May 29, 2024

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Purdue's open limited submission competitions, templates, and limited submission policy may be found at http://www.purdue.edu/research/funding-and-grant-writing/limited-submissions.php. Please contact Sue Grimes (sgrimes@purdue.edu) with any questions.

1. **Limited Submissions:**

   Preproposals should be submitted via Purdue's InfoReady portal (https://purdue.infoready4.com/). For any case in which the number of preproposals received is no more than the number of proposals allowed by the sponsor, the OOR will notify the PI(s) that an internal competition will be unnecessary. Questions should be addressed to OORlimited@purdue.edu.

   Limited Submission: ***NSF National STEM Teacher Corps Pilot Program*** The purpose of this program is to elevate the profession of STEM teaching by establishing a National STEM Teacher Corps Pilot Program to recognize outstanding STEM teachers in our Nation's classrooms, reward them for their accomplishments, elevate their public profile, and create rewarding career paths to which all STEM teachers can aspire, both to prepare future STEM researchers and to create a scientifically literate public. With this solicitation, NSF is inviting proposals to establish an initial set of Regional Alliances responsible for (a) recruiting eligible applicants to become members of the National STEM Teacher Corps. The National STEM Teacher Corps also welcomes planning proposals submitted at any time during the year. Only ***one*** submission is allowed per institution.

   Internal deadline: Preproposal due in InfoReady by June 17 (template)

   Sponsor deadline: August 20 – LOI; October 1 – Full proposal

   Limited Submission: ***DOE-OS Fusion Innovation Research Engine (FIRE) Collaboratives*** The DOE Fusion Energy Science (FES) program is embarking on a transformative initiative aimed at creating a fusion innovation ecosystem by forming virtual, centrally managed teams called "Collaboratives", that have a collective goal of bridging FES's basic science research programs and growing fusion industries, including the activities supported under the FES milestone-based fusion development program. At its core, FIRE represents a departure from traditional science programs. It is structured as a framework comprised of Collaboratives with the purpose of bridging the gap between foundational science and practical application. These Collaboratives are envisioned as dynamic hubs of innovation, driving advancements in fusion energy research in collaboration with both public and private entities. Only ***four*** submissions are allowed as lead.

   Internal deadline: Preproposal due in InfoReady by June 10 (template)

   Sponsor deadline: July 9 – Pre-application; August 27 - Application

   Limited Submission: ***DOE-NNSA Predictive Science Academic Alliance Program IV (PSAAP IV)*** PSAAP IV will support leading U.S. institutions of higher education, with doctoral programs, engaging in five major focus areas: 1. Discipline-focused research to further predictive science and enabled by effective exascale computing and data science technologies; 2. Mathematics and computer science (CS) technologies and methodologies to support effective exascale computing in the context of science/engineering applications (development and demonstration); 3. State-of-the-art machine learning (ML) and data science technologies for predictive science and engineering (utilization and advancement); 4. Predictive science based on verification, validation, and uncertainty quantification (VVUQ) for large-scale simulations; and 5. Workforce development of the next-generation computational scientists. PSAAP IV will create a program consisting of two types of Centers: *Predictive Simulation Centers (PSCs)* and *Focused Investigatory Centers (FIC)*. PSCs will be required to focus their

research on scalable application simulations, targeting either large-scale, integrated multidisciplinary problems or a broad single science/engineering discipline, to be carried out on ASC's unclassified high-performance computing (HPC) systems that will be made available to the funded PSAAP IV Centers. FICs will be required to be tightly focused on a specific research topic either in one of the disciplines or one or more of the exascale-enabling CS, ML, or VVUQ technologies. Only ***one*** Predictive Simulation Center proposal is allowed per university. Focused Investigatory Centers (FIC) are not limited.

Internal deadline: Preproposal for PSC due in InfoReady by June 10 (template)

Sponsor deadlines: June 27 – Pre-application (optional but encouraged); September 30 - Application

Internal Coordination Required: ***MacArthur Foundation 100&Change*** MacArthur is launching its third cycle of 100&Change to help address another of the world's most critical issues. 100&Change is a MacArthur Foundation competition for a $100 million grant to fund a single proposal that will make measurable progress toward solving a significant problem. 100&Change will select one bold proposal that promises real progress toward solving a critical problem of our time. Proposals focused on any critical issue are welcome: No single field or problem area is designated – proposals from any sector are encouraged; Proposals should articulate both the problem and the proposed solution and *must have a charitable purpose*; and Competitive proposals will be impactful, evidence-based, feasible, durable, and just (see scoring rubric for details). Those interested in submitting should first use the "**Organizational Readiness Tool**" to determine if your project is a good fit for this program. ***Per MacArthur, community involvement with global reach is a key feature for successful projects. They also noted a preference for project leads to be community organizations but acknowledged universities as ideal partners.***

Internal deadline: Contact Stephanie Merrill, SJMerrill@purdueforlife.org, by June 17 for more information and administrative details

Sponsor deadlines: August 15 – Registration; September 5 - Application

Internal Coordination Required: ***DOC-NIST FY2024 CHIPS for America*** The purpose of the CHIPS Research and Development (R&D) programs is to advance the development of semiconductor technologies and to enhance the competitiveness of the U.S. semiconductor industry. The CHIPS R&D programs address five cross-cutting issues that were identified through interactions with stakeholders and include: Access to facilities and equipment for late-stage R&D and prototyping; Advanced packaging and testing; Advanced metrology and characterization; Advanced manufacturing technology; and Workforce development. NIST will release a series of NOFOs under this program and it is anticipated that most, if not all, will be limited submission, including those where Purdue is a sub-awardee. **Based on the complexity of this program, all submissions involving Purdue as a participant will be coordinated through OOR at all stages (white paper and full submissions) *including those participating as a sub-awardee*.**

Internal deadline: Contact OORLimited@purdue.edu if interested in participating in any of these NIST opportunities

Sponsor deadline: On-going

2. **Selected Funding Opportunities**:

NSF Centers for Research and Innovation in Science, the Environment and Society (CRISES) The envisioned centers will catalyze new research and research-based innovations to address seemingly intractable problems that confront our society. They will develop evidence-based solutions that address fundamental quality-of-life issues, such as those involving the environment, extreme weather and sustainability; workforce and the economy; equity and access to opportunities; and well-being. CRISES supports planning proposals to catalyze ideas that will potentially inform or serve as the basis for a larger, center-scale program. This opportunity supports researchers in the social, behavioral and economic sciences who use empirical methods to grapple with crises that impact individuals, families, organizations, regions, nations or our entire planet. The Centers for

Research in Science, the Environment and Society initiative invites proposals to take the first steps toward developing large-scale interdisciplinary research activities that will address today's crises and ultimately enhance people's quality of life. Deadline: July 1

NSF Dear Colleague Letter: National Artificial Intelligence Research Resource (NAIRR) Pilot Demonstration Projects This Dear Colleague Letter (DCL) announces NSF's interest in receiving Early-concept Grants for Exploratory Research (EAGER) proposals and supplemental funding requests for NAIRR Demonstration Projects to highlight innovative use cases and technologies that make use of the NAIRR Pilot. NAIRR Pilot Demonstration Projects are multi-disciplinary efforts involving a team of AI researchers, domain scientists, and/or cyberinfrastructure specialists who are undertaking specific research challenges that innovatively use, integrate with, or rely on one or more NAIRR Pilot requestable resources. Demonstration Projects should result in prominent scientific publications and demonstrate potential capabilities of a future full NAIRR. Proposed projects should be submitted as supplemental funding requests from existing collaborative teams or as EAGER proposals from new collaborative teams to make innovative use of NAIRR resources to undertake ambitious, near-term research through demonstration projects. Deadline: July 10

