure through its cross-cutting [Strengthening American Infrastructure](#) (SAI) program. SAI studies broader infrastructure by focusing on how fundamental knowledge about human reasoning and decision-making, governance, and social and cultural processes enables the building and maintenance of effective infrastructure that improves lives and society and builds on advances in technology and engineering.

EPA GRANT PROGRAMS and other funding opportunities

- [Multipurpose Grants to States and Tribes](#): This grant program provides funding to states, tribes, and territories for high priority activities that complement programs under established environmental statutes.
- [Fellowships and other student programs](#): Grants, fellowships, and research associateships
- [Air Grants and Funding](#): includes competitive grant funding announcements for projects and programs relating to air quality, transportation, climate change, indoor air and other related topics.
- [Children's Health Grants and Funding](#): EPA issues competitive funding announcements for projects and programs relating to improving children's health where they live, learn and play.
- [Environmental Education Grants](#): projects to help the public make informed decisions that affect environmental quality.
- [Environmental Information Exchange Network Grant Program](#): provides funding to develop an Internet-based, secure network that supports the electronic collection, exchange, and integration of high-quality data.
- [Environmental Justice](#): provides financial assistance to support community-based organizations to collaborate and partner with other stakeholders (e.g., industry, government, academia, etc.) to develop and implement solutions that will significantly address environmental and/or public health issue(s) at the local level.
- [Great Lakes Funding](#): includes competitive grant funding for planning, research, monitoring, outreach and implementation projects in furtherance of the Great Lakes Restoration Initiative and the Great Lakes Water Quality Agreement.
- [National Clean Diesel Campaign Grants and Funding](#): building diesel engine emission reduction programs across the country to improve air quality and protect public health.
- [People, Prosperity and the Planet](#): college students address challenges from a wide range of categories: agriculture, built environment, materials and chemicals, energy, and water. These can be challenges found in the developed or developing world and the solutions will move us towards a sustainable future.
- [Pollution Prevention Grant Program](#): provides matching funds to state and tribal programs to support pollution prevention and to develop State-based programs.



- [Research Funding Opportunities](#): upcoming ORD funding opportunities from the EPA STAR program.
- [Small Business Innovation Research \(SBIR\)](#): competitively funds environmental technology research at small businesses.
- [Office of Land and Emergency Management \(OLEM\) Grants and Funding](#): includes competitive grant funding announcements for projects and programs relating to Brownfields, Federal Facilities Restoration and Reuse, Solid Waste management, resource conservation and recovery, Underground Storage Tanks and other related topics.

EPA GRANTEE FORMS

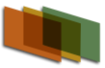
EPA forms used by grant applicants (pre-award), recipients (post-award), and fellows (pre- and post-award) located on the [EPA Grantee Forms page](#) are currently being reviewed by the Office of Management and Budget (OMB) for continued approval of use in accordance with the Information Collection Review process. While the EPA forms have a current expiration date of June 30, 2024, they are still valid and must be used until the OMB review and approval process is complete. Once complete, EPA will update the [EPA Grantee Forms page](#) with the approved forms and their updated expiration dates. If you have any questions, please reach out to your designated EPA Grant Specialist or Project Officer.

DEAR COLLEAGUES:

The **EPSCoR Research Incubators for STEM Excellence Research Infrastructure Improvement (E-RISE RII)** is hosting a set of virtual webinars to provide additional information about the goals and objectives of the program, and about the program solicitation. Researchers and research administrators in [EPSCoR jurisdictions](#), particularly those who intend to submit research proposals in response to the E-RISE RII solicitation ([NSF 23-588](#)), are welcome to join these webinars to learn more about the program and to engage in Q&A with EPSCoR Program Officers.

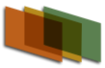
Webinar Dates and Times

- E-RISE RII General Information Session - This session will provide general information about E-RISE RII, including what distinguishes it from the EPSCoR Collaborations for Optimizing Research Ecosystems Research Infrastructure Improvement Program (E-CORE RII), eligibility criteria, and other frequently asked questions.
 - May 24, 2024, 1PM - 2:15 PM ET
 - **June 25, 2024, 1PM - 2:15 PM ET**
- E-RISE RII Solicitation-Specific Review Criteria Session - This session will focus on the merit review criteria for NSF proposals, with emphasis on the solicitation-specific review criteria for all ERISE RII proposals.
 - May 28, 2024, 1 PM - 2:15 PM ET
 - **July 9, 2024, 1 PM - 2:15 PM ET**
 - **July 23, 2024, 1 PM - 2:15 PM ET**



Register to attend the E-RISE RII General Information Sessions: Please use an institutional email address for registration:

https://nsf.zoomgov.com/webinar/register/WN_9C8K4JfVQ0aQjXD9Z6gXQQ



Educational & Social Sciences Web Resources

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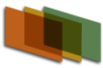
The National Center for Education Research released a funding announcement for a fiscal year 2025 grant competition in education research.

- All application packages will be available on May 30, 2024.
- Letters of intent (optional but encouraged) are **due June 27, 2024**.
- The application deadline is **September 12, 2024**.

Education Research Grants (84.305A): This program seeks to expand the understanding of what works for whom, in what context, and why to provide reliable information about how to improve education outcomes for learners at all levels, including early childhood, elementary, secondary, postsecondary, and adult education. Grants support the development and validation of assessments to support education research and practice; exploratory research to build conceptual frameworks and generate hypotheses to guide future applied research; the development and pilot testing of innovative programs, practices, and policies; and impact studies—initial efficacy, replication, and follow-up studies—to determine the benefits of programs, practices, and policies for learner education outcomes. More information about the IES research programs, application process, and deadlines are available on the [IES Funding Opportunities web page](#).

IES will announce additional competitions later in 2024. This research program invites applications in 11 education topic areas:

- [Career and Technical Education](#)
- [Civics Education and Social Studies](#)
- [Cognition and Student Learning](#)
- [Early Learning Programs and Policies](#)
- [English Learner Policies, Programs, and Practices](#)
- [Improving Education Systems: Policies, Finance, Organization, Management, and Leadership](#)
- [Postsecondary and Adult Education](#)
- [Science, Technology, Engineering, and Mathematics \(STEM\) Education](#)
- [Social, Emotional, and Behavioral Context for Teaching and Learning](#)
- [Teaching, Teachers, and the Education Workforce](#)



