Oportunidades de Fondos Externos
Vicepresidencia de Recursos Externos
ACADEMIC YEAR 2024-25 / VOLUME IV
Universidad de Puerto Rico
LA MEJOR EDUCACIÓN A TU ALCANCE
SEPTEMBER 26, 2024

UPR external funding success is of utmost importance to strengthen the connection between its investigators/faculty and funding entities who have the potential to sponsor their research and academic endeavors. This publication has been developed in order to summarize funding opportunities and promote the participation of faculty and collaborative research groups in their intent to apply for external funds. Such efforts are aligned with the UPR Strategic Plan 2017-2022: A New Era of Innovation and Transformation for Student Success; Certification 50 (2016-2017) of the Governing Board, December 19, 2016. Strategic Area: Research and Creative Work. Goal 2: Increase Applications for and awards of external funds for research and creative work.

SELECTED FUNDING OPPORTUNITIES

This is a selection of identified funding opportunities for the period ending 9/26/2024 and is in no way all-inclusive of funding opportunities available. Further information has been shared with External Resource Coordinators and Research Coordinators at each UPR campus.

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1. Discovery Research PreK-12 Program Resource Center on Transformative Education Research and Translation (DRK-12 RC), NSF

Application Deadline: February 28, 2025
Award Amount: $5,000,000 over five years, pending the availability of funds

The DRK-12 Program is the only NSF program that supports applied research and development at the preK-12 level in all areas of formal STEM education. The DRK-12 Program's goal is to catalyze research and development that enhances all preK-12 teachers' and students' opportunities to engage in high-quality STEM learning experiences. Situated at the intersection of fundamental and applied research and development, the DRK-12 Program supports efforts to advance both generalizable scientific knowledge and applied classroom strategies based upon strong evidence. The DRK-12 Program invests in projects with potential to address longstanding challenges, inequities, and opportunities in formal education. It also invests in projects that anticipate and provide the foundation for future formal preK-12 STEM education.

The DRK-12 Program's objectives are to: (1) build knowledge about how to develop preK-12 students' and teachers' STEM content knowledge, practices, and skills; (2) support collaborative partnerships among STEM education researchers, STEM education practitioners, and school leaders with the goals of developing more effective practice while also extending relevant research literatures; and (3) build the field of STEM education by supporting knowledge syntheses, interdisciplinary interactions across fields and stakeholders, and the development of novel and robust ways of assessing teacher and student learning, engagement, and skills. Outcomes of DRK-12 projects can include but are not limited to promising, evidence-based products that can be used by others to support the success of all teachers and all students (e.g., curriculum, teaching and research tools, and models of collaboration).

This solicitation seeks a Resource Center on Transformative Education Research and Translation for the DRK-12 Program. The DRK-12 portfolio currently includes over 400 active awards. To understand and maximize the potential impact of these investments, a Resource Center on Transformative Education Research and Translation is needed to (1) identify and share promising resources, tools, approaches, and research findings with teachers, school leaders and administrators and policymakers for feedback and strategic use that advances both teaching practice and science; (2) facilitate communication and collaboration among current, former, and prospective DRK-12 award recipients as a means of building STEM education researchers' capacity to conduct rigorous and meaningful work across the full range of project types supported by the program; and (3) further raise the national visibility of the DRK-12 program.

It is expected that the DRK-12 Resource Center (DRK-12 RC) on Transformative Education Research and Translation will be an intellectual partner to the program in the three primary areas listed above. The DRK-12 RC is also expected to work collaboratively with NSF and the DRK-12 Program's primary communities — including formal preK-12 STEM educators, school leaders and STEM education researchers — to design, implement, and evaluate its activities in these three areas.

Program Description

Proposers submitting to the DRK-12 Resource Center on Transformative Education Research and Translation solicitation should demonstrate their capacity to plan, develop, and manage a center that supports knowledge translation between researchers and practitioners, catalyzes communication and collaboration within the research community, and provides technical support for a diverse array of research and development project types, including the identification and strategic translation of promising findings with potential for classroom use. The DRK-12 Program seeks an intellectual partner that can facilitate the strategic advancement of promising findings and practices from discovery to efficacy and implementation.

Proposers should have demonstrated expertise in STEM disciplines, rigorous education research methodologies including measurement and assessment of learning outcomes, and STEM teacher professional development. Demonstrated expertise in theoretical and conceptual frameworks that guide STEM education research, partnership development and collaboration are essential.

Resource Center activities include but are not limited to:

1. **Synthesizing and communicating about the DRK-12 Program's investments and impacts:** The RC is

expected to facilitate the broad dissemination of DRK-12 project outcomes, findings, and evidence of promising practices to various formal STEM education communities. This responsibility includes providing topically oriented synthesis with recommendations for how to advance scientific inquiry to the next phase, reports that summarize findings from funded or completed DRK-12 projects, and comprehensive reports of DRK-12 program activities and outcomes. A competitive DRK-12 RC proposal will demonstrate the project team's capacity to collect, analyze, synthesize, and disseminate public information about the DRK-12 Program to its diverse audiences.

2. **Capacity Building:** The DRK-12 Resource Center is expected to support STEM education researchers' capacity to submit competitive proposals, across the full range of project types described in the program solicitation, that advance the DRK-12 Program's mission to:

    a. share knowledge among STEM education researchers and teachers, schools, and community members;
    b. promote knowledge-, field-, and partnership-building activities;
    c. develop synergistic networks within and across the STEM education research and practice communities that can enact knowledge translation pathways.

3. **Broadening Participation:** The DRK-12 Resource Center is expected to engage geographic regions, community types, and organizations that are underrepresented in the DRK-12 portfolio. A competitive proposal will explain how the project team will use innovative modes of engagement to reach and serve a range of organizations and individuals, including EPSCoR jurisdictions.

4. **Technical Support:** The DRK-12 Resource Center on Transformative Education Research and Translation is expected to provide prospective Principal Investigators with access to information about DRK-12 Program projects, outcomes, and resources. It is also expected to provide technical assistance appropriate to the full range of DRK-12 research and development project types, especially Partnership Development, Exploratory, Impact, and Implementation and Improvement projects.

Link to Additional Information: https://new.nsf.gov/funding/opportunities/drk-12-rc-discovery-research-prek-12-program-resource-center/nsf24-602/solicitation

2. Cultural Anthropology Program - Doctoral Dissertation Research Improvement Grants (CA-DDRIG), NSF

Application Deadlines: January 15, 2025
Award Information: up to $25,000 in total direct costs

The Cultural Anthropology Program awards Doctoral Dissertation Research Improvement Grants (DDRIGs) in all areas of cultural anthropological science supported by the program. The primary objective of the Cultural Anthropology Program is to support basic scientific research on the causes, consequences and complexities of human social and cultural variability. DDRIGs support the development of the next generation of cultural anthropologists to pursue those questions.

Contemporary cultural anthropology is an arena in which diverse research traditions and methodologies are valid in investigations of human cultural variation. Recognizing the breadth of the field's contributions to science and its methodological variety, the Cultural Anthropology Program welcomes proposals for empirically grounded, theoretically engaged and methodologically sophisticated research in all sub-fields of cultural anthropology. Because the National Science Foundation's mission is to support basic research, the NSF Cultural Anthropology Program does not fund research that takes as its primary goal improved clinical practice, humanistic or philosophical understanding or applied policy. Program research priorities include, but are not limited to, research that increases our understanding of:

- Sociocultural drivers of critical anthropogenic processes such as deforestation, desertification, land cover change, urbanization and poverty.

- Resilience and robustness of sociocultural systems.
- Scientific principles underlying conflict, cooperation and altruism, as well as explanations of variation in culture, norms, behaviors and institutions.
- Economy, culture, migration and globalization.
- Variability and change in kinship and family norms and practices.
- General cultural and social principles underlining the drivers of health outcomes and disease transmission.
- Biocultural work that considers the nexus of human culture and its relationship with human biology.
- Social regulation, governmentality and violence.
- Origins of complexity in sociocultural systems.
- Language and culture: orality and literacy, sociolinguistics and cognition.
- Theoretically informed approaches to co-production in relation to scientific understandings of human variability and environmental stewardship.
- Mathematical and computational models of sociocultural systems such as social network analysis, agent-based models, multi-level models, and modes that integrate agent-based simulations and geographic information systems (GIS).
- Socio-cultural drivers of technology and technological systems such as AI, machine learning, augmented data, and platforms.

