December 25, 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: ***ONO Pharma Breakthrough Science Initiative Awards Program*** Ono Pharma Foundation invites proposals from Principal Investigators that will be considered for high-risk and high-reward science research projects which have the potential to lead to science discoveries/solutions and, based on further research, to breakthrough treatments for patients. Applications will be considered from PIs in the Chemical Biology field for laboratory investigation to be carried out in the United States and Canada. For 2025, subjects of interest include but are not limited to: Modulating interactome and cell/tissue crosstalk; Manipulating biomolecular condensates and protein quality control systems; Deep understanding and emerging applications of chemical glycobiology; New concepts of drug delivery and localization to tissue/cell/organelle; and Understanding and leveraging allostery in biology. Eligible applicants must be within the first 15 years of the start of their independent academic appointment. The funding cannot be used to amplify current work; however, it can be a new idea based on prior findings. The PI cannot currently hold an active state license for which they are e (a) qualified to prescribe, administer, use or supply any medicinal or medical products or (b) perform any professional clinical services. Only ***two*** nominations are allowed per organization.

   Internal deadline: Preproposal due in InfoReady by January 6 (template)

   Sponsor deadlines: February 14 - LOI; May 8 - Proposal

   Limited Submission: ***Packard Fellowships for Science and Engineering Program*** Packard invests in future leaders who have the freedom to take risks, explore new frontiers in their fields of study, and follow uncharted paths that may lead to groundbreaking discoveries. Every year, the Foundation invites the presidents of 50 universities to nominate two early-career professors each from their institutions. 20 recipients will receive individual grants of $875,000 distributed over five years. Of the $175,000 paid each year, $17,500 is available to the university as compensation for administrative costs. Candidates must be faculty members who are eligible to serve as principal investigators engaged in research in the natural and physical sciences or engineering and must be within the first three years of their faculty careers. Disciplines that will be considered include physics, chemistry, mathematics, biology, astronomy, computer science, earth science, ocean science, and all branches of engineering. Candidates engaged in research in the social sciences will not be considered. *To apply, please contact the Faculty Recognition Program for preproposal requirements at facultyawards@purdue.edu.*

   Internal Deadline: February 6 - Preproposals

   Sponsor Deadlines: March 15 – Nominations due; April 20 – 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 Smart and Connected Communities (S&CC) The purpose of the S&CC program solicitation is to accelerate the creation of novel intelligent technologies and concepts through high-risk/high-reward research that addresses major challenges and issues faced by communities across the US. A "smart and connected community" is defined as a community that synergistically integrates intelligent technologies with the natural and built environments and with the functions of civic institutions and organizations. Proposals submitted to the program should be designed to advance one or more of the following community priorities: economic opportunity and growth; safety and security; human and environmental health and wellness; accessibility of critical services and resources; and the overall quality of life for those who live, work, learn, or travel within the community. To meet the goals of the program, researchers should work with community stakeholders to identify and define challenges the community faces, using that interaction and input to generate high-impact, use-inspired, basic research that advances science and engineering. Deadlines: February 20 – Preliminary proposal; April 4 - Proposal

NSF Translation and Diffusion (TD) This solicitation addresses issues of translation and diffusion that arise in moving knowledge gained from fundamental learning and education research toward application in PreK-12 STEM classroom practice or leveraging knowledge derived from effective practice toward driving fundamental research. The first goal of this funding opportunity is to encourage the scientific study of theories, frameworks, and models for the translation and diffusion of knowledge, especially between fields and across contexts and levels-of-analysis (e.g., biological to cognitive/socioemotional to behavioral; individual to classroom to broader demographic variables; lab to classroom to school to district). The second goal is to advance or move specific practice, research or scientific discovery in STEM education reciprocally along the research-practice continuum. The Translation and Diffusion (TD) solicitation invites four types of proposals: Research on Translation or Diffusion; Proof-of Concept Research; Synthesis; and Conference/Workshop. Deadline: April 1

NSF Antarctic Research Not Requiring U.S. Antarctic Program Field Support Through this solicitation, the Antarctic Sciences Section (ANT) of the Office of Polar Programs (OPP) funds cutting-edge research that: Improves understanding of interactions among the Antarctic region and global systems; Improves understanding of the dynamic linkages among processes operating in the Antarctic and Southern Ocean and linkages to global Earth systems, which helps inform decision making regarding environmental change; Advances fundamental understanding of Earth systems and the biological, geochemical, and physical processes in the Antarctic and Southern Ocean as drivers and responders to changes on a global scale; Expands fundamental knowledge of Antarctic systems, biota, and processes; Utilizes the unique characteristics of the Antarctic region as a science observing platform; and Builds capacity and enhances diversity in the US workforce for polar-related science. ANT encourages and supports research that combines disciplinary perspectives and approaches from other fields, research that uses existing data and samples, and other research not requiring a physical presence in Antarctica. This may include projects conducted at locations outside Antarctica that serve as analogues of Antarctic sites or systems. Deadline: June 2

NSF Antarctic Research Requiring U.S. Antarctic Program (USAP) Support for Fieldwork Through this solicitation, the Antarctic Sciences Section (ANT) of the Office of Polar Programs (OPP) funds cutting-edge research that: Improves understanding of interactions among the Antarctic region and global systems; Improves understanding of the dynamic linkages among processes operating in the Antarctic and Southern Ocean and linkages to global Earth systems, which helps inform decision making regarding environmental change; Advances fundamental understanding of Earth systems and the biological, geochemical, and physical processes in the Antarctic and Southern Ocean as drivers and responders to changes on a global scale; Expands fundamental knowledge of Antarctic systems, biota, and processes; Utilizes the unique characteristics of the Antarctic region as a science observing platform; and Builds capacity and enhances diversity in the US workforce for polar-related science. Antarctic fieldwork is supported only for research that must be performed, or is best performed, in Antarctica. Deadlines: January 31 – Concept paper; June 2 – Application

NSF Dear Colleague Letter: Amplifying STEM Education Investments in and with Rural and Remote Areas and Communities This DCL encourages proposals that support STEM education, research, and workforce ecosystems with and for learners, formal and informal educators, researchers, and local industry in and with rural and remote communities. Rural community members should be at the center of proposals responding to this DCL, reflected in project leadership and research positions, proposal conceptualization, decision-making and implementation, interpreting and communicating findings, and budget allocation. This DCL strongly encourages proposals from institutions of higher education, including two-year and community colleges, community-based organizations, informal STEM institutions, and non-profits located in rural and remote communities, in accordance with eligibility statements in each program's solicitation. Further, this DCL encourages proposals in which individuals from Historically Black Colleges and Universities (HBCUs), Hispanic Serving Institutions (HSIs), Tribal Colleges and Universities (TCUs), and other Minority Serving Institutions (MSIs) are lead investigators or co-investigators. Deadline: Varies

DOE-EERE Next Generation of Academia-Based Cyber Research, Development, and Demonstration (RD&D) This NOFO will support efforts to efficiently develop and ultimately integrate cybersecurity tools and technologies into energy infrastructure for enhanced resilience. The topic area of this NOFO is Partnerships to Identify and Mitigate National Security Threats. These research partnerships integrate rigorous academic approaches with real-world expertise. These academic partnership projects are multidisciplinary, which brings in power system operations, physics, computer science, these projects often involve partnerships with electric utilities, vendors, suppliers, national labs, and universities all working closely together towards the vision of resilient energy delivery systems. The academic partnership approach involves creating a research pipeline leading to cybersecurity products, tools and technologies that would be effective and affordable with the intention of being deployed and broadly adopted across the energy sector. *Cost sharing is required of at least 20%.* Deadline: February 18 Not limited