Agency News, Reports, Workshops & Roadmaps

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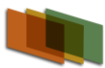
WASHINGTON - The Department of Homeland Security (DHS) released the first-ever department-wide **[Innovation, Research and Development \(IRD\) Strategic Plan](#)**, articulating key investment goals over the next seven fiscal years. Developed at the direction of Secretary Alejandro N. Mayorkas, the Strategic Plan serves as a blueprint for DHS to keep pace with technology by leveraging research and development to address homeland security challenges. "This visionary roadmap, informed by scientific efforts, will empower DHS and its components to reduce risks to the homeland through optimized innovation, research and development investments," said Dr. Dimitri Kusnezov, DHS Under Secretary for Science and Technology. "The technologies resulting from our IRD investments play a critical role in equipping the Department's front-line operators with necessary tools to outpace our adversaries and enhance our preparedness and response capabilities." **The Strategic Priority Research Areas for Fiscal Years 2024-2030 are:**

- **Advanced Sensing** - next-generation sensor capabilities to provide enhanced detection performance against a broad spectrum of threats.
- **Artificial Intelligence (AI) and Autonomous Systems** - automated technologies to provide predictions, recommendations, or decisions across a wide variety of operating environments, including means to deal with adversarial AI.
- **Biotechnology** - augmented capabilities to predict, detect, and defend against current and emerging bioagents and biotechnologies of concern.
- **Climate Change** - technologies to strengthen climate adaptation/resilience, improve equity, protect critical infrastructure, and reduce carbon emissions.
- **Communications and Networking** - enhanced communications and networking capabilities, while maintaining security and resiliency.
- **Cybersecurity** - enhanced resiliency, protection, and operational assurance across data, software, hardware, and communications networks.
- **Data Integration, Analytics, Modeling and Simulation** - enhanced, integrated data ecosystems, analytics, and modeling to enable better and more accurate data-driven insights, predictions, and decisions.
- **Digital Identity and Trust** - enhanced capabilities to establish and verify both individuals' identities and the validity, integrity, and privacy of associated data.

[ARPA-E Announces \\$150 Million to Develop Systems that Provide Abundant Primary Energy, Enable Intermodal Energy Transport, and Sustainably Meet Demand for Polymers & Other Materials](#)

Advanced Research Projects Agency-Energy (ARPA-E) Director Evelyn N. Wang announced up to \$150 million in funding to develop groundbreaking technologies to realize ARPA-E's vision of the energy future. This vision includes three goals that are critical to achieve a sustainable energy and carbon transition with: 1) greenhouse gas (GHG)-free abundant primary energy; 2) an intermodal energy superhighway that transports diversified forms of primary energy; and 3) a carbon transition that sustainably meets the demand for polymers and other materials. ARPA-E Director Wang made the announcement from the **[2024 ARPA-E Energy Innovation Summit](#)**, which kicked off in Texas today just outside Dallas.

Since the inception of ARPA-E, the **[OPEN program](#)** has served as an opportunity to advance



transformative energy breakthroughs in critical areas that fall outside the scope of ARPA-E's technology-focused programs. Now, as the Agency celebrates 15 years, ARPA-E unveiled [Vision OPEN 2024](#), a funding opportunity that represents a revolutionary view of our energy future.

"Vision OPEN 2024 is designed to develop innovations based on an energy landscape dramatically different than what we have today," **said ARPA-E Director Evelyn N. Wang**. "As the world looks to our nation for energy solutions, the United States looks to innovators to make an impact with technology. ARPA-E is calling on innovators to realize technologies that create a world beyond 2050 and sustain future generations." ***The three goals set forth by Vision OPEN 2024 require disruptive and ambitious technologies:***

- **GHG-Free Abundant Primary Energy:** This first goal seeks to provide a path to a complete transition of global primary energy supply to GHG-free forms by 2050, while increasing the primary energy supply. This will be realized through innovations that accelerate deployment of GHG-free primary energy and advance both new and nascent technologies.
- **Intermodal Energy Superhighway:** The goal is to develop an intermodal energy superhighway to transfer energy through several modalities—not just electrical power. A wide range of primary energy will be transferred through various networks (e.g., electrical, chemical, and thermal) designed to support its efficient, reliable, and inexpensive distribution.
- **Carbon as a Sustainable Building Block of the Future:** ARPA-E envisions a path to a transition from carbon as a source of unsustainable energy to a source of valuable materials. This will be realized through innovations, including engineering plants and algae into "living refineries" of atmospheric carbon; transforming fossil refineries into low-GHG materials factories; applying advanced carbon allotropes to energy technologies and sequestration; and scaling up new polymers that are recyclable by design.

You can access more information about Vision OPEN 2024 on [ARPA-E eXCHANGE](#). *ARPA-E advances high-potential, high-impact clean energy technologies across a wide range of technical areas that are strategic to America's energy security. [Learn more](#) about these efforts and ARPA-E's commitment to ensuring the United States continues to lead the world in developing and deploying advanced clean energy technologies.*

Dear Colleagues:

Effective May 20, 2024, the U.S. National Science Foundation (NSF) made a number of system updates in accordance with implementation of the revised *Proposal & Award Policies & Procedures Guide* (PAPPG) ([NSF 24-1](#)) for proposals submitted or due on or after May 20, 2024. Please see the [Summary of Changes to the PAPPG \(NSF 24-1\)](#) and view the [NSF Proposal & Award Policy Updates \(NSF 24-1\) webinar](#).

System Enhancements to Support the PAPPG (NSF 24-1):

New Foreign Financial Disclosure Report Portal in Research.gov

- A new Foreign Financial Disclosure Report (FFDR) portal has been deployed in Research.gov to support post-award FFDR requirements applicable to Institutions of

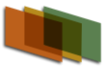


Higher Education (IHEs) that receive an award or funding amendment to an existing award made on or after May 20, 2024. Refer to (PAPPG) [Chapter VII.D.3](#) for policy guidance.

- A new FFDR Preparer role has been added in Research.gov Account Management for the preparation and submission of the required reports. NSF has assigned this new role to all individuals with an existing Authorized Organizational Representative (AOR) role as of May 20, 2024, to assist the research community with the first reporting period for the new FFDR requirement. Organizational Administrators can add or remove the FFDR role for individuals within their organizations at any time.
- A Research.gov FFDR demo site is available for use through Friday, June 28th in order to permit FFDR preparers an opportunity to become acquainted with the new functionality prior to the opening of the first reporting period on July 1, 2024.
- The demo site has the same functionality as the actual reporting site. However, system-generated emails and report submission functions are disabled in the demo site.
- Only individuals with the FFDR Preparer role can access the demo site. After signing into [Research.gov](#), individuals with the FFDR Preparer role will select the Foreign Financial Disclosure Report (FFDR) link under "Manage Financials" on the Research.gov homepage.
- All FFDR test data entered on the demo site from May 20, 2024, until the demo site closes at 8:00 PM ET on June 28, 2024, will be deleted.
- NSF will not be able to recover any FFDR test data entered while the demo site is open and deleted by NSF after the demo site closes.
- Information entered on the demo site cannot be submitted to NSF.
- Information entered on the demo site cannot be transferred to the actual FFDR portal.
- Visit the new Research.gov [About Foreign Financial Disclosure Report page](#) for training resources including Frequently Asked Questions (FAQs) and a how-to guide with step-by-step instructions and associated screenshots.
- Save the dates for upcoming FFDR outreach opportunities. Registration will be available in June.
- FFDR Webinar & Demo:
 - July 9th at 2:00 – 3:00 PM ET
- FFDR Virtual Office Hours:
 - July 16th at 2:00 – 3:00 PM ET
 - July 31st at 2:00 – 3:00 PM ET