Program Description

CA Doctoral Dissertation Research Improvement Grants provide funds for items not usually available from the student's U.S. academic institution. The awards are not intended to provide the full costs of a student's doctoral dissertation research or to replace support for a student's program of graduate study that is typically provided by the student's institution. Funds may be used for valid research expenses. The funds may not be used for post-field research writing, analysis and thesis production costs. Funds may not be used for stipends, tuition or the purchase of textbooks or journals. Further details concerning allowable as well as non-allowable expenses can be found in the budgetary information section of this solicitation.

While NSF provides support for doctoral dissertation research, the student (co-PI) is solely responsible for the conduct of such research and preparation of results for publication. NSF, therefore, does not assume responsibility for such findings or their interpretation.

Link to Additional Information: https://new.nsf.gov/funding/opportunities/ca-ddrig-cultural-anthropology-program-doctoral-dissertation-research/nsf24-605/solicitation

3. Research Centers in Minority Institutions (RCMI) (U54 - Clinical Trial Optional), NIH

Application Deadlines: November 19, 2024
Expected Amount:

- **Research Projects in one focus area:** up to $1,500,000 in annual direct costs
- **Research Projects in two focus areas:** up to $2,500,000 in annual direct costs
- **Research Projects in three focus areas:** up to $3,500,000 in annual direct costs

The purpose of the Notice of Funding Opportunity (NOFO) is to solicit applications for the NIMHD Research Centers in Minority Institutions (RCMI) Program to expand the national capacity for research in the health sciences by providing cooperative agreements to institutions that offer doctorate degrees in the health professions or in a health-related science and have a documented historical mission and commitment to educating underrepresented students and for institutions that provide clinical services to medically underserved communities.

The primary goals of RCMI specialized center awards are to: (1) enhance institutional research capacity to conduct world-class basic biomedical, behavioral, population and/or clinical patient-centered or health services research; (2) enable all levels of investigators at the recipient institution to compete successfully for extramural support, especially from NIH, for

research on diseases and conditions that disproportionately impact populations that experience health disparities; (3) foster institutional environments conducive to research career development and enhancement for post-doctoral fellows, junior faculty members, and other early-stage investigators; (4) enhance the tools for and conduct of research and specifically for improving minority health and reducing health disparities; and (5) establish sustainable partnerships with community-based organizations to promote research efforts and the dissemination of research findings.

Minority health refers to distinctive health characteristics and attributes of racial and ethnic minority groups in the U.S. Minority health research is the scientific investigation of these distinctive health characteristics and attributes. Research may focus on risk or protective factors for conditions where outcomes may be worse or better, respectively, compared to an appropriate reference population, including projects that evaluate mechanisms and interventions to sustain or improve a health advantage. Research may also examine mechanisms and develop and evaluate interventions to reduce health and/or health care disparities within a particular group (or health care setting), defined as a preventable or avoidable health difference that adversely affects populations who experience greater obstacles to optimal health largely due to social, environmental, and/or economic disadvantage. Health disparities may be observed in the risks or prevalence for specific behaviors, as well as the incidence, prevalence, and mortality from conditions, diseases, and/or disorders. Health disparities also can be observed in healthcare access, quality, and utilization, and within the delivery of clinical care.

Required and Optional Cores of an RCMI Specialized Center:

The RCMI program allows flexibility at the applicant institution with respect to the types of research resources required to accomplish research and investigator development goals. The most important criterion for inclusion of any component in the proposed Center is the extent to which the activity or resource will enable the institution to achieve the stated goals.

The following components are required for each RCMI Center:

- **Overall** - provides an overview of the institutional characteristics and proposed activities of the Center to meet the institutional goals and objectives under the RCMI Program

- **Administrative Core** - must be directed by the PD(s)/PI(s) of the Center and will provide administrative and logistical support for all Center activities. In addition, this Core oversees an assessment of each proposed activity/core and the impact of the Center as a whole in terms of: 1) enhancing the institutional research capacity and environment necessary to facilitate biomedical research in the areas identified by the applicant; 2) increasing the productivity of investigators as indicated by peer-reviewed publications and discovery; and 3) increasing the institution's overall success in applying for and obtaining extramural research funding, especially from NIH.

- **Research Capacity Core: Methodology, Laboratory Technologies, Biostatistics, Data Science, Community-Engaged Methods, and Core Research Resources** - the goal is to enhance the quality and productivity of the research projects, and the pilot projects, as well as link RCMI faculty members and scholars with other researchers at the applicant institution. Applicants may request resources to assist investigators with developing design and analysis plans for studies. Such resources may include faculty-level expertise in research methodology, specialized laboratory techniques, statistics, data science, health informatics, and community-engaged methods. Applicants may also propose activities that bridge research in study design, biostatistics, and research ethics with other NIH supported centers including the Clinical and Translational Science Awards (CTSA)Program, Institutional Development Award (IDeA) Clinical and Translational Research Programs, Resource Centers for Minority Aging Research Centers (RCMAR), the Multiple Chronic Disease Research Centers led by NIMHD, RCMI Clinical Research Networks, Center for AIDS Research (CFAR) Program, NIH Community Engagement Alliance (CEAL), Diversity Centers for Genome Research Consortium led by NHGRI, Partnerships to Advance Cancer Health Equity (PACHE) led by NCI, or Community Partnerships to Advance Science for Society (ComPASS), or the NIH Climate Change and Health Initiative. If biomedical informatics resources are requested, applicants should consider both internal, intra-institution and external interoperability to allow for communication among RCMI awardees and with other research partners (e.g., universities, government, clinical research networks, and pharmaceutical companies).

- **Investigator Development Core** - supports career enhancement activities for all investigators and fosters synergy with other ongoing career development activities at the institution including any other NIH grants. Resources may be requested to support seminars, workshops, and other career enhancement activities that promote the recruitment, advancement, and retention of investigators in health-related research careers. In addition, the Core supports a Pilot Project Program for postdoctoral fellows and early-stage investigators that allows: 1) the institution's or regional partnering institution's eligible early career stage researchers to conduct their own research project that either generates preliminary data for future grant applications and/or results in a peer-reviewed research publication; or 2) completion of existing data analyses that leads to a peer-reviewed publication and informs subsequent plans for submission of grant applications; or 3) development of new technologies or approaches that will better position researchers to conduct basic biomedical research.

- **Community Engagement Core** - supports activities designed to establish long-term relationships with community-based organizations built on the foundation of mutual trust to (a) address community specific health concerns, (b) promote inclusive participation in research and recruitment and retention of study participants, and (c) disseminate findings from research projects. The core will coordinate engagement and dissemination activities with community members, partner organizations, and relevant service organizations or policymakers, as well as the scientific community. Activities will include presentation of findings from research projects and pilot projects to inform the community and translate findings into sustainable community and system-level changes at the local level and beyond.

- **Research Project(s): Maximum three projects** - Centers are expected to support up to three research projects with an explicit focus on one or more of the following scientific areas: 1) basic biomedical research, and/or 2) behavioral or social science research or population science, and/or 3) clinical or health services research. This needs to emphasize research that directly interacts with participants.

In addition to these required components, applications may also include the following optional core:

- **Recruitment Core** - this core may support the hiring of investigators who have track records of independent research support that includes current or recent support (within the last two years) by NIH R-series, P-series, and/or U-series awards, or other federal or non-federal awards and who can serve as mentors to junior investigators.

The RCMI Specialized Research Centers program has undergone a retrospective evaluation and based on that a prospective assessment plan is being developed. A prospective overall program evaluation will be conducted by RCMI Coordinating Center in collaboration with the funded RCMI Centers and NIMHD. The prospective evaluation of the overall RCMI program is distinct from an individual Center's outcome evaluation (described in Section IV). While both evaluations address Center outcomes, they differ in scope (individual award vs. national program) and have different timelines and metrics (PD/PI defined vs. programmatic goals specified below).

Assessment will be developed based on institutional changes that will include, but are not limited to:

- Increased collaborative basic biomedical, clinical, and/or behavioral research to improve minority health and/or reduce and eliminate health disparities through the implementation of pilot/developmental studies, NIH-funded studies and studies funded by other federal and non-federal agencies.
- Development of innovative research programs, new tools and technologies, and peer-reviewed publications in high impact journals as well as other indicators of scientific impact.
- Enhancement of institutional capacity for conducting biomedical research including but not limited to development of new cores and biomedical resources, increased research capacity to support multi-disciplinary research, and leveraging of resources with institutional and other NIH funded programs or consortia.

The findings of this program evaluation will determine whether the program is meeting its goals and or will need

additional modifications.

Technical Assistance Webinar

NIMHD will conduct a Technical Assistance webinar for prospective applicants on October 24th, 2024, at 1:30 PM EST. The webinar connections will open 15 minutes in advance of the start time. NIMHD staff members will provide orientation and technical assistance to potential applicants by explaining the goals and objectives of the RCMI Specialized Centers initiative and answering questions from attendees. Prospective applicants are encouraged to send questions, preferably at least 24 hours prior to the webinar, to the Scientific/Research Contact, Dr. Nathan Stinson, at stinsonn@mail.nih.gov and/or Dr. Rina Das, at dasr2@mail.nih.gov .

To Join the webinar, interested persons can use the Zoom meeting link or other connection information, as follows:

Join Zoom Meeting
https://nih.zoomgov.com/j/1616745329?pwd=xvUMT2jOwaqesG5qPwksejHfzPsGaJ.1&from=addon

Meeting ID: 161 674 5329; Passcode: 555754

Link to Additional Information: https://grants.nih.gov/grants/guide/rfa-files/RFA-MD-24-012.html

4. Pathways to Enable Open-Source Ecosystems (POSE), NSF

Application Deadlines: January 14, 2025
Anticipated Funding Amount: $27,800,000 for 30 to 50 awards

The purpose of the POSE program is to support a new pathway for translating research or innovation results by supporting the establishment of managing organizations that facilitate the creation and growth of sustainable, high-impact OSEs around already-developed open-source products, tools, and artifacts. The POSE program aims to grow the community of individuals who develop and contribute to OSE efforts, and enable pathways to intentionally transition promising, robust open-source innovations into self-sustaining OSEs that could lead to new technology products or services with broad societal impacts.

Importantly, the POSE program does not itself support further development of open-source products. A key attribute of OSEs is a distributed development model in which external intellectual content contributors use a continuous development, integration, and deployment model to develop and/or maintain the core open-source product. Projects lacking this distributed development aspect are not well suited for POSE and may be better suited for infrastructure programs. For example, a data repository with a centralized development model where external content developers only upload data would not be suitable for POSE. Likewise, the POSE program is not intended for open-source product development or focused communities with limited impact. Instead, POSE proposals are expected to build an ecosystem around an existing, robust, open-source product that has active users and contributors outside of the founding team. Note that development of open-source software specific to the advanced cyberinfrastructure of a particular scientific community may be better served as a submission to the "Transition to Sustainability" track in the NSF CSSI program. Finally, POSE is also not intended to support the development of products that are proprietary and/or intended for profit; Such efforts may be better suited for NSF's SBIR/STTR programs.

The transition from open-source research or innovation project to an OSE requires an organized and intentional approach with multiple elements. These include: (1) the vision of the founding team and a set of guiding principles, (2) one or more specific open-source products under development, (3) documented demand for the product(s) within the current technological landscape, (4) the need for adaptability and flexibility in deployment scenarios, (5) a distributed community of intellectual content developers who will drive the collaborative development of the technology, and (6) a community of users who adopt and engage with the technology. OSEs are frequently supported by a national or international community of users and developers from different sectors, including academia, non-profits, and industry. POSE strongly encourages proposers to consider mechanisms to intentionally involve all these groups.

This solicitation seeks two types of proposals:

- **Phase I: OSE Scoping and Planning Proposals:** projects for open-source research products with a small community of external users though the product may not necessarily have external content developers. The objectives of Phase I projects are to: (1) enable scoping activities that will inform the transition of promising research products that are already available in open-source formats into sustainable and robust OSEs that will have broad societal impacts, and (2) provide training to teams interested in building such an OSE.

- **Phase II: Establishment and Expansion Proposals:** projects for open-source research products with small, existing communities of external users and external content developers. The objective of Phase II projects is to support the transition of a promising open-source product into a sustainable and robust OSE. Phase II proposal teams are expected to have already conducted the scoping activities needed to develop a detailed project plan to support the community-driven distributed development and deployment of successful open-source tools into operational environments (not necessarily via a Phase I award).

For both phases, the open-source product should already (i) be publicly accessible, preferably via an open-source license (proposers are encouraged to consider licenses approved by the Open-Source Initiative) and (ii) have some external third-party users and/or external intellectual content developers. In this context the term "external" means external to the founding team. Phase II proposers are strongly urged to have an open-source license in place for their core product by the time of proposal submission.

An OSE supported by POSE, will comprise three components:

- a distributed community of intellectual content developers from academia, industry, and/or the non-profit sector.
- a community of third-party end users in research, industry, government, and/or other sectors – some of whom may also be intellectual content developers.
- a managing organization.

POSE funding will support the establishment of the managing organization whose role includes all the functions described above and whose overarching objective is to ensure sustainability of the OSE. The primary distinction between Phase I and Phase II is that Phase I scoping and planning projects are intended for organizations that need more experience and knowledge for building the distributed intellectual content developer and end user communities around an open-source product. Phase I project teams will also benefit from learning more about the non-technical roles of a POSE managing organization – e.g., corporate governance, legal and administrative functions, licensing, fundraising, etc.

Link to Additional Information: https://new.nsf.gov/funding/opportunities/pose-pathways-enable-open-source-ecosystems/nsf24-606/solicitation#pgm_desc_txt

5. Molecular Foundations for Biotechnology, NSF

Application Deadlines: December 16, 2024
Award Amount: up to $1,500,000 in total costs for a duration of up to three years

This solicitation seeks to catalyze synergies among researchers in the biological, chemical, computational, mathematical, and physical sciences to pursue creative technological approaches that address questions about RNA function in complex biological systems and harness RNA research to advance biotechnology. The program prioritizes research on how RNA processing, epitranscriptomic modification, or organization in macromolecular complexes or compartments such as condensates relates to its cellular activities.

Proposals submitted in response to this solicitation must aim to develop and provide proof-of-concept testing of tools, methodology and/or theory that accelerate fundamental discoveries about RNA structure, interactions, and functions at molecular or genome and transcriptome-wide scales. The proposed research and outcomes should have significant relevance to physiological conditions. The program will also prioritize projects with potential for biotechnology

applications that impact economic sectors such as agriculture or energy production, or help mitigate the effects of climate change, improve environmental sustainability, and/or combat global pandemics, among other societal benefits. Examples of research include, but are not limited to, approaches that:

- Identify, predict, detect, quantify, characterize and/or selectively manipulate RNA, including RNA isoforms, RNA modifications in sequence context, and non-natural RNAs.

- Enable prediction and analysis of the molecular structure and function of RNA and its modified forms, and how they interact with other molecules (including proteins, DNA, small molecules), especially in complex assemblies and compartments such as membrane less condensates.

- Develop novel computational methods, algorithms, and tools, including those that leverage machine learning/artificial intelligence, to enable data science-driven approaches to understanding RNA structure, interactions, and function.

- Discover or develop new chemical and biochemical tools, including small molecules or enzymes that target RNA and modulate its properties.

- Advance the design and synthesis of RNAs with novel form and function by leveraging the power of biological diversity and evolution.

All proposals must include innovative, interdisciplinary approaches that have the potential to drive fundamentally new directions in biotechnology and enable the bioeconomy. The research must be motivated by questions or hypotheses about RNA function in biological systems, with an emphasis on molecular and cellular science. Research that scales to systems levels is also welcome. The program is especially interested in cross-disciplinary and collaborative research that is grounded in chemical and physical science disciplines, including chemical biology, computational, statistical, or machine learning/artificial intelligence methods, and draws heavily on molecular and cellular biology disciplines, such as genetics, genomics, molecular biophysics, and systems and synthetic biology. Proposals must detail in the Data Management and Sharing Plan how the outcomes, including any new tools, will be disseminated to relevant communities to ensure broad impact. Creation of new databases or infrastructure for data storage and processing is not in the scope of this program.

NHGRI will consider applications to this solicitation as described above that accelerate genomic research focused on the structure and biology of genomes and can demonstrate utility or relevance to human or disease-relevant model organisms. NHGRI is interested in approaches that are comprehensive across the genome or are generalizable across variants, tissues, diseases, or function and that address priority areas described in the NHGRI 2020 Strategic Vision. Applications for studies relevant only to a particular disease or organ system are not in scope for NHGRI. Similarly, applications whose primary scientific objective is to understand a single biological or behavioral process, the pathophysiology of a disease, the mechanism of action of an intervention, or the direct development of therapeutic research are not in scope. NHGRI recognizes the importance of diversity in the genomic workforce, without which the promise of genomics cannot be fully achieved. NHGRI strongly encourages potential applicants to contact program staff (see Section VIII) in the early stages of application development.

