February 14, 2024

Please see below for a partial list of funding opportunities.

PLEASE NOTE: Pivot E-mail Alerts, set up individually by faculty members, are Purdue's primary resource for timely funding information in all disciplines. More information about Pivot and other e-mail alert services and search tools may be found here.

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Please contact Sue Grimes (sgrimes@purdue.edu) with any questions.

1. **Limited Submissions:**

   Preproposals and rankings should be submitted via Purdue's InfoReady portal (https://purdue.infoready4.com/). 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. 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 EVPRPlimited@purdue.edu.

   Limited Submission: ***DOE-SC Advancements in Artificial Intelligence for Science*** The DOE SC program in Advanced Scientific Computing Research (ASCR) hereby announces its interest in basic computer science and applied mathematics research in the fundamentals of Artificial Intelligence (AI) for science. Specifically, advancements in this area are sought that can enable the development of: Foundation models for computational science; Automated scientific workflows and laboratories; Scientific programming and scientific-knowledge-management systems; Federated and privacy-preserving training for foundation and other AI models for science; and Energy-efficient AI algorithms and hardware for science. Only ***three*** submissions are allowed per institution as lead.

   Internal deadline: Preproposal due in InfoReady by February 26 (template)

   Sponsor deadlines: March 19 – Pre-application; May 21 – Application

   Limited Submission: ***NSF General Social Survey Competition*** The General Social Survey (GSS) is a nationally representative interview survey of the United States adult population that collects data on a wide range of topics: behavioral items such as group membership and participation; personal psychological evaluations including measures of well-being, misanthropy and life satisfaction; attitudinal questions on such public issues as crime and punishment, race relations, gender roles and spending priorities; and demographic characteristics of respondents and their parents.

   Internal deadline: Preproposal due in InfoReady by February 26 (template)

   Sponsor deadlines: June 3 – LOI; August 15 – Application

2. **Selected Funding Opportunities**:

   NSF Distributed Array of Small Instruments The Distributed Array of Small Instruments (DASI) solicitation is designed to address the increasing need for high spatial and temporal resolution measurements to determine the local, regional, and global scale processes that are essential for addressing the fundamental questions in solar and space physics. This solicitation will be formally divided into two tracks: 1) development of instrumentation for future deployment in arrays and 2) deployment and operation of existing instruments in

distributed arrays. This DASI solicitation emphasizes both strong scientific merit and a well-developed plan for student training and involvement of a diverse workforce. Deadline: May 15

NSF Division of Molecular and Cellular Biosciences Core Programs (MCB) The program gives high priority to projects that advance mechanistic understanding of the structure, function, and evolution of molecular, subcellular, and cellular systems, especially research that aims at quantitative and predictive knowledge of complex behavior and emergent properties. MCB encourages research exploring new concepts in molecular and cellular biology, while incorporating insights and approaches from other scientific disciplines, such as chemistry, computer science, engineering, mathematics, and physics, to illuminate principles that govern life at the molecular and cellular level. MCB also encourages research that exploits experimental and theoretical approaches and utilizes a diverse spectrum of model and non-model animals, plants, and microbes across the tree of life. Proposals that pursue potentially transformative ideas are welcome, even if these entail higher risk. Deadline: On-going

NSF ACED: Accelerating Computing-Enabled Scientific Discovery (ACED) The ACED program seeks to harness computing to accelerate scientific discovery, while driving new computing advancements. The intent is to catalyze advancements on both sides of a virtuous cycle that: (a) benefit scientific disciplines through computational technologies and (b) foster novel computing technologies that will enable advances beyond the specific use cases or domains originally targeted. The program seeks continuous collaborations between at least two groups of researchers. One group is expected to consist of researchers in computing and the other group of researchers are expected to represent another scientific or engineering discipline. There are two tracks: Emerging Ideas Proposals and Discovery Proposals. Deadline: May 13

NSF Multi-Messenger Coordination for Windows on the Universe The Multi-Messenger Coordination for Windows on the Universe (MMC-WoU) program will support the development of pathways or networks to increase the coordination and optimization of follow-up observations for MMA campaigns. Deadline: May 13

HHS-FDA Drug Development Tools Research Grants (U01) The purpose of this funding opportunity announcement (FOA) is to support research to continue the development of drug development tools that have an accepted or a reviewable Letter of Intent (LOI) within a drug development tool qualification program within either CBER or CDER. The grants will be used to further the development of tools that, once qualified, will be made publicly available to fill unmet needs in drug development. Deadline: May 13

DOD-CRANE Long Range Broad Agency Announcement (BAA) for NSWC Crane This announcement seeks revolutionary research ideas, and technology demonstrators that offer potential for advancement and improvement of NSWC Crane's primary mission areas. Crane specializes in total lifecycle support in three broad focus areas: Expeditionary Warfare, Strategic Missions, and Electronic Warfare. Deadline: On-going

DOD-ONR Young Investigators Program ONR's Young Investigator Program seeks to identify and support academic scientists and engineers who are in their first or second full-time tenure-track or tenure-track-equivalent academic appointment, who have received their PhD or equivalent degree on or after 01 January 2017, and who show exceptional promise for doing creative research. The objectives of this program are to attract outstanding faculty members of U.S. Institutions of Higher Education to the Department of the Navy's Science and Technology (S&T) research program, to support their research, and to encourage their teaching and research careers. Deadline: April 30

DOE-NETL Flexible and Innovative Transformer Technologies (FITT) The objective of this Funding Opportunity Announcement (FOA) is to stimulate innovative designs, prototypes, and field demonstration exercises of advanced distribution and/or power transformers (e.g., flexible, modular, scalable, hybrid, and solid-state transformers) that can be readily utilized across a range of distribution to transmission scale applications. Deadline: April 12

DOE-NETL Fiscal Year 2024 VTO Technology Integration (TI) This FOA seeks applications to address outreach, education, technical assistance, workforce training, and other innovative demonstration or deployment projects that advance the mission of an affordable, equitable, and decarbonized transportation system. Topics of interest include: Clean Cities Outreach, Engagement, and Technical Assistance; Training on Zero Emission Vehicle and Infrastructure Technologies for Critical Emergency Response Workers; and Clean Transