June 26, 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 Advanced Computing Systems & Services: Adapting to the Rapid Evolution of Science and Engineering Research 2.0*** The intent of this solicitation is to request proposals from organizations who are willing to serve as resource providers within the NSF *Advanced Computing Systems and Services* (ACSS) program. Resource providers would (1) provide advanced cyberinfrastructure (CI) resources in production operations to support the full range of computation, data-analysis, and AI research across all of science and engineering (S&E), and (2) enable democratized and equitable access to the proposed resources. The current solicitation is intended to complement previous NSF investments in advanced computational infrastructure by provisioning resources, broadly defined in this solicitation to include systems and services, in two categories: Category I, Capacity Resources and Category II, Innovative Prototypes/Testbeds. Only ***one*** application is allowed per organization for each category as lead. *This competition is only for Category 1. Category 2 will be competed at a future date.*

   Internal deadline: Preproposal due in InfoReady by July 22 (template)

   Sponsor deadlines: October 29 – Category 1

   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 Cooperative Studies of the Earth's Deep Interior (CSEDI) The Division of Earth Sciences (EAR) invites the submission of proposals for collaborative, interdisciplinary studies of the Earth's interior within the framework of the community-based initiative known as Cooperative Studies of the Earth's Deep Interior (CSEDI). Funding will support basic research on the character and dynamics of the Earth's mantle and core, their influence on the evolution of the Earth as a whole, and on processes operating within the deep interior that affect or are expressed on the Earth's surface. Projects may employ any combination of field, laboratory, and computational studies with observational, theoretical, or experimental approaches. Deadline: September 23

NIH CCRP Initiative: NIH Countermeasures Against Chemical Threats (CounterACT) Basic Research on Chemical Threats that Affect the Nervous System (R01) This announcement invites applications for basic research projects on chemical warfare agents, toxic industrial chemicals, and pesticides that have primary or secondary effects on the nervous system. Chemical threats are toxic compounds that could be used in a terrorist attack or accidentally released from industrial production, storage, or shipping. Projects supported by this NOFO are expected to generate data that elucidate mechanisms of toxicity of these agents, possible new manifestations of toxic exposures, and potential new targets for therapeutic development. Deadline: October 17

NIH Interaction Between Environmental Factors and Lewy Body Dementia (R01) The proposed initiative will support research that firmly establishes causal links between a range of environmental factors and Lewy Body formation. We expect successful research proposals will draw expertise from neuroscientists that have deep expertise in basic, translational, and clinical research in ADRDs and scientists with expertise in exogenous factors that can influence the human body. Examples may include environmental toxicants, metals, and air pollution, among others. The goal is to identify novel, and potentially modifiable, targets of LBD. Deadline: October 4

NIH Mechanistic Studies to Investigate the Interrelationship Between Sleep and/or Circadian Rhythms and Substance Use Disorders (R01) The purpose of this notice of funding opportunity (NOFO) is to support research project applications to expand our knowledge on the biological mechanisms of the interrelationship between sleep/circadian rhythms and substance use disorders (SUDs). These basic science experimental studies will offer insights into the fundamental processes that link SUDs to disorders of sleep/circadian rhythms and vice-versa, and may also have implications for managing risks associated with developing SUDs and/or identifying new targets for prevention and therapeutics. Deadline: October 29

NIH NINDS Faculty Development Award to Promote Diversity in Neuroscience Research (K01) The purpose of the NINDS Faculty Development Award to Promote Diversity in Neuroscience Research (K01) is to diversify the pool of independent neuroscience research investigators by providing junior faculty with research cost support, protected research time and career stage appropriate professional development mentorship in neuroscience research. Individuals from backgrounds underrepresented in biomedical research are eligible for support under this award if they have doctoral research degrees (Ph.D. or equivalent) and are in the first 3 years of a faculty tenure track or equivalent position at the time of application. Deadline: October 12

NIH Alzheimer's Drug-Development Program (U01) The goal of this Notice of Funding Opportunity (NOFO) is to provide funding support for the pre-clinical and early stage clinical (Phase I) development of novel small-molecule and biologic drug candidates that prevent Alzheimer's disease (AD), slow its progression, or treat its cognitive and behavioral symptoms. Participants in this program will receive funding for therapy development activities such as medicinal chemistry; pharmacokinetics (PK); Absorption, Distribution, Metabolism, Excretion, Toxicology (ADMET); efficacy in animal models; development of biomarkers for target engagement; formulation development; chemical synthesis under Good Manufacturing Practices (GMP); Investigational New Drug (IND) enabling studies; and initial Phase I clinical testing. Deadline: February 5

DOD-DARPA TTO Office Wide (OW) BAA The DARPA Tactical Technology Office (TTO) creates technological surprise and provides new options for national security, by demonstrating revolutionary platforms and systems with cutting-edge technology. TTO demonstrates compelling hardware at scales that demonstrate disruptive capability, with designs that reduce risk and cost by managing complexity, and which can be manufactured

responsively and affordably. TTO is soliciting innovative executive summaries and proposals that enhance the nation's ability to rapidly build, adapt and sustain force structures with the following focus areas: Platform Innovation, Missionized Autonomy, Managing Complexity, Freedom's Forge 2.0, and Disruptive Emergent Technology. A Proposer's Day will be held on July 31-August 1. Deadline: On-going through June 20, 2025

DOD-NAVAIR FY24 Naval Air Warfare Center Aircraft Division Office-wide Broad Agency Announcement The Naval Air Warfare Center Aircraft Division (NAWCAD) is interested in receiving white papers for Research and Development projects which offer potential for advancement and improvement of NAWCAD operations. Areas of interest include: Aeromechanics; Artificial Intelligence (AI)/Machine Learning (ML); Avionics, Sensors & Electronic Warfare; Cyber; Data Science & Visualization; Digital Engineering; Human Systems; Hypersonic Systems; Materials and Aircraft Structures; Mechanical Systems; Power and Propulsion Systems; Quantum; Secure Communications & Networks; Support Equipment; Test and Evaluation Engineering; and Warfare Analysis. Deadline: On-going through June 20, 2025

DOE-NETL Inflation Reduction Act (IRA) – Methane Emissions Reduction Program Oil and Gas Methane Monitoring and Mitigation This FOA aligns with DOE's Office of Resource Sustainability's Methane Emissions Mitigation and Quantification Program to minimize emissions of methane during production, processing, and transportation across the oil and natural gas industry, with the goal of eliminating methane emissions from carbon-based fuel supply chains by 2030. The FOA objective is to make funds available to a variety of entities for the purpose of mitigating methane emissions from marginal conventional wells (MCWs) and other oil and natural gas assets; accelerating the commercialization, scale-up and application of innovative methane emissions reduction technologies; and advancing the characterization and reduction of methane emissions through multi-scale, measurement-informed data collection and analysis. Deadline: August 26

NEH Archaeological and Ethnographic Field Research The purpose of this program is to provide funding for empirical research in the United States or abroad that answers significant humanities questions through archaeological and/or ethnographic methods. This program supports field-related costs, such as travel, accommodation, field staff and equipment, and salary replacement for the project director and collaborating scholars. Deadline: September 25

NEH Humanities Connections Humanities Connections projects should plan or implement a curriculum connecting the humanities to one or more non-humanities fields, including but not limited to the physical and natural sciences; pre-service or professional programs, including law and business; or computer science, data science, and other technology-driven fields. Projects must incorporate the approaches and learning activities of both the humanities and the non-humanities disciplines involved. Deadline: September 5

3. **Other:**

Request for Information: USAID/Sudan's Feed the Future Agriculture-led Growth Activity Responses due by August 9