Investigators are encouraged to develop collaborations for complementary expertise where necessary to enable interdisciplinary research. Proposers should construct their teams consistent with the goals of the project and the resources available. The proposal must make a compelling case for the collaborative research project and the corresponding team.

The program encourages participation from the full spectrum of diverse talent in society. Proposals from EPSCoR jurisdictions are especially encouraged.

Link to Additional Information: https://new.nsf.gov/funding/opportunities/mfb-molecular-foundations-biotechnology/nsf24-607/solicitation

6. Multilateral Partnerships Leveraging Excellence (MultiPLEx), NSF

Application Deadlines: Proposal Accepted Anytime
Award Information: budgets are not limited, but need to reflect the actual needs of the proposed project

Many of the most pressing challenges in research and innovation require collaboration across national and disciplinary boundaries to achieve important advances. A growing number of topics are best addressed on a multilateral basis, building partnerships that leverage diverse expertise, data, infrastructure, and perspectives to advance understanding on critical topics of regional or global importance. At the same time, funders, research organizations, and researchers alike typically have limited experience with multilateral partnerships.

The Office of International Science and Engineering's MultiPLEx program seeks to support visionary, and ambitious international multilateral research partnerships that are required to hasten progress in addressing grand challenges by leveraging research excellence in the U.S. and around the globe. The program also seeks to advance understanding of effective multilateral collaboration.

MultiPLEx welcomes proposals that:

- Address urgent research and/or societal challenge of global importance (including but not limited to critical and emerging technology research) and require an inherently international multilateral approach to achieve impactful research results, partnering with at least two countries other than the U.S. Proposals that engage partners across distinct geographic regions are an area of interest.
- Make clear how the proposed international collaboration will enable research advances and broader impacts that go beyond what can be accomplished by a narrower team.
- Include a diverse group of U.S. institutions and/or individuals, leveraging the full range of talent that society has to offer

MultiPLEx funds support the U.S. research team. Research partners should seek funding from their own national funding agencies or from other sources. A typical MultiPLEx award will be up to three years in duration.

Link to Additional Information: https://new.nsf.gov/funding/opportunities/multiplex-multilateral-partnerships-leveraging-excellence

7. Training and Technical Assistance for Rural, Small and Tribal Municipalities and Wastewater Treatment Systems for Clean Water Act Prevention, Reduction, and Elimination of Pollution, EPA

Application Deadline: November 25, 2024
Anticipated Funding Amount:

- **Priority Area 1:** range from $1,000,000 to $6,000,000
- **Priority Area 2:** range from $1,000,000 to $6,000,000
- **Priority Area 3:** range from $1,000,000 to $4,000,000
- **Priority Area 4:** range from $1,000,000 to $4,000,000

The EPA is soliciting applications to provide training and technical assistance to rural, small, and Tribal municipalities, publicly owned wastewater treatment works, and decentralized wastewater treatment systems for the prevention, reduction, and elimination of pollution. Eligible activities include training and technical assistance only. For examples of Water Technical Assistance, please see the Implementation of EPA Water Technical Assistance memo. Infrastructure construction projects such as repairing water or sewer lines, adding new equipment, or upgrading, retrofitting, or rehabilitating existing equipment are not eligible for funding under this announcement.

The Agency is seeking applications from organizations that serve a range of geographic service areas with project budgets appropriate to the number of rural, small, and Tribal entities to be supported.

The EPA's current priorities include working to advance equity, address climate change, and responsibly support and implement the IIJA. These priorities include helping ensure that communities that have struggled to access public funding receive the help they need. The EPA aims to maximize the potential for the IIJA funds to significantly benefit rural, small, or Tribal communities with clean water projects. The result is that more communities will have applications for funding, quality wastewater infrastructure, and reliable wastewater services. Awards made through this announcement are intended also to enable communities to comply with environmental regulations and build their technical, managerial, and financial capacity to sustainably operate wastewater infrastructure. Providing this support will allow communities to better protect both public health and the environment.

Project Components

Each application, regardless of the Priority Area being addressed, must address the five project components outlined in this section. Additional information, requirements and example technical assistance and training activities are provided below in Section I.D. Description of Four Priority Areas.

1. **Priority Areas:** Each application must explicitly identify and thoroughly address one and only one of the Priority Areas.
    a. Priority Area 1 - Acquisition of Financing/Funding: Training and technical assistance for rural, small, and Tribal municipalities for planning, developing and acquisition of financing/funding for CWSRF eligible activities.
    b. Priority Area 2 - Protect Water Quality and Compliance Assistance: Training and technical assistance for rural, small, and Tribal publicly owned treatment works and decentralized wastewater systems to help improve water quality and to achieve and maintain compliance.
    c. Priority Area 3 - Tribal: Training and technical assistance focused specifically on Tribes for planning, developing and acquisition of financing/funding, to help improve water quality and achieve and maintain compliance, and/or to support emerging contaminants project development.
    d. Priority Area 4 - Decentralized Systems: Information Dissemination, Training and Technical Assistance focused specifically on decentralized wastewater treatment systems to support planning, development and acquisition of financing.

2. **Technical Assistance and Training Experience and Approach:** Applicants should describe in detail their existing experience and proposed approach for providing training and technical assistance to rural, small, and Tribal municipalities, treatment works and/or communities served by onsite/decentralized wastewater treatment systems in the targeted geographic area.

3. **Geographic Area and Targeted Municipalities and Systems:** Applications should clearly describe the specific geographic scope of the proposed work (e.g., whether it will be regional, state-wide, multi-state, national or other as appropriate) and the rural, small and/or Tribal municipalities and treatment systems being targeted for training and technical assistance. Applicants should provide a rationale for the targeted geographic area and why they are well qualified and positioned to support municipalities and systems in this area.

4. **Consultation and Coordination with State, Territorial and/or Tribal Governments:** Consultation and communication with the appropriate state and/or Tribal government authorities is required. Communication with the Clean Water State Revolving Fund (CWSRF) and/or the territory or Tribal funding authorities is required for applications that address planning, development, and acquisition of financing. Applications must include a description of the process to notify CWSRF programs and/or Tribal and territorial funding authorities.

5. **Partnerships:** Effective partnerships with other technical assistance providers or organizations may be important for the success of projects solicited under this announcement. In their applications, applicants should identify appropriate and necessary partnerships to successfully conduct the project. Applicants should also include a clear description of the roles of specific partners, or planned partners, in the project's components/tasks. If you choose not to partner, applications will be evaluated based on how the applicant demonstrates how it will successfully

conduct the project and meet the objectives without the use of partners. If the applicant chooses to identify any partner entities who will receive subawards or procurement contracts (including consultants), please pay careful attention to the information in the CONTRACTS AND SUBAWARDS provision found at EPA Solicitation Clauses before doing so as the EPA will not consider their qualifications unless the applicant selects them in compliance with applicable regulations and provisions. Partnerships between organizations can greatly benefit from one another's experience and expertise.

Link to Additional Information: https://www.grants.gov/search-results-detail/356501

8. Imaging - Science Track Award for Research Transition (I/START) (R03 Clinical Trial Optional), NIH

Application Deadline: February 16, 2025
Award Information: up to $150,000 for a period of one year

This notice of funding opportunity (NOFO) invites applications for the Imaging - Science Track Award for Research Transition (I/START) program, a continual program developed by the National Institute on Drug Abuse (NIDA) to foster the entry of investigators to the area of development and application of novel molecular tools and methods of brain imaging (e.g., PET, PET/CT, SPECT, SPECT/CT, and optical imaging methods) for substance use disorder (SUD) and addiction research.

It is often difficult for new investigators or even established investigators to incorporate brain imaging tools or methods to advance their research programs due to the complexities involved in their development of these tools or methods, which often serves as a significant barrier to research, particularly for more translational efforts. This NOFO will facilitate the development of brain imaging tools or methods and the collection of "proof-of-concept" neuroimaging data that can accelerate the transition to more advanced, multi-year research applications.

The proposed studies should have the potential to significantly expand our understanding of central nervous system (CNS) dysfunction in the context of substance use and/or SUD via the application of imaging tools or methods.

This announcement seeks applications from all areas of research dealing with the neurobiology of substance use and SUD and encompassing a wide array of studies relevant to the development of brain imaging tools and their application in SUD and addiction. The research proposed under the I/START program must clearly delineate the potential relevance of the research to expand our understanding of substance use and/or SUD.

Some examples of areas of interest suitable for this I/START program include, but are not limited to:

- design and synthesis of novel chemical tools (e.g., radioligands, fluorescent ligands) for imaging studies
- optimization of imaging tools for target affinity, selectivity, brain penetration, and other physicochemical properties to enable their use in vivo
- development of novel methods to enable imaging at molecular, cellular, and/or tissue levels to gain insight into targets, mechanisms, circuits, and pathways that are implicated in substance use and SUD
- application of imaging tools and methods to identify molecular targets and mechanisms relevant to SUD
- application of imaging techniques to identify the spatiotemporal distribution of endogenous molecules and their interaction partners that play a role in addiction and SUD and are differentially modulated by other comorbid conditions, including HIV
- application of imaging tools and methods to study the neurobiology of addiction and to assess structural, functional, or biochemical alterations due to substance use and addiction processes
- application of imaging tools and methods to study the neurobiological mechanisms underlying cognitive constructs of relevance to SUD (e.g., motivated behavior, interoception)
- application of imaging tools and methods to study the neurobiological basis of individual differences in response to addictive substances, including differences in transition from substance use to addiction

- application of imaging tools and methods to assess the neurobiological changes resulting from pharmacological and/or behavioral treatment for SUD

NIDA applicants are strongly encouraged to review the guidelines and adhere to the requirements applicable to their research listed in the Special Considerations for NIDA Funding Opportunities and Awards.

Link to Additional Information: https://grants.nih.gov/grants/guide/pa-files/PAR-24-297.html

9. Safety, Security, and Privacy of Open-Source Ecosystems (Safe-OSE), NSF

Application Deadline:

- **Preliminary Proposals:** January 14, 2025
- **Full Proposals:** April 22, 2025

Award Amount:

- **Year 1:** up to $500,000
- **Year 2:** up to $1,00,000

Vulnerabilities in an open-source product (software and non-software) and/or its continuous development, maintenance, integration, and deployment infrastructure can potentially be exploited to attack any user (human, organization, and/or another product/entity) of the product and/or its derivations. To respond quickly to the growing threats to the safety, security, and privacy of OSEs, NSF is launching the Safety, Security, and Privacy of Open-source Ecosystems (Safe-OSE) program.

This program seeks to fund impactful, mature open-source ecosystems to address important classes of safety, security, and privacy vulnerabilities. In this context, mature signifies that the ecosystem in question has already established a robust community of contributors, an extensive group of users, a managing organization that steers the development of the product, and the essential infrastructure needed to keep the ecosystem running.

This program grows out of the Pathways to Enable Open-Source Ecosystems (POSE) program which supports new managing organizations to catalyze distributed, community-driven development and growth of new OSEs to address the discerned need to address safety, security, and privacy vulnerabilities in impactful OSEs.

Unlike NSF's Dear Colleague Letter inviting proposals related to open-source software security (NSF 23-149), which focuses on fundamental cybersecurity research, the Safe-OSE program solicits proposals from OSEs, including those not originally funded by POSE, to address safety, security, and/or privacy vulnerabilities proactively in existing, mature OSEs. These vulnerabilities can be technical (e.g., vulnerabilities in code, side-channels potentially disclosing sensitive information) and/or socio-technical (e.g., supply chain issues, insider threats, biases, and social engineering), as long as they are deemed significant in the context of the OSE. The goal of the Safe-OSE program is to catalyze meaningful improvements in the safety, security, and privacy of the targeted OSE that the managing organization does not currently have the resources to undertake. The program especially focuses on efforts in which enhancing the safety, security, and privacy of the OSE will lead to demonstrable improvement in its positive societal and economic impacts.

Proposals to this program should provide clear evidence that OSE team leaders have established a thorough understanding of the threat landscape, vulnerabilities, and/or failure modes for the open-source product(s) managed by the OSE. Proposals should describe, where appropriate, what other products depend upon the safe, secure, and privacy-preserving functions of the OSE. Proposals should situate the OSE's threat landscape in the larger context of known threats and/or vulnerabilities and discuss any significant prior incidents affecting the product(s). A realistic plan for addressing risks related to safety, security, and privacy should address the threat landscape and describe how Safe-OSE funding will meaningfully improve the OSE's capabilities for addressing vulnerabilities as well as for detecting and recovering from incidents.

Funds from this program should not be directed toward fundamental research or at readily resolvable, known bugs/issues,

but rather toward strategies, methods, and actions that will fundamentally improve the open-source product's safety, security, and privacy stance. Funds from this program can also be directed at efforts to bolster the OSE's resiliency for recovering from future incidents. Thus, the proposal should articulate how Safe-OSE funding will improve the broader national, societal, and/or economic impacts of the OSE by hardening it against adverse events over the long term.

Link to Additional Information: https://new.nsf.gov/funding/opportunities/safe-ose-safety-security-privacy-open-source-ecosystems/nsf24-608/solicitation

10. NICHD Resource Program Grants in Bioinformatics (P41Clinical Trial Not Allowed), NIH

Application Deadlines:

- **Letter of Intent:** 30 days prior to the application due date
- **Full Proposal:** January 25, 2025

Award Budget: range from $500,000 to no more than $1,750,000 per year for a maximum duration of five years

The purpose of this Notice of Funding Opportunity (NOFO) is to support the continued operation, maintenance, and dissemination of unique knowledge, data, and/or bioinformatics resources that are of major importance to the research community using animal models of embryonic developmental processes. These grants will support ongoing development and enhancement of the resources, user training and services, provision of community generated data storage and curation, wide dissemination of the tools and/or resources, and expansion of interoperability with other NIH bioinformatics resources.

Objectives

These Resource Program Grants in Bioinformatics are intended to support the continued availability, operation, improvement and maintenance of knowledge, data, digital information, bioinformatics tools and/or resources, user training and services, and wide dissemination of these tools or resources.

To qualify for support, knowledge or bioinformatics resources, such as software and algorithms, must be of demonstrable value toward advancing research utilizing animal model systems in the biomedical sciences and must also be of particular importance to those seeking to understand the biological basis of human and animal development and the etiology of structural congenital anomalies.

The resources must be sufficiently mature to have verifiable support from and utility for users within the developmental biology research community, operate according to FAIR data principles, and have a demonstrable national and international impact.

Examples of activities that Resource Program Grants in Bioinformatics are intended to support include but are not limited to:

- Efforts to curate and annotate unique collections of data, information, or knowledge that support learning and research utilizing animal model systems.
- Information and knowledge processing, including information extraction, integration of data from heterogeneous open access sources, event detection, and feature recognition within these datasets.
- Tools for analyzing large datasets, including genomic and proteomic data, data regarding gene and protein expression, and elements that regulate that expression in relation to cellular, anatomical, and/or developmental coordinates.
- Datasets and tools for analysis of gene regulatory networks, protein-protein interaction networks, epigenetic regulatory mechanisms, systems biological approaches, and other tools for understanding normal and abnormal biological function and/or development.
- Other unique datasets or information tools of demonstrable utility for biomedical research using animal models of developmental processes.
- Systems for knowledge representation, including simulations and virtual reality, retrieval tools and intelligent

agents for scientific information related to developmental processes.
- Utilization of appropriate data standards for the model organism community being served, such as controlled vocabularies and ontologies.

Applicants are strongly encouraged to consult with the Scientific/Research Contact to ensure that the proposed project reflects the objectives of this NOFO and the programmatic interests of the NICHD.

Link to Additional Information: https://grants.nih.gov/grants/guide/pa-files/PAR-24-301.html

11. Behavioral & Integrative Treatment Development Program (R01 Clinical Trial Optional), NIH

Application Deadlines:
- **Letter of Intent:** 30 days prior to the application due date
- **Full Proposal:** February 5, 2025

Award Budget: budgets are not limited but need to reflect the actual needs of the proposed project

This notice of funding opportunity (NOFO); in conjunction with the R34 companion NOFO, PAR-24-300, will support Stages II and III behavioral and integrative intervention research with the goal to advance science, including treatments that are intended to be more efficient, better tailored to individuals, or more readily scalable. Over the past two decades, numerous evidence-based behavioral and integrative treatments for addiction have been created. With advances in neuroscience, pharmacology, and device-based treatments (including digital therapeutics), it is evident that to improve clinical outcomes, more effort is required to incorporate new scientific discoveries into behavioral treatment and intervention development. In addition, as more information is elucidated about how treatments work and for whom, and new technologies become available, more can be done to make treatments more easily transportable to community and other real-world settings.