Biographical Sketch and Current and Pending (Other) Support

- NSF implemented the National Science and Technology Council (NSTC)-approved Common Forms for the biographical sketch and current and pending (other) support for individuals identified as senior/key personnel.
- The revised formats are in [SciENCv](#) and must be used for proposals submitted or due on or after May 20, 2024. The Research.gov Project Reporting System will also enforce use of



the revised current and pending (other) support format when uploaded in annual and final annual project reports.

- Research.gov and Grants.gov will generate a **compliance** error message if a proposer or awardee attempts to upload a prior version of either the biographical sketch or the current and pending (other) support format or a PDF not generated in SciENcv.
- Research.gov and Grants.gov will no longer enforce a page limitation for the biographical sketch per PAPPG **Chapter II.D.2.h.(i)**.
- Refer to the following resources for more information:
- NSF **Biographical Sketch** and **Current and Pending (Other) Support** websites
- **NSTC Pre-award and Post-award Disclosures Relating to the Biographical Sketch and Current and Pending (Other) Support**
- **Implementing the Common Forms for the Biographical Sketch and Current and Pending (Other) Support** (April 25, 2024 webinar)

Synergistic Activities

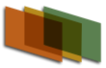
- The Synergistic Activities section has been removed from the Biographical Sketch. This information must now be uploaded as a separate one-page document by individuals designated as senior/key persons as part of the required senior/key personnel documents in Research.gov and Grants.gov.
- This document is not created in SciENcv.
- See PAPPG **Chapter II.D.2.h(iv)** for additional information.

New Malign Foreign Talent Recruitment Program Certifications

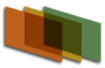
- Individuals identified as senior/key personnel must certify that they are not a party to a Malign Foreign Talent Recruitment Program per PAPPG **Chapter II.D.1.e(ii)**. This new certification is included on both the biographical sketch and current and pending (other) support forms in SciENcv.
- AORs must certify upon proposal submission in Research.gov and Grants.gov that all senior/key personnel have been made aware of and complied with the requirement that they are not a party to a Malign Foreign Talent Recruitment Program in accordance with PAPPG **Chapter II.D.1.d(ix)**.

Additional Updates

- The Mentoring Plan requirement has been expanded to include graduate students. Research.gov and Grants.gov will enforce that a Mentoring Plan not to exceed one page is uploaded for proposals when there is funding for graduate students and/or postdoctoral scholars. Refer to PAPPG **Chapter II.D.2.i(i)**.
- A new proposal type for Research Opportunity Awards for Predominantly Undergraduate Institutions (ROA-PUI) has been enabled in the Research.gov Supplemental Funding Request Submission System. See PAPPG **Chapter II.F.14**.



- A new Tribal Nations checkbox has been added on the proposal Cover Sheet to indicate if there are "Potential Impacts on Tribal Nations." If this box is checked, Research.gov and Grants.gov will enforce that up to two documents are uploaded. Please see PAPPG [**Chapter II.E.10.**](#) for documentation requirements.
- Three new products have been enabled in annual and final annual project reports in Research.gov: Interventions (e.g. clinical or educational), New Business Creations, and Training and Professional Development Materials or Courses.
- A new Individual Development Plan certification has been added as part of the annual reporting process to certify that each graduate student or postdoctoral scholar has an Individual Development Plan. This certification is completed by the Principal Investigator (PI) or co-PI in Research.gov.



New Funding Opportunities

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New Funding Posted Since May 15 Newsletter

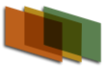
User Note: URL links are active on date of publication, but if a URL link breaks or changes, a Google search on the key words will typically take you to a working link. Also, entering a grant title and/or solicitation number in the Grants.gov search box will work as well.

Fiscal Year 2024 National Domestic Preparedness Consortium (NDPC)

The goal and mission of the NDPC is to enable communities to address specific evolving and emerging threats and hazards and close capability gaps through development and delivery of learning solutions that strengthen the nation's preparedness. The NDPC identifies, develops, tests, and delivers training to state, local, tribal, and territorial (SLTT) emergency management and emergency response communities, provides on-site and mobile training at the performance, management, and planning levels, and facilitates the delivery of training by other training partners of FEMA and DHS. FEMA and NDPC members work together to address long-term trends that impact national preparedness - including rising disaster costs, new technology, an older and more diverse population, and emerging threats. **The NDPC program objectives are: Strengthen community resilience through training that addresses threats to the homeland including natural, human-caused, and technological; Operate as an integrated, networked community of training partners that maximizes resources for the greatest achievable outcomes; Optimize residential and mobile training using innovative learning technology and training methods; Support FEMA strategic priorities to instill equity as a foundation of emergency management and lead whole of community climate resilience.** FEMA is committed to reducing complexity, increasing efficiency, and improving outcomes. In simple terms, the training return on investment (ROI) is expressed as the benefit to cost ratio for individuals, teams, departments, jurisdictions, and regions across the nation to reach and maintain fully qualified/mission capable status. In practice, training ROI is difficult to measure. The cost of training varies significantly depending upon several variables including delivery format (i.e., online, indirect/train-the-trainer, mobile, resident/on-campus) and competency level (i.e., awareness, performance/operations, management). FEMA uses a systematic approach to optimize the national preparedness training portfolio, align resources to address capability gaps through the most effective and efficient means available, and ensure a sound ROI from the local to the national level. Collaboration with FEMA's training partners is integral to that effort. **Applicants can submit applications for this funding opportunity through FEMA Grants Outcomes (GO). Access the system at <https://go.fema.gov/> Due July 12.**

Chronic, Noncommunicable Diseases and Disorders Research Training (NCD-Lifespan)