DOE-EERE Solar with Wildlife and Ecosystem Benefits 2 (SolWEB2) The goal of this funding opportunity is to improve the outcomes of large-scale solar (LSS) development for ecosystems, wildlife, and communities by soliciting projects that will a) test strategies that mitigate adverse impacts and/or maximize benefits to wildlife and ecosystems, b) provide technical assistance and stakeholder engagement opportunities to facilitate strategies that improve the compatibility of LSS facilities with wildlife, or c) provide technical assistance and conduct outreach to facilitate the adoption of agrivoltaics. *Cost sharing is required of at least 20%.* Deadlines: February 14 – Concept paper; May 2 – Full application Not limited

NASA-ROSES Advanced Component Technology The goals of the ACT program are to research, develop, and demonstrate component and subsystem-level technology development that: Enable new or greatly enhance remote sensing technologies for Earth observation measurements; and, Reduce the SWaP cost, development time, and operational complexity of Earth science remote sensing observation systems. For this program element, components are defined as the critical parts that comprise an instrument subsystem. Consequently, subsystems are defined as a series of interconnected components that comprise a part of an observational instrument or system. Deadlines: February 18 – LOI; April 10 - Proposal

NASA-ROSES Space Biology: Research Studies The NASA Space Biology Program solicits and funds research that will increase our understanding of how living systems respond to stressors encountered during space exploration. Space Biology-funded scientists conduct research across a wide spectrum of biological organization (biomolecules, cells, tissues, organs, organ systems, whole organisms, microbe-host interactions, and ecosystems) and model systems to probe deeply into underlying mechanisms by which organisms acclimate to stressors encountered during space exploration (e.g., altered gravity, ionizing radiation, low magnetic fields, elevated concentrations of carbon dioxide, etc.). This research reveals how biological systems regulate and sustain growth, metabolism, reproduction, and development in space and how they repair damage and protect themselves from infection and disease. Deadlines: February 4 – LOI; May 6 - Proposal

NASA-ROSES Physical Sciences Research Studies This call for proposals seeks 1) ground-based investigations that develop or refine concepts for experimental research enabled by microgravity and the space environment, 2) ground-based investigations that use existing results from previous space experiments to achieve new research objectives, and 3) flight experiments that can be developed and executed within a constrained schedule and resource envelope. Deadlines: February 4 – LOI; May 6 - Proposal

DoED-IES Research Education Research and Development Center Program Through the Education Research and Development Center Program, the Institute of Education Sciences (IES) funds Research and Development (R&D) centers to conduct a focused program of research that will contribute to solving a specific education problem and generate new knowledge in their topic area; provide national leadership, research training, capacity building, and outreach within their topic area; and conduct relatively rapid research and scholarship on supplemental questions that emerge within their topic area. Deadline: March 14

3. **Anticipated Funding Opportunities**

NIH Notice of Intent to Publish a Funding Opportunity Announcement for Academic Career Excellence (ACE) Award (K32)

NIH Notice of Intent to Publish a Funding Opportunity Announcement for NCI Continuing Umbrella of Research Experiences (CURE) Academic Career Excellence (ACE) Award (K32)

4. **Other:**

OOR Workshop: How to Write a Competitive NSF CAREER Proposal The Office of Research is hosting a workshop for faculty in all disciplines who are interested in writing a proposal for the prestigious NSF CAREER program. The workshop will be held on **Tuesday, January 28; Noon to 1:30PM; Stewart Center, room 218**. CAREER-eligible faculty must be pre-tenured and may not participate in more than three CAREER competitions. Sally Bond, director of Proposal Strategy and Development, will address the unique requirements of the CAREER program and help faculty to:

- Analyze winning CAREER components.
- Understand best practices for integrating education and research.
- Prepare for a program officer conversation.
- Identify institutional resources to leverage.
- Review templates for proposal planning and writing.

Please feel free to bring your lunch with you to the workshop. Before the workshop, participants should read the NSF CAREER solicitation and FAQs available at https://new.nsf.gov/funding/opportunities/career-faculty-early-career-development-program.
Registration is required at: https://purdue.ca1.qualtrics.com/jfe/form/SV_cRMSfbAZSPNu5LM