This NOFO supports research to develop new behavioral therapies or modify existing treatments to improve their efficacy and devise ways to improve the engagement, retention, adherence, and substance use, dependence and functional outcomes. The Behavioral and Integrative Treatment Development Program seeks to achieve these goals.

The objective of this announcement and its companion funding opportunity is to ensure sufficient emphasis and support for Stages I through III of behavioral and integrative treatment research. The supported studies will support translation of scientific knowledge into more efficient behavioral, combined behavioral and pharmacological, integrative, and complementary treatments so that they ultimately can be effectively transported from research to the community.

The NIH Stage Model describes behavioral intervention development in six stages: basic science (Stage 0); intervention generation, refinement, modification, and adaptation and pilot testing (Stage I); traditional efficacy testing (Stage II); efficacy testing with real-world providers (Stage III); effectiveness research (Stage IV); dissemination and implementation research (Stage V). Under this NOFO, only stages I, II and III are supported. Intervention development within each stage should be viewed as iterative, recursive, and bidirectional.

- **Stage I:** encompasses all activities related to the creation of a new behavioral intervention, or the modification, adaptation, or refinement of an existing intervention (Stage IA), as well as feasibility and pilot testing (Stage 1B). Stage I may involve translational basic to applied (sometimes referred to as "T1") research. Stage I also may involve the modification or adaptation of interventions for ease of implementation in real-world settings. For example, projects can be conducted in research settings with research therapists/providers, but they also can be conducted in "real world" or community settings with community therapists/providers. One goal of a Stage I project is to provide necessary materials and information to proceed to a later phase Stage I, Stage II or Stage III project. An equally important goal is to obtain scientific knowledge of the processes that lead to behavior change (i.e., behavioral, cognitive, social, or biological change mechanisms at multiple levels of analysis).

  Stage I research is iterative and may involve: 1) identifying promising basic or clinical scientific findings relevant

to the development or refinement of an intervention; 2) generating/ formulating theories relevant to intervention development and putative change mechanisms; 3) operationally defining, and standardizing new or modified principle-driven interventions; 4) initial or pilot testing of the intervention; 5) experimentally testing the mechanisms and principles of behavior change of the intervention; and 6) as necessary, further refining the intervention.

Stage I research can be conducted to generate, modify, refine, adapt, or pilot-test: 1) behavioral treatment interventions; 2) HIV prevention interventions; 3) medication adherence interventions; 4) components of a behavioral intervention; 5) therapist/provider training and supervision interventions; 6) interventions to ensure maintenance of the fidelity of intervention. The proposed study can be conducted prior to taking the intervention to an efficacy study, or after an intervention has proven efficacious.

- **Stage II:** research consists of testing promising behavioral interventions in research settings, with research therapists/providers while maintaining a high level of control necessary to establish internal validity. This treatment stage also involves examining mechanisms of behavior change. Stage II does not specify a particular research design. Testing of interventions may be done in randomized clinical trials but may also be conducted using other methodologies as appropriate (e.g., adaptive designs, multiple baseline single-case designs, A-B-A designs, etc.). Stage II studies may include exploration of intervention components, dose-response, and theory-derived moderators.

  Proceeding from Stage I to Stage II (or Stage III in the case of an intervention developed in or ready for a community setting) presumes that promising pilot data exist. If sufficiently strong evidence of promise does not exist, but if there is a good rationale for additional modification of the intervention, such modification can be proposed in a subsequent Stage I study.

  Information obtained from Stage II studies may be used to inform future Stage I studies.

- **Stage III:** research determines efficacy in community settings and with community therapists/providers. Although Stage III occurs in real-world settings, investigators should maintain a high level of control to establish internal validity. Proceeding directly from Stage I to Stage III requires Stage I research to be promising and requires the existence of methods to ensure fidelity of delivery of an intervention, along with therapist training materials (as required by the intervention).

  Stage III does not specify a particular research design. Testing of interventions may be done in randomized clinical trials but may also be conducted using other methodologies (e.g., adaptive designs, multiple baseline single-case designs, A-B-A designs, etc.). Stage III studies may include examinations of intervention components, dose-response, and theory-derived moderators.

  Information obtained from Stage III (or Stage II) studies may be used to inform future Stage I studies.

Specific Areas of Research Interest

The overarching goal of this NOFO is to produce maximally efficacious behavioral interventions (individual and group) to treat substance use, promote medication/treatment adherence, and prevent HIV, and leverage new knowledge in neuroscience, new technologies and pharmacotherapies that may improve tangible outcomes of behavioral interventions. This NOFO underscores the importance of fostering research aimed at boosting intervention effects to produce targeted treatments across populations (including adolescents, pregnant women, individuals with comorbid psychiatric disorders) or populations with pain. Stages of treatment development will include Stage I, Stage II and Stage III efficacy studies (randomized clinical trials, adaptive designs, SMART designs, experimental therapeutics approach) of behavioral, combined, or integrated treatment interventions, adherence interventions, and prevention interventions for HIV risk behaviors. This includes treatment dose-response studies, and studies of the optimal sequencing of treatment, adherence, and HIV prevention interventions. Research on the treatment of SUDs involving illicit drugs, prescription medications,

nicotine (including e-cigarette or vaping cessation), and multiple drugs. Of particular interest are studies that seek to determine basic mechanisms of behavior change, within the context of behavioral treatment research. Therefore, applicants are strongly encouraged to include (and if necessary, develop) measures of proposed mediators, moderators, and mechanisms of behavior change relevant to their intervention. This may include, for example, behavioral, cognitive, social, affective, and/or neurobiological targets. Grant applications submitted under this PAR should indicate and make explicit the stage of treatment development, as described above (hybrid studies are acceptable).

Link to Additional Information: https://grants.nih.gov/grants/guide/pa-files/PAR-24-299.html

Scholarships and Fellowships

1. **Mathematics and Physical Sciences - Scientific Software Research Faculty Award, Simons Foundation**
   Application Deadline:
   - **Letter of Intent:** December 5, 2024
   - **Full Proposal:** due on a rolling basis no later than March 31, 2026

   Anticipated Funding Amount: $50,000

The Simons Foundation's Mathematics and Physical Sciences (MPS) division invites applications for its Scientific Software Research Faculty Award (SSRF Award) in the MPS program for faculty appointments to start between September 2025–September 2026. The foundation strongly encourages scientists from disadvantaged backgrounds or underrepresented groups to apply.

The Simons Foundation invites applications for funding to support new research professor positions (e.g., "clinical professor," "professor of practice" or "research professor," the titles and roles depending on the university) in existing academic departments (the "host institutions") to be filled by scientific software-focused researchers. The SSRF Award will support researchers who have a strong track record of leadership in scientific software development. The aim of this program is to stimulate the development and maintenance of core scientific software infrastructure in academic environments through creating a new, long-term, faculty-level career path.

Link to Additional Information: https://www.simonsfoundation.org/grant/scientific-software-research-faculty-award/

2. **Postdoctoral Fellowship, Translational Research Institute for Space Health (TRISH)**
   Application Deadline: December 18, 2024
   Anticipated Funding Amount: $70,000 for two years

The Translational Research Institute for Space Health (TRISH) is seeking proposals for its 2025 postdoctoral research program, which supports early career scientists pursuing research with the potential to reduce the human health risks associated with spaceflight. Selected TRISH postdoctoral fellows lead their own two-year research projects.

This Request for Applications (RFA) will be competitively awarded in any laboratory in the United States (U.S.) conducting biomedical/biotechnological research aligned with TRISH's mission and goals. Applications will be screened for compliance and undergo a scientific and technical peer review by an external peer review committee consisting of a number of experienced scientists. Relevance to TRISH's and NASA's programmatic needs and goals will also be evaluated by TRISH management. Selections will be performed by the TRISH Selection Official.

Selected fellows will also have the opportunity to participate in the Institute's Academy of Bioastronautics, a program that gathers current TRISH postdoctoral fellows and allows for discussion, presentations and networking.

Link to Additional Information:
https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B5F6054B3-ABD0-2160-5A54-DC2FC0B54566%7D&path=&method=init

Forecasted Opportunities

1. **Elder Justice Innovation Grants FY2025, DHHS / Administration for Community Living**

The purpose of the EJIG program is to support the development and advancement of new and emerging issues related to elder justice. Funded projects will contribute to the improvement of the field of elder abuse prevention and intervention at large, such as by developing materials, programs, etc. that can be widely disseminated and/or replicated, or by establishing and/or contributing to the evidence-base of knowledge.