The Chronic, Noncommunicable Diseases and Disorders Across the Lifespan: Fogarty International Research Training Award program supports collaborative research training between institutions in



the U.S. and low-and middle-income countries (LMICs), defined by the World Bank classification system . This institutional research training program aims to sustainably strengthen the research capacity of the LMIC institutions, and to train in-country experts to conduct research on chronic, noncommunicable diseases and disorders, with the ultimate goal of implementing evidence-based interventions relevant to their countries. Examples of the noncommunicable diseases and disorders across the lifespan addressed by the program include, but are not limited to: mental health/ illness, neurological, alcohol and drug addiction and abuse, dental, craniofacial and developmental disorders, cancer, cardio- and cerebrovascular disease and stroke, chronic lung disease and diabetes. Research training is encouraged that emphasizes lifecycle studies and early life determinants of chronic diseases (including genetic, epigenetic, environmental and lifestyle factors), co-morbid conditions, implementation science and common risk factors and interventions relevant to multiple conditions and their prevention. **Letter of intent due dates (optional, non-binding): 30 days before the application due date; Application due date: July 15.**

Global Infectious Disease Research Training (GID)

The Global Infectious Disease (GID) research training program addresses research training needs related to infectious diseases that are predominantly endemic in or impact upon people living in developing countries. The training programs include a variety of research training options to match the needs of the developing country institution. Program focus on a major endemic or life-threatening emerging infectious disease, neglected tropical disease, infections that frequently occur as a co-infection in HIV infected individuals, or infections associated with noncommunicable disease conditions of public health importance in LMICs. The ultimate goal is to build a critical mass of researchers and support staff to conduct independent infectious disease research in developing country institutions. Training programs may include:

- Long-term (master's or doctoral degree and other training that is six months or longer) training for the full range of skills necessary to support research and research administration with the understanding that the focus of thesis and training-related research will be in their country.
- Medium-term (three- to up to six-months) training or mentoring, including specialized clinical, laboratory, research or administrative/business skills necessary to support research that is planned or ongoing.
- Short-term (less than three months) training or mentoring that focuses on research methodology, laboratory skills necessary to support research ethics and compliance issues, program and grants administration and financial management, grant writing, preparation of scientific manuscripts, data management, informatics, and other relevant areas.
- Institutional capacity-building efforts such as in-country training workshops in advanced research techniques, distance learning and informatics.
- Advanced in-country mentored research undertaken by the trainee in their home country upon completion of his/her initial period of long-term training under the program.

Due August 6.

The Enhancing Agricultural Opportunities for Military Veterans

Program provides grants to nonprofits to increase the number of military veterans gaining knowledge and skills through comprehensive, hands-on and immersive model farm and ranch



programs that lead to successful careers in the food and agricultural sector. The program encourages the development of training opportunities specifically designed for military veterans. AgVets projects will offer onsite, hands-on training and classroom education leading to a comprehensive understanding of successful farm and ranch operations and management practices. Projects may also offer workforce readiness and employment prospects for service-disabled veterans. Ensuring there are pathways for military veterans interested in pursuing careers in agriculture – regardless of age or production choice – strengthens agricultural production and rural economies across the United States. NIFA requests applications for the AgVets to provide grants to nonprofit organizations for training programs and services to establish and enhance farming and ranching opportunities for military veterans. For more information, read the [Enhancing Agricultural Opportunities for Military Veterans Competitive Grants Program funding opportunity](#). **Application deadline is July 11.**

[Nourishing Next Generation Agrifood Breakthroughs](#)

On June 11, 2024, Secretary Vilsack announced the “[Nourishing Next Generation Agrifood Breakthroughs](#)” Innovation Challenge. Presented in partnership with the Foundation for Food and Agriculture Research (FFAR), this challenge will fund selected dynamic and disruptive research projects and technologies to advance nutrition security. Competitive proposals will simultaneously address themes of human nutrition and health; climate-smart agriculture; and social equity, justice and opportunity. A total of \$1-2 million will be awarded across multiple teams and projects to pursue unconventional ideas with the potential to produce major breakthroughs. To find out more, register for the information webinar, and view the Request for Application, you may visit the following link: [Foundation for Food and Agriculture Research Innovation Challenge](#) page.

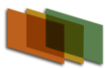
Applications are due July 29.

[The National Needs Graduate and Postgraduate Fellowship Grants](#)

Program supports training students for master's and doctoral degrees in food, agricultural and natural resource sciences; and Special International Study or Thesis/Dissertation Research Travel Allowances for eligible USDA National Needs Fellowship beneficiaries. Awards are specifically intended to support traineeship programs that engage outstanding students to pursue and complete their degrees in USDA mission areas. For more information, read the National Needs Graduate and Postgraduate Fellowship Grants funding opportunity. **Application deadline is August 13.**

[Mechanistic Investigations into ADRD Associated Protein Structures in Biological Settings \(Ro1 - Clinical Trial Not Allowed\)](#)

This Notice of Funding Opportunity (NOFO) supports studies proposing to utilize methodologies for in-cell structural biology to address the mechanistic insights and causal cellular and molecular relationships between molecular pathology and Alzheimer’s disease-related dementias (ADRD) clinical phenotypic outcomes. The applications are expected to focus on determining structures of ADRD-linked macromolecular in native (healthy and pathological) settings. The proposed methodology is expected to provide high-resolution information on the identity, dynamics and relative abundance of macromolecular species associated with ADRD and how pathological environments influence dynamics and structural conformations. Studies in response to this NOFO



can also include the development of in situ research tools and resources to further characterize and validate the structural findings. The long-term goal of this funding opportunity is for these structural studies in the native cellular environment to inform efficient tools development and designs that better identify and monitor the accumulation of dysfunctional proteins in patients, as well as for other diagnostic, treatment response, therapeutic development and other related applications. **Due Sept. 4.**

Composting and Food Waste Reduction (CFWR) Pilot Project

Department of Agriculture

Natural Resources Conservation Service

The U.S. Department of Agriculture - U.S. Department of Agriculture - Natural Resources Conservation Service - NHQ - Office of Urban Agriculture and Innovative Production (OUAIP) is collaborating with National Institute of Food and Agriculture (NIFA) through an interagency agreement for implementation of the Composting and Food Waste Reduction (CFWR) Pilot Project Cooperative Agreement Program. **Due Sept. 4.**

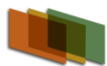
Solicitations Remaining Open from Last Newsletter

Open Solicitations and BAAs

Correctness for Scientific Computing Systems (CS2) | NSF 24-571

Correctness for Scientific Computing Systems (CS2) is a joint program of the National Science Foundation (NSF) and the Department of Energy (DOE). The program addresses challenges that are both core to DOE's mission and essential to NSF's mission of ensuring broad scientific progress. The program's overarching goal is to elevate correctness as a fundamental requirement for scientific computing tools and tool chains, spanning low-level libraries through complex multi-physics simulations and emerging scientific workflows.

At an elementary level, correctness of a system means that desired behavioral properties will be satisfied during the system's execution. In the context of scientific computing, correctness can be understood, at both the level of software and hardware, as absence of faulty behaviors such as excessive numerical rounding, floating-point exceptions, data races deadlocks, memory faults, violations of specifications at interfaces of system modules, and so on. The CS2 program puts correctness on an equal footing with performance, the focus of current scientific computing research. This program envisions the necessity of proving correctness even in performant scientific computing systems. Such correctness proofs themselves might rely upon multiple factors, including correctness of static and runtime program analyses. Recognizing that many scientific computing applications are inherently statistical, use probabilistic or randomized algorithms, and/or deal with uncertain data, probabilistic notions of correctness may be needed. It is also critical to realize that correctness guarantees are provided with respect to some pre-defined system model. For many reasons, including misspecification, approximation, and defect, the state space allowed by real systems might depart from that model. When this happens, the ability to probe the system to isolate the discrepancy is a key challenge in many domains.



CS2 requires close and continuous collaboration between researchers in two complementary areas of expertise. One area is scientific computing, which, for this solicitation, is broadly construed to include: models and simulations of scientific theories; management and analysis of data from scientific simulations, observations, and experiments; libraries for numerical computation; and allied topics. The second area is formal reasoning and mechanized proving of properties of programs, which, for this solicitation, is broadly construed to include automatic/interactive/auto-active verification, runtime verification, type systems, abstract interpretation, programming languages, program analysis, program logic, compilers, concurrency, stochastic reasoning, static and dynamic testing, property-based testing, and allied topics. **Due August 13.**

Molecular Foundations for Sustainability: Sustainable Polymers Enabled by Emerging Data Analytics (MFS-SPEED)

The Molecular Foundations for Sustainability: Sustainable Polymers Enabled by Emerging Data Analytics program (MFS-SPEED) is a cross-directorate funding call in response to The National Defense Authorization Act (NDAA) for Fiscal Year (FY) 2021 and the 2022 CHIPS and Science Act. It is supported by the NSF Directorates for Mathematical and Physical Sciences (MPS) and Technology, Innovation, and Partnerships (TIP), and five industry partners: Procter & Gamble, PepsiCo, BASF, Dow, and IBM.

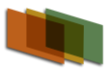
The goal of MFS-SPEED is to support fundamental research enabling the accelerated discovery and ultimate manufacturing of sustainable polymers using state-of-the-art data science, and to enhance development of a cross-disciplinary workforce skilled in this area. In particular, through this solicitation the research community is encouraged to address the discovery and elaboration of new sustainable polymers or sustainable pathways to existing polymers by the creation and use of a data-centric environment where research projects are:

- (1) focused on new approaches to predicting structure and properties of polymers and advanced soft materials,
- (2) with insights enabled by data analytics including Artificial Intelligence/Machine Learning;
- (3) This includes more efficient, scalable preparation of monomers and polymers using existing or new synthetic routes
- (4) and this call aims to train a technical workforce that leverages data analytics to create sustainable polymers and soft materials.

Molecular Foundations for Sustainability: Sustainable Polymers Enabled by Emerging Data Analytics (MFS-SPEED,) research grants - Awards will be supported in FY24/25 up to \$2M per award for up to a three-year grant period, commensurate with the scope and team size. This program seeks to fund collaborative team research that transcends the traditional boundaries of individual disciplines to achieve the program goals. **January 16 2025** - Deadline date

Cyberinfrastructure for Public Access and Open Science (CI PAOS)

The Cyberinfrastructure for Public Access and Open Science (CI PAOS) program within the Office of Advanced Cyberinfrastructure (OAC) aims to catalyze new and transformative socio-technical partnerships supporting research data infrastructure ecosystems across domains through early-



stage collaborative activities between cyberinfrastructure researchers, scientists, research computing experts, data management experts, research labs, university libraries, and other communities of practice. The CI PAOS program supports the NSF Public Access Initiative by encouraging innovation across the CI ecosystem to address accessibility, discoverability, reliability, reproducibility, sustainability, and utility of data products in alignment with NSF and national goals for public access and open science [See: [NSF Public Access Initiative](#), [Office of Science and Technology Policy Memorandum on Ensuring Free, Immediate, and equitable Access to Federally funded Research](#), and [Desirable Characteristics of Data Repositories for Federally Funded Research](#)]. CI PAOS builds on previous investments including those through Dear Colleague Letters [NSF19-069](#), [NSF20-068](#), [NSF 23-018](#), and the FAIROS Research Coordination Networks (RCN) program solicitation ([NSF 22-553](#)). NSF accepts proposals pursuant to this Program Description year-round. From time to time, NSF may also issue Dear Colleague Letters to encourage proposals on special thematic interests and opportunities related to this program.

Partnerships for the Development of Tools to Advance Therapeutic Discovery for Select Antibiotic-Resistant Gram-Negative Bacteria (R01 Clinical Trial Not Allowed)

The purpose of this Notice of Funding Opportunity (NOFO) is to support milestone-driven projects focused on developing and utilizing novel predictive models, assays, tools, and/or platforms based on penetration and efflux of small molecules to facilitate therapeutic discovery for select Gram-negative bacterial pathogens: carbapenem-resistant *Acinetobacter*, carbapenem-resistant Enterobacterales (CRE), and multidrug-resistant *Pseudomonas aeruginosa*. **Open Date (Earliest Submission Date). July 20, 2024; Letter of Intent Due Date(s), 30 days prior to the application due date.**

Probability

The Probability Program supports research on the theory and applications of probability. Subfields include discrete probability, stochastic processes, limit theory, interacting particle systems, stochastic differential and partial differential equations, and Markov processes. Research in probability which involves applications to other areas of science and engineering is especially encouraged. Conferences: Principal Investigators should carefully read the program solicitation "Conferences and Workshops in the Mathematical Sciences" (link below) to obtain important information regarding the substance of proposals for conferences, workshops, summer/winter schools, and similar activities. Conference and workshop proposals should be submitted eight months before the requested start date. **Due September 17.**

IUSE/Professional Formation of Engineers: Revolutionizing Engineering Departments (IUSE/PFE: RED)

Revolutionizing Engineering Departments (hereinafter referred to as RED) is designed to build upon previous efforts in engineering education research. Specifically, previous and ongoing evaluations of the NSF Engineering Education and Centers Division program and its predecessors, as well as those related programs in the Directorate for STEM Education, have shown that prior investments have significantly improved the first year of engineering students' experiences, incorporating engineering material, active learning approaches, design instruction, and a broad introduction to professional skills and a sense of professional practice - giving students an idea of



what it means to become an engineer. Similarly, the senior year has seen notable change through capstone design experiences, which ask students to synthesize the technical knowledge, skills, and abilities they have gained with professional capacities, using reflective judgment to make decisions and communicate these effectively. However, this ideal of the senior year has not yet been fully realized, because many of the competencies required in capstone design, or required of professional engineers, are only partially introduced in the first year and not carried forward with significant emphasis through the sophomore and junior years.

The Directorates for Engineering (ENG) and STEM Education (EDU) are funding projects as part of the RED program, in alignment with the Improving Undergraduate STEM Education (IUSE) framework and Professional Formation of Engineers (PFE) initiative. These projects are designing revolutionary new approaches to engineering education, ranging from changing the canon of engineering to fundamentally altering the way courses are structured to creating new departmental structures and educational collaborations with industry. A common thread across these projects is a focus on organizational and cultural change within the departments, involving students, faculty, staff, and industry in rethinking what it means to provide an engineering program.

Proposals are especially encouraged that address areas of increased national interest including but not limited to advanced manufacturing, advanced wireless, artificial intelligence, biotechnology, microelectronics and semiconductors, net zero technologies, sustainability, systems engineering, and quantum engineering. **Due September 24.**

Education Activities for Responsible Analyses of Complex, Large-Scale Data (R25-Clinical Trial Not Allowed)

The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs. To accomplish the stated over-arching goal, this NOFO will support of educational activities with a primary focus on: Courses for Skills Development and Curriculum or Methods Development. The goal of this NIDA R25 program is to support training and educational activities for responsible analyses of complex large-scale data involving brain, behavioral, genomic, and socioenvironmental data that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral, and clinical research needs. This NOFO requires a Plan for Enhancing Diverse Perspectives (PEDP), which will be assessed as part of the scientific and technical peer review evaluation. Applications that fail to include a PEDP will be considered incomplete and will be withdrawn. Applicants are strongly encouraged to read the NOFO instructions carefully and view the available [PEDP guidance material](#). Letter of Intent Due Date(s): **November 18, 2024**

The Artificial Intelligence, Formal Methods, and Mathematical Reasoning (AIMing)

This program seeks to support research at the interface of innovative computational and artificial intelligence (AI) technologies and new strategies/technologies in mathematical reasoning to automate knowledge discovery. Mathematical reasoning is a central ability of human intelligence that plays an important role in knowledge discovery. In the last decades, both the mathematics and computer science communities have contributed to research in machine-assisted mathematical reasoning, encompassing conjecture, proof, and verification. This has been in the



form of both formal methods and interactive theorem provers, as well as using techniques from artificial intelligence. Recent technological advances have led to a surge of interest in machine-assisted mathematical reasoning from the mathematical sciences, formal methods, and AI communities. In turn, advances in this field have potential impact on research in AI. **Due June 3.**

Confronting Hazards, Impacts and Risks for a Resilient Planet (CHIRRP)

June 6 - Target date; Concept outlines must be submitted 30 days in advance of full proposal.

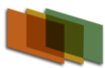
The Confronting Hazards, Impacts and Risks for a Resilient Planet Program (CHIRRP) invites projects focusing on innovative and transformative research that advances Earth system hazard knowledge and risk mitigation in partnership with affected communities. Hazards compounded by changing climates, rising populations, expanding demands for resources, aging infrastructure, and increasing reliance on technology are putting our economy, well-being, and national security at risk. Researchers, academics, and community leaders will work together to develop community-driven research questions and actionable, science-based solutions that increase community resilience now and in the future. CHIRRP projects are expected to advance understanding, forecasting and/or prediction of future Earth system hazards and risks, engage communities in development of research questions and approaches, and produce actionable, science-based solution pathways for adaptation methodologies, products, and services. CHIRRP projects may evaluate a single or system of cascading hazards, impacts, and risks at a local, regional, or global scale through the lens of transformative earth system science research. Competitive projects will engage community partners at all stages of a project from development to implementation. CHIRRP currently supports planning, conference, RCNs, EAGER, and RAISE proposals that support development of community partnerships, provide training for effective community engagement, catalyze ideas, and/or support the initial conceptualization, planning and collaboration activities aimed at formulating new and sound plans for future large-scale projects.

CHIRRP Elements

CHIRRP projects will demonstrate convergence of three essential elements: (1) Equitable Community Partnerships; (2) an Earth System Science approach to advance knowledge of hazards, impacts, and risks and (3) Actionable Solutions that increase resilience. The initiative seeks solutions to existing as well as next-generation Earth system hazards¹.

Build Equitable Community Partnerships: CHIRRP projects will serve a community and equitably co-produce project research questions and solutions. CHIRRP teams will bring together community members with direct knowledge of hazard impacts and community priorities and researchers with expertise in the natural and human dimensions of the Earth system. Partners may include, but are not limited to, local governments, Tribal Nations, civil society organizations, youth groups, and non-government organizations (NGOs). Robust partnerships are responsive to community priorities, may involve a social science component, and lead to actionable solutions that increase community resilience.

Advance Earth System Science: Generating practical and foundational knowledge on many of the nation's most urgent challenges requires a systems approach to understand the highly interdependent and complex natural and human components of the Earth system. CHIRRP projects will innovate and advance Earth System Science approaches that explore dynamic interactions and couplings among natural and social processes that affect Earth's capacity to



sustain the well-being of communities, infrastructure, and national security.

Evaluate Actionable Science-Based Solutions: CHIRRP deliverables include co-produced innovative, science-based actionable solution pathways that mitigate future hazards, impacts, and risks. Multiple solutions may exist, and new solutions may emerge in the future. CHIRRP projects will inform pathways to resilience through evaluation of different solutions informed by the advancement of earth systems knowledge delivered from the project. An understanding of risk, vulnerability and resilience necessarily entails an understanding of relevant social dynamics including methods and analysis to identify how the impacts of hazards may disproportionately affect specific segments of a community or region. Solutions should be responsive to community priorities, including objectives such as reducing Earth system hazard related risk, increasing resilience, and advancing equity.

Harnessing Artificial Intelligence and Polypharmacology to Discover Pharmacotherapeutics for Substance Use Disorders

The goal is to leverage AI/ML tools to identify pharmacotherapeutic development candidates with lower toxicity and higher efficacy to prevent or treat SUDs. Molecules may include new chemical entities, investigational compounds, and repurposed marketed medications. AI/ML tools can pinpoint the most promising targets, design effective ligands based on predicted drug-likeness, and guide in vitro and in vivo assays to assess the effects of these ligands on biological targets and functions. Applicants should propose and conduct activities that use AI/ML tools to streamline, enhance decision-making, and accelerate the identification of SUD pharmacotherapeutics.

Applications may aim to conduct the following process:

- Identify and validate disease targets. Screen potential compounds to develop preliminary hits. Develop assays to test the activities of candidate compounds in vitro.
- Synthesize novel series of compounds; test efficacy and toxicities in vitro. Test pharmacokinetics and toxicity of selected compounds in relevant in vivo models.
- Conduct non-GLP in vivo toxicity and efficacy of lead compound.

Application Not Responsive to this NOFO

The following types of projects are not responsive to this NOFO and will not be reviewed :

- Applications that pursue a single target.
- Applications solely focused on alcohol use disorders.
- Applications pursuing pain as sole focus without addressing substance dependence.
- Applications that do not propose using computer-based approaches to augment drug discovery efforts. **Due June 15.**

NCCIH Natural Product Mid Phase Clinical Trial

This [Notice of Funding Opportunity](#) (NOFO) encourages applications for investigator-initiated mid-phase clinical trials of natural products (i.e., botanicals, dietary supplements, and probiotics), which have a strong scientific premise to justify further clinical testing. For this NOFO, natural products include promising nutritional regimens that standardize the amount of a specific naturally occurring nutritional compound (e.g., omega-3 fatty acids, anthocyanidins, or polyphenols) and have compelling preliminary evidence. All applications submitted under this NOFO must be



supported by sufficient preliminary data demonstrating bioavailability (if applicable) and documentation that the natural product produces a reproducible and measurable impact on target engagement (i.e., measure of the mechanism of action). Only in cases when it is not possible/practical to measure target engagement in the patient population of interest or when there is a fundamental understanding of the products mechanism of action will this preliminary data requirement be waived. Applications submitted to this NOFO should propose a mid-phase clinical trial to do the following: determine the optimal dose or formulation of a given natural product for use in a future multi-site efficacy trial; or determine which patient phenotypes will be responders versus non-responders to the natural product to inform inclusion/exclusion criteria of a future efficacy trial. Clinical trials submitted under this NOFO are expected to be hypothesis based, milestone-driven, and directly related to the research priorities and mission of NCCIH. This NOFO will not support single-site or multi-site efficacy or effectiveness trials, nor will it support trials to test natural products for the treatment or prevention of cancer. Applicants are encouraged to contact the appropriate NCCIH Scientific/Research contact for the area of science for which they are planning to develop an application prior to submitting. **Open until Nov. 13, 2026.**

Research on the Impact of and Methods for Implementing Regional Genomic Medicine eConsult Services (U01 Clinical Trials Optional)

This Notice of Funding Opportunity (NOFO) invites applications for sites to participate in the Genomic Medicine eConsult Research Network, hereafter referred to as the 'eConsult Network.' The eConsult Network will consist of 2-3 sites working with NHGRI to conduct research on the impact of and methods for implementing regional clinician-to-clinician genomic medicine electronic consult (eConsult) services. Specifically, sites will be funded to research how to best design, implement, and sustain regional genomic medicine eConsult services; provide outreach to potential users, including those at underserved settings; and assess the impact on key stakeholders while developing successful implementation strategies and resources that can be broadly shared and adopted. **Open April 30.**

Solutions to Enable Regional Genomic Medicine eConsult Services (R43/R44 Clinical Trial Optional)

This Notice of Funding Opportunity (NOFO) invites applications from eligible small businesses to develop solutions for commercialization that can be used to enable regional clinician-to-clinician genomic medicine eConsult services. Specifically, we seek products, such as technologies or services, that will allow for the development and sustainment of eConsult services. **Open April 30.**

USDA/NIFA Equipment Grants Program

The Equipment Grant Program (EGP) serves to increase access to shared-use special purpose equipment/instruments for fundamental and applied research for use in the food and agricultural sciences programs at institutions of higher education, including State Cooperative Extension Systems. The program seeks to strengthen the quality and expand the scope of fundamental and applied research at eligible institutions, by providing them with opportunities to acquire one major piece of equipment/instruments that support their research, training, and extension goals and may be too costly and/or not appropriate for support through other NIFA grant programs. The EGP does not support the acquisition of suites of equipment to outfit research laboratories /facilities or to conduct independent experiments simultaneously. Similarly, the EGP does not fund common, general purpose ancillary equipment that would normally be found in a laboratory and/or is relatively easily procured by the organization or through other NIFA grant programs. Rather, it is



intended to help fund items of equipment that will upgrade infrastructure. Moreover, EGP does not fund research projects, including research that uses the equipment acquired with support from the program nor does it support the operation and maintenance of facilities. **Due May 3.**

FY24 Long Range Broad Agency Announcement (BAA) For Navy And Marine Corps Science And Technology N00014-24-S-B001

This publication constitutes a Broad Agency Announcement (BAA) for awards by the Office of Naval Research (ONR) Contact and Grants Awards Management Division, ONR Code 25 (or others approved by Code 25), ONR Global (ONRG) and the Marine Corps Warfighting Lab (MCWL), as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2) and 35.016 and by the Office of the Under Secretary of Defense for Acquisition and Sustainment Guide to Research Other Transactions Under 10 U.S.C. 4021 (JUN 2023 and the Other Transaction Guide version 2.0 dated July 2023. It also constitutes a merit-based, competitive procedure, in accordance with the Department of Defense Grant and Agreement Regulations (DoDGARS), at 32 CFR 22.315(a). A formal Request for Proposals (RFP), solicitation, and/or additional information regarding this announcement will not be issued. Unless indicated otherwise, any references to ONR within the BAA refers to ONR, ONRG and MCWL. **Open until September 30, 2024.**

Notice of Special Interest: Exploratory Cancer Immunology Projects and Technologies

Through this Notice of Special Interest (NOSI) on Exploratory Cancer Immunology Projects and Technologies (ExCITe), the National Cancer Institute intends to **encourage R21 applications proposing innovative high-risk/high-reward research projects**, that test novel hypotheses or develop novel technologies, to advance our understanding of cancer immunology. Research projects should focus on fundamental areas of cancer immunology, including innate and adaptive immune responses, tumor-immune ecosystems and their dynamic interactions, the immune response to metastases, systemic immune networks, immunosurveillance, tumor immune evasion, or immunomodulation. Projects should be distinct in scope and focus from those supported through the traditional R01 mechanism. ExCITe studies may involve considerable risk but have the potential to lead to research breakthroughs or the development of novel techniques, agents, methodologies, models, or applications that could have a major impact in cancer immunology and cancer immunotherapy research.

Background

The field of cancer immunology aims to decipher the intricate nature of molecular and cellular interactions that orchestrate the cancer-immune ecosystem across the continuum of cancer initiation, progression, and metastasis. Although various immunotherapy approaches have revolutionized cancer treatment, there is a critical need to better understand and overcome important hurdles that have limited long-term outcomes to a few cancer types and subsets of patients. Through the ExCITe NOSI, the NCI aims to promote and support bold research ideas and novel technologies that could ignite new paradigms in cancer immunology and lead to improved and more widely available immunotherapy approaches for cancer patients.