NIH BRAIN Initiative: Brain-Behavior Quantification and Synchronization Transformative and Integrative Models of Behavior at the Organismal Level (U01) This Brain-Behavior Quantification and Synchronization NOFO seeks applications that bring together transdisciplinary teams and aim to 1) develop, validate, and apply cutting-edge tools and methods for minimally invasive, multi-dimensional, high-resolution objective measurement of behavior at the organismal level, with synchronous capture of dynamic environmental data; 2) develop advanced analytic approaches to integrate multidimensional behavioral, neural and environmental data; and 3) develop and test new theoretical and computational models aiming to advance understanding of behavior as a complex dynamic system. Proposed projects are expected to be designed with the capacity to integrate synchronously recorded neural data and/or inform existing models of neurobehavioral function, such as those developed with the support of the NIH BRAIN Initiative. Deadline: October 9

HHS-FDA Minor Use Minor Species Development of Drugs (R01) This Notice of Funding Opportunity (NOFO) is issued by the Food and Drug Administration (FDA), Center for Veterinary Medicine (CVM), and solicits Research Project (R01) grant applications from institutions or organizations that propose to develop or support the development of designated new animal drugs intended for minor uses in major species or for use in minor species (MUMS). Deadline: July 26

DOE-EERE Solar Technologies' Rapid Integration and Validation for Energy Systems (STRIVES) The STRIVES program will provide up to $31 million for research, development, and demonstration projects to improve power systems simulation software tools and demonstrate new business models for distribution systems operations to integrate and optimize the value of inverter-based resources (IBRs) and distributed energy resources including solar generation, wind generation, energy storage, and other technologies such as buildings and electric vehicles. This FOA has two topic areas: Topic Area 1: Robust Experimentation and Advanced Learning for Distribution System Operators; and Topic Area 2: Improved Simulation Tools for Large-Scale IBR Transient and Dynamic Studies. Deadlines: July 25 – Concept paper; October 17 - Application

DOE ARPA-E Vision OPEN 2024 The Vision OPEN 2024 includes three goals that are critical to achieve a sustainable energy and carbon transition with: Greenhouse gas (GHG)-free abundant primary energy; An intermodal energy superhighway that transports diversified forms of primary energy; and A carbon transition that sustainably meets demand for polymers and other materials. These goals will enable a novel and robust global energy system that responsibly meets the needs and aspirations of future generations. Achieving these three goals by 2050 will necessitate development and deployment of disruptive and ambitious technologies at an unparalleled speed and scale. Deadlines: July 16 – Concept paper; TBD – Full application

NASA-ROSES Opportunities

- ***Ocean Surface Topography Science Team*** Deadlines: September 5 – Step 1; October 17 – Step 2
- ***Cryospheric Science*** Deadlines: September 13 – Step 1; October 16 – Step 2
- ***SERVIR Applied Sciences Team*** Deadlines: October 2 – Step 1; May 15 – Step 2
- ***Heliophysics Low Cost Access to Space*** Deadline: September 23
- ***Heliophysics Early Career Investigator Program*** Deadlines: September 18 – Step 1; December 3 – Step 2
- ***Heliophysics Artificial Intelligence/Machine Learning-Ready Data*** Deadlines: January 23 – Step 1; April 3 – Step 2
- ***New Frontiers Data Analysis Program*** Deadlines: September 11 – Step 1; November 7 – Step 2
- ***Lunar Data Analysis Program*** Deadlines: February 26 – Step 1; April 30 – Step 2
- ***Mars Data Analysis Program*** Deadlines: September 12 – Step 1; November 14 – Step 2
- ***Discovery Data Analysis Program*** Deadlines: September 5 – Step 1; November 13 – Step 2
- ***Analog Activities to Support Artemis Lunar Operations*** Deadline: December 4
- ***Astrophysics Research and Analysis*** Deadlines: December 13 – Step 1; January 30 – Step 2
- ***Neil Gehrels Swift Observatory General Investigator - Cycle 21*** Deadline: September 26
- ***Fermi General Investigator - Cycle 18*** Deadline: February 13
- ***Strategic Astrophysics Technology*** Deadlines: December 13 – Step 1; January 3 – Step 2
- ***NICER General Observer - Cycle 7*** Deadline: September 12
- ***Astrophysics Pioneers*** Deadlines: January 24 – Step 1; March 13 – Step 2
- ***LISA Preparatory Science*** Deadlines: January 17 – Step 1; March 20 – Step 2
- ***Planetary Science Early Career Award*** Deadline: December 5
- ***Habitable Worlds*** Deadlines: November 8 – Step 1; January 31 – Step 2
- ***Citizen Science Seed Funding Program*** Deadlines: October 1 – Step 1; November 19 – Step 2

EPA Fiscal Year 2024 Building Partner Capacity and Promoting Resiliency and Equity under Clean Water Act, Wetlands, Nonpoint Source, Monitoring, Assessment and Listing Programs The EPA is soliciting applications from eligible applicants to provide support for training and related activities to build the capacity of agricultural partners, state, territorial and Tribal officials and nongovernmental stakeholders in activities to be carried out to support the goals of the Clean Water Act (CWA) Section 303(d) Program, the CWA 305(b) Program, the Total Maximum Daily Load (TMDL) Program, the Nonpoint Source (CWA Section 319) Program, the Fish Monitoring/Advisory Programs, the Recreational Waters/Beach Monitoring Programs and the Water Quality Monitoring Program. Each application submitted under this announcement must address one, and only one, of the five National Priority Areas: NPA1 - State and Tribal Aquatic Resource Monitoring Technical Training and Capacity Building Workshops; NPA2 - State, Tribal and Territorial Data Management and Data Sharing Training Workshops in Support of CWA Section 303(d), CWA Section 305(b), TMDLs and Water Quality Monitoring and Assessment; NPA3 - Workshops on Recreational Waters and Beach Monitoring Programs; NPA4 - Nonpoint Source Technical Support for Tribes; or NPA5 - Training Workshop on Fish Monitoring and Advisory Programs. Deadline: July 17

DoED-IES Education Research and Special Education Research Grant Programs In awarding the research grants, IES intends to provide national leadership in expanding knowledge and understanding of (1) developmental and school readiness outcomes for infants and toddlers with or at risk for a disability, (2) education outcomes for all learners from early childhood education through postsecondary and adult education, and (3) employment and wage outcomes when relevant (such as for those engaged in career and technical, postsecondary, or adult education). IES is announcing four research competitions through two of its centers: The IES National Center for Education Research (NCER) is announcing two competitions in the following areas: education research, and statistical and research methodology in education. The IES National Center for Special Education Research (NCSER) is announcing two competitions—one competition in each of the following areas: special education research, and special education research training. Deadline: September 12

DOJ-BJS FY24 Statistical Support Program BJS seeks to administer the Bureau of Justice Statistics Statistical Support Program (BJS-SSP). The primary aim of the BJS-SSP is to provide statistical and methodological support for existing and new data collections. BJS collects, analyzes, publishes, and disseminates information on policing, prosecution, courts, institutional corrections, community supervision, and victimization. The BJS-SSP will support efforts to expand the agency's capacity to collect, analyze, and report criminal justice data, increasing the breadth of substantive issues. Deadline: July 23

DOJ-BJA The Kevin and Avonte Program: Reducing Injury and Death of Missing Individuals with Dementia and Developmental Disabilities BJA seeks to reduce the number of deaths and injuries of individuals with forms of dementia (such as Alzheimer's disease) or developmental disabilities (such as autism) who, due to their condition, wander from safe environments. This program provides funding to law enforcement and other public safety agencies to implement to implement location tracking technologies to help find missing individuals. It provides funding to such agencies and partnering nonprofit organizations to develop or operate programs to prevent wandering, increase vulnerable individuals' safety, and facilitate rescues. Deadline: July 25

NEA Creative Forces NEA Military Healing Arts Network (Clinical Component) The mission of Creative Forces is to improve the health, well-being, and quality of life for military and veteran populations exposed to trauma, as well as their families and caregivers, by increasing knowledge of and access to clinical creative arts therapies and community arts engagement. The purpose of this program solicitation is to select an organization (Cooperator) to manage the Clinical component of the Creative Forces program (the Clinical Program) through a cooperative agreement. Activities will advance health and well-being at Creative Forces Clinical Sites. Deadline: July 16