Link to Additional Information: https://www.grants.gov/search-results-detail/356414

2. **Dynamic Language Infrastructure – Documenting Endangered Languages Fellowships, NEH**

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.

Link to Additional Information: https://www.grants.gov/search-results-detail/356523

3. **Humanities Connections, NEH**

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. Projects must incorporate the approaches and learning activities of both the humanities and the non-humanities disciplines involved.

Link to Additional Information: https://www.grants.gov/search-results-detail/356522

Proposals Accepted Anytime

1. Division of Environmental Biology, NSF
   https://new.nsf.gov/funding/opportunities/division-environmental-biology-deb/nsf24-543/solicitation

2. Computational and Data-Enabled Science and Engineering in Mathematical and Statistical Sciences, NSF
   https://beta.nsf.gov/funding/opportunities/computational-and-data-enabled-science-and-engineering-mathematical-and

3. Condensed Matter and Materials Theory (CMMT), NSF
   https://www.nsf.gov/pubs/2022/nsf22610/nsf22610.htm#pgm_desc_txt

4. Division of Materials Research: Topical Materials Research Programs (DMR: TMRP), NSF
   https://www.nsf.gov/pubs/2022/nsf22609/nsf22609.htm

5. Research in the Formation of Engineers, NSF
   https://beta.nsf.gov/funding/opportunities/research-formation-engineers-rfe

6. Computer and Information Science and Engineering (CISE): Core Programs, NSF – Small Projects
   https://www.nsf.gov/pubs/2022/nsf22631/nsf22631.htm

7. Manufacturing Systems Integration (MSI), NSF
   https://beta.nsf.gov/funding/opportunities/manufacturing-systems-integration-msi

8. Cybersecurity Innovation for Cyberinfrastructure (CICI), NSF
   https://www.nsf.gov/pubs/2023/nsf23532/nsf23532.htm

9. Division of Molecular and Cellular Biosciences Core Programs (MCB), NSF
   https://new.nsf.gov/funding/opportunities/division-molecular-cellular-biosciences-core/nsf24-539/solicitation

10. Division of Integrative Organismal Systems Core Programs, NSF
    https://www.nsf.gov/pubs/2023/nsf23547/nsf23547.htm

11. Electronics, Photonics and Magnetic Devices (EPMD), NSF
    https://beta.nsf.gov/funding/opportunities/electronics-photonics-magnetic-devices-epmd-0

12. Plant Genome Research Program (PGRP), NSF
    https://www.nsf.gov/pubs/2023/nsf23559/nsf23559.htm#elig

13. Communications, Circuits, and Sensing-Systems (CCSS), NSF
    https://beta.nsf.gov/funding/opportunities/communications-circuits-sensing-systems-ccss-0

14. Fluid Dynamics, NSF
    https://beta.nsf.gov/funding/opportunities/fluid-dynamics-2

15. Biophotonics, NSF
    https://beta.nsf.gov/funding/opportunities/biophotonics-2

16. Environmental Sustainability, NSF
    https://beta.nsf.gov/funding/opportunities/environmental-sustainability-2

17. Particulate and Multiphase Processes, NSF
    https://beta.nsf.gov/funding/opportunities/particulate-multiphase-processes-2

18. Interfacial Engineering, NSF
    https://beta.nsf.gov/funding/opportunities/interfacial-engineering-0

19. Nanoscale Interactions, NSF
    https://beta.nsf.gov/funding/opportunities/nanoscale-interactions-0

20. Combustion and Fire Systems (CFS), NSF
    https://new.nsf.gov/funding/opportunities/combustion-fire-systems-cfs

21. Infrastructure Innovation for Biological Research (Innovation), NSF
    https://www.nsf.gov/pubs/2023/nsf23578/nsf23578.htm

22. Infrastructure Capacity for Biological Research (Capacity), NSF
    https://www.nsf.gov/pubs/2023/nsf23580/nsf23580.htm

23. Energy, Power, Control, and Networks (EPCN), NSF
    https://new.nsf.gov/funding/opportunities/energy-power-control-networks-epcn-0

24. Engineering of Biomedical Systems, NSF
    https://new.nsf.gov/funding/opportunities/engineering-biomedical-systems-0

25. Catalysis, NSF
https://new.nsf.gov/funding/opportunities/catalysis-2

26. Process Systems, Reaction Engineering, and Molecular Thermodynamics, NSF
https://new.nsf.gov/funding/opportunities/process-systems-reaction-engineering-molecular-2

27. Disability and Rehabilitation Engineering (DARE), NSF
https://new.nsf.gov/funding/opportunities/disability-rehabilitation-engineering-dare-2

28. Cellular and Biochemical Engineering, NSF
https://new.nsf.gov/funding/opportunities/cellular-biochemical-engineering-0

29. Facility and Instrumentation Request Process (FIRP), NSF
https://www.nsf.gov/pubs/2023/nsf23602/nsf23602.htm

30. Research Infrastructure in the Social and Behavioral Sciences (RISBS), NSF
https://new.nsf.gov/funding/opportunities/research-infrastructure-social-behavioral-sciences

31. Secure and Trustworthy Cyberspace (SaTC), NSF
https://www.nsf.gov/pubs/2024/nsf24504/nsf24504.htm

32. Mind, Machine and Motor Nexus (M3X), NSF
https://new.nsf.gov/funding/opportunities/mind-machine-motor-nexus-m3x

33. Cyberinfrastructure for Public Access and Open Science, NSF
https://new.nsf.gov/funding/opportunities/cyberinfrastructure-public-access-open-science-ci

Announcing Previous Important Funding Opportunities

1. Cyber-Physical Systems (CPS), NSF
Submission Window Date(s): June 01, 2024 - May 31, 2025 (Small & Medium)
https://new.nsf.gov/funding/opportunities/cyber-physical-systems-cps/nsf24-581/solicitation

2. Precision Mental Health: Develop Tools to Inform Treatment Selection in Depression (UG3/UH3 Clinical Trial Optional), NIH
Deadline: September 18, 2024 (LOI); October 18, 2024 (FP)
https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-25-190.html

3. Collaborative Research, NEH
Deadline: September 18, 2024 (Optional Draft); November 20, 2024 (FP)
https://www.neh.gov/grants/research/collaborative-research-grants

4. Mentored Career Enhancement Awards to Build Cross-Disciplinary Knowledge and Skills for Comparative Studies of Human and Nonhuman Primate Species with Differing Life Spans (K18 Clinical Trial Not Allowed), NIH
Deadline: September 20, 2024 (LOI); November 1, 2024 (FP)
https://grants.nih.gov/grants/guide/rfa-files/RFA-AG-25-028.html

5. Scholarly Editions and Translations, NEH
Deadline: September 30, 2024 (Optional Draft); December 4, 2024 (FP)
https://www.neh.gov/grants/research/scholarly-editions-and-translations-grants

6. Spotlight on Humanities in Higher Education, NEH
   Deadline: October 1, 2024
   https://www.neh.gov/program/spotlight-humanities-higher-education

7. Revolutionizing Innovative, Visionary Environmental Health Research (RIVER) (R35 Clinical Trial Optional), NIH
   Deadline: October 1, 2024 (LOI); November 1, 2024 (FP)
   https://grants.nih.gov/grants/guide/rfa-files/RFA-ES-24-004.html

8. Computer and Information Science and Engineering: Core Programs, NSF
   Submission Window Date(s): Oct 1, 2024 - Oct 23, 2024 (OAC Core Projects & Medium); Oct 1, 2024 – Sept 30, 2025 (Small)
   https://new.nsf.gov/funding/opportunities/computer-information-science-engineering-core/nsf24-589/solicitation

9. Humanities Research Centers on Artificial Intelligence, NEH
   Deadline: October 2, 2024 (Optional Draft); December 11, 2024 (FP)
   https://www.neh.gov/program/humanities-research-centers-artificial-intelligence

10. Advanced Technological Education, NSF
    Deadline: October 3, 2024
    https://new.nsf.gov/funding/opportunities/advanced-technological-education-ate/nsf24-584/solicitation

11. Advancement and Innovation in Measurement of Language Development and Predictors (R01 Clinical Trial Not Allowed), NIH
    Deadline: October 5, 2024
    https://grants.nih.gov/grants/guide/pa-files/PAR-24-243.html

12. Engineering Research Initiation, NSF
    Deadline: October 9, 2024
    https://new.nsf.gov/funding/opportunities/engineering-research-initiation-eri/nsf24-590/solicitation