Research Objectives

R21 applications submitted through the ExCITe NOSI should propose innovative high-risk/high-reward research projects, that test novel hypotheses or develop novel technologies, to advance



our understanding of cancer immunology. Applicants should propose research studies to address fundamental aspects in the field of tumor immunology and/or innovative ways to enhance anti-cancer immunity. Innovative approaches that target both primary tumor and metastases are encouraged. Establishing new or improved in vivo/in vitro models to study the dynamics of tumor-immune ecosystems are also encouraged.

Examples of projects NOT responsive to this NOSI:

- New biomarkers for screening or diagnostic tools, such as imaging techniques; cancer preventive agents or approaches; predictive and prognostic biomarkers for patient selection or stratification; new treatment strategies involving repurposed agents or novel combinations of interventions (including radiation) based on established mechanisms of action.
- Studies that promote mechanistic research aimed at better understanding the pathophysiology of immune-related adverse events (irAEs).
- Studies that use multidisciplinary approaches to develop bioengineering solutions in cancer.

While above-mentioned studies are not responsive to this NOSI, interested applicants may apply on the three research areas using [PAR-20-292](#), [NOT-CA-22-063](#), and [PAR-22-091](#) respectively.

Strategic Technology Office (STO) Office-wide

DARPA's Strategic Technology Office (STO) is seeking innovative ideas and disruptive technologies that provide the U.S. military and national security leaders trusted, disruptive capabilities to win in all physical domains (Air, Space, Sea, and Land) and across the spectrum of competition, from deterrence to high-end peer combat. STO seeks to carry out DARPA's mission of creating high-risk, high-reward "breakthrough" technologies with a focus on ambitious, difficult, and revolutionary projects that achieve significant changes or fundamental shifts in technical capabilities and give our warfighters new ways to fight. STO will develop and deliver solutions at a speed and scale to be operationally relevant in a relatively short time, just a few years, from the initiation of the project to proof of concept. STO is a "systems office," seeking to create new "proof-of-concept" mission systems. Its goals are to develop and demonstrate new capabilities that expand what is technically possible. **Due October 30, 2024.**

**Notice of Special Interest: Chemical Countermeasures Research Program Initiative:
Additional Research Areas of Interest focusing on Ultra-Potent Synthetic Opioids**

The scientific scope of research supported by this NIDA-CCRP Notice of Special Interest initiative includes -

- Studies on elucidating the mechanisms that contribute to the deleterious effects after acute exposure to nitazenes, a combination of UPS opioids (e.g., fentanyl and nitazenes) and UPS opioids in combination with xylazine (e.g., fentanyl and xylazine)
- Fundamental research on the non-lethal, delayed, or persistent pathophysiological effects after acute exposure to nitazenes, a combination of UPS opioids (e.g., fentanyl and nitazene) and UPS opioids in combination with xylazine (e.g., fentanyl and xylazine)



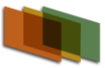
- Design and synthesis of chemical probes to gain mechanistic insights on biological targets of relevance to treat or reverse toxicities caused by nitazenes, a combination of UPS opioids (e.g., fentanyl and nitazene) and UPS opioids in combination with xylazine (e.g., fentanyl and xylazine)

Applications for this NOSI initiative are being accepted under the NIDA Notice of Funding Opportunity (NOFO) RFA-DA-23-056. Applicants are encouraged to contact the Scientific/Research Contact(s) prior to submission as they may choose to develop their research projects in one or more areas based on their expertise and feasibility (nitazenes, and/or combination of UPS opioids, and/or UPS opioids when combined with xylazine). To be considered for this initiative, applications must follow the Funding Opportunity Description that is critical to the mission of the CCRP, including the non-responsive criteria and additional considerations found within the NOFO. **Due November 29, 2024**

[BAA's remain open for one or more years. During the open period, agency research priorities may change or other modifications are made to a published BAA. If you are submitting a proposal in response to an open solicitation, as below, check for modifications to the BAA at Grants.gov or by utilizing [Modified Opportunities by Agency](#) to receive a Grants.gov notification of recently modified opportunities by agency name.]

ARMED FORCES PEST MANAGEMENT BOARD (AFPMB)

The Armed Forces Pest Management Board (AFPMB), an agency of the Department of Defense (DoD), is soliciting pre-proposals for original and innovative research designed to develop new interventions for protection of deployed military personnel from diseases caused by arthropod-borne pathogens and to improve control of bed bugs and filth flies. Diseases of significant concern include Lyme disease, malaria, dengue fever and other arboviruses. The program supports development of: (1) new toxicants or the adaptation of existing toxicants to medically relevant pests; (2) new insecticide application techniques; (3) new personal protection tools that prevent human-vector contact; (4) decision support tools and (5) novel vector surveillance tools that focus on improved control outcomes. Ideally the research would support **Advanced Technology Development** (see [DoD Financial Management Regulation Volume 2B, Chapter 5](#), DoD RDT&E Budget Activity 3) of new insecticides or improved formulations of existing insecticides for vector control, new technology or enhanced modalities of personal protection from biting arthropods, or improved efficacy and sustainability of equipment for vector surveillance and application of pesticides for vector control in a military operational environment. Research should be product-oriented, consisting of advanced research related to a particular technology or new capability, evaluation of experimental products for military uses, or research directed towards development of an existing prototype product for commercial manufacture. Research should include semi-field or field evaluation of prototype products. Research should not include testing and evaluation of commercial products. Any pesticide end use products described in the proposed research should be destined for registration by the U. S. Environmental Protection Agency (EPA). The research must be primarily applicable to the military, products should be transferable to civilian uses. The program consists of competitive grants open to principal investigators (PIs) from academia, industry, and local or state government agencies. Federal Agencies (including DoD) may apply subject to appropriate regulations. This BAA is intended to solicit pre-proposals for AFPMB for those parts of development not related to a specific system or hardware procurement in accordance with Title 2, Subtitle A, Chapter II, Part 200 CFR. The purpose of this BAA is to identify



the best available science, and as such, there are no set-asides associated with any awards resulting from this BAA. Specific areas of interest are described in the “Areas of Interest” section of this BAA. This Announcement provides a general description of project areas, including specific areas of interest, general information, evaluation and selection criteria, and proposal preparation instructions. All documentation and or attachments that are required with the submission of a full proposal, if requested, are described in the Mandatory Proposal Forms section of this announcement. Awards are typically made under grants; however, other funding opportunities may be considered. **Open to Oct. 31, 2024**



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