13. Mathematical Foundations of Artificial Intelligence, NSF
    Deadline: October 10, 2024
    https://new.nsf.gov/funding/opportunities/mathematical-foundations-artificial-intelligence

14. NINDS Faculty Development Award to Promote Diversity in Neuroscience Research (K01 Independent Clinical Trial Not Allowed), NIH
    Deadline: October 12, 2024
    https://grants.nih.gov/grants/guide/pa-files/PAR-24-228.html

15. NHLBI Career Transition Award for Intramural Postdoctoral Fellows and Research Trainees (K22 Clinical Trial Required), NIH
    Deadline: October 12, 2024
    https://grants.nih.gov/grants/guide/pa-files/PAR-24-211.html

16. Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Postdoctoral Career Transition Award to Promote Diversity (K99/R00 - Independent Basic Experimental Studies with Humans Required (BESH)), NIH
    Deadline: October 12, 2024
    https://grants.nih.gov/grants/guide/pa-files/PAR-24-227.html

17. Mentored Career Development Award to Promote Faculty Diversity in Biomedical Research (K01 Independent Clinical Trial Not Allowed), NIH
Deadline: October 14, 2024
https://grants.nih.gov/grants/guide/rfa-files/RFA-HL-25-009.html

18. Basic Research in Cancer Health Disparities (R21 Clinical Trial Not Allowed), NIH
Deadline: October 16, 2024
https://grants.nih.gov/grants/guide/pa-files/PAR-24-291.html

19. B-INSPIRE: Research on Behavioral Interventions that Promote Careers in the Biomedical Research Enterprise (R01 - Clinical Trial Not Allowed), NIH
Deadline: October 17, 2024
https://grants.nih.gov/grants/guide/pa-files/PAR-24-230.html

20. Innovative Programs to Enhance Research Training (IPERT) (R25 Independent Clinical Trial Not Allowed), NIH
Deadline: October 17, 2024
https://grants.nih.gov/grants/guide/pa-files/PAR-24-252.html

21. Leadership Development for Mid-Level Managers, National Institutes of Corrections
Deadline: October 21, 2024
https://nicic.gov/about-nic/funding-opportunities/nic-fy-2025-leadership-development-mid-level-managers

22. MUREP Earth System Science Research (MUREP ESSR), NASA
Deadline: October 30, 2024
https://nspires.nasaprs.com/external/solicitations/summary!init.do?solId=%7b69136F4F-AD18-694B-E4BE-C176EC4EF408%7d&path=open

23. Building Sustainable Software Tools for Open Science (R03 Clinical Trial Not Allowed), NIH
Deadline: November 3, 2024 (LOI); December 4, 2024 (FP)
https://grants.nih.gov/grants/guide/pa-files/PAR-24-204.html

24. Postdoctoral Research Fellowships in Biology (PRFB), NIH
Deadline: November 7, 2024
https://new.nsf.gov/funding/opportunities/postdoctoral-research-fellowships-biology-prfb/nsf24-593/solicitation

25. PFE: Research Initiation in Engineering Formation (PFE: RIEF), NSF
Deadline: November 12, 2024
https://new.nsf.gov/funding/opportunities/pfe-research-initiation-engineering-formation-pfe

26. Digital Humanities Advancement Grants, NEH
Deadline: November 13, 2024 (Optional Draft); January 9, 2025 (FP)
https://www.neh.gov/grants/odh/digital-humanities-advancement-grants

27. Strengthening Program Evaluation Capacity: Building Evidence of Effectiveness of Strategies To Increase Postsecondary Student Success, Department of Education
Deadline: November 14, 2024
https://www.govinfo.gov/content/pkg/FR-2024-08-15/pdf/2024-18275.pdf

28. National Science Foundation Research Traineeship Program, NSF
Deadline: November 14, 2024
https://new.nsf.gov/funding/opportunities/us-national-science-foundation-research/nsf24-597/solicitation

29. Museum Grants for American Latino History and Culture, IMLS
Deadline: November 15, 2024
https://www.imls.gov/grants/available/museum-grants-american-latino-history-and-culture

30. Mid-scale Research Infrastructure-1 (Mid-scale RI-1), NSF
Deadline: November 18, 2024 (Preliminary Proposal); March 19, 2025 (FP by invitation only)
https://new.nsf.gov/funding/opportunities/mid-scale-research-infrastructure-1-mid-scale-ri-1

31. Education Activities for Responsible Analyses of Complex, Large-Scale Data (R25 - Clinical Trial Not Allowed), NIH
Deadline: November 18, 2024 (LOI); December 18, 2024 (FP)
https://grants.nih.gov/grants/guide/rfa-files/RFA-DA-25-039.html

32. Ethical, Legal, and Social Implications (ELSI) Congress, NIH
Deadline: November 19, 2024
https://grants.nih.gov/grants/guide/rfa-files/RFA-HG-24-028.html

33. Science and Technology Centers: Integrative Partnerships, NSF
Deadline: November 20, 2024 (Preliminary Proposal); June 2, 2025 (FP by invitation only)
https://new.nsf.gov/funding/opportunities/science-technology-centers-integrative/nsf24-594/solicitation

34. Biomedical Research Initiative for Next-Gen BioTechnologies - SynBio Control (BRING SynBio), NSF
Deadline: December 4, 2024
https://new.nsf.gov/funding/opportunities/bring-synbio-biomedical-research-initiative-next-gen-biotechnologies/nsf24-603/solicitation

35. Molecular Foundations for Sustainability: Sustainable Polymers Enabled by Emerging Data Analytics, NSF
Deadline: December 5, 2024 (LOI); January 16, 2024 (FP)
https://new.nsf.gov/funding/opportunities/molecular-foundations-sustainability-sustainable/nsf24-567/solicitation

36. Advancing Informal STEM Learning (AISL), NSF
Deadline: January 8, 2025
https://new.nsf.gov/funding/opportunities/advancing-informal-stem-learning-aisl/nsf24-601/solicitation

37. Translation Project Fellowships, NEA
Deadline: January 16, 2025
https://www.arts.gov/grants/translation-project-fellowships

38. Ethical and Responsible Research (ER2), NSF
Deadline: January 23, 2025
https://new.nsf.gov/funding/opportunities/er2-ethical-responsible-research/nsf24-604/solicitation

39. Focus on Recruiting Emerging Climate and Adaptation Scientists and Transformers, NSF
Deadline: January 29, 2025 (Track 1); April 30, 2025 (Track 2)
https://new.nsf.gov/funding/opportunities/focus-recruiting-emerging-climate-adaptation/nsf24-558/solicitation

40. Quantum Leap Challenge Institutes, NSF
Deadline: February 7, 2025 (LOI-required); March 7, 2025 (Preliminary Proposal-required): September 17, 2025 (FP – by invitation)
https://new.nsf.gov/funding/opportunities/quantum-leap-challenge-institutes-qlci/nsf24-599/solicitation

41. NIDCR Mentored Career Development Award to Promote Broad Participation in Research (K01 Independent Clinical Trial Not Allowed), NIH
Deadline: February 12, 2025
https://grants.nih.gov/grants/guide/pa-files/PAR-25-022.html

42. Summer Research Education Experience Program (R25 Clinical Trial Not Allowed), NIH
Deadline: February 15, 2025 (LOI); March 18, 2025 (FP)
https://grants.nih.gov/grants/guide/pa-files/PAR-24-204.html

43. Discovery Research PreK-12 Program Resource Center on Transformative Education Research and Translation (DRK-12 RC), NSF
Deadline: February 28, 2025
https://new.nsf.gov/funding/opportunities/drk-12-rc-discovery-research-prek-12-program-resource-center/nsf24-602/solicitation?WT_mc_id=USNSF_25&WT_mc_ev=click

44. Science, Technology, Engineering and Mathematics (STEM), Office of Naval Research
Deadline: April 4, 2025
https://www.nre.navy.mil/work-with-us/funding-opportunities/onr-science-technology-engineering-and-mathematics-stem-program

45. Research and Development (RAD) Directed Energy (RD) University Assistance Instruments, Dept. of the Air Force, Air Force Research Lab
Deadline: until July 18, 2029 (Mandatory LOI); by invitation only (FP)
https://www.grants.gov/search-results-detail/355499

46. Computer and Information Science and Engineering (CISE): Core Programs, Large Projects, NSF
Submission Window Date(s): September 15, 2025 - September 29, 2025
https://new.nsf.gov/funding/opportunities/computer-information-science-engineering-core-0/nsf24-572/solicitation#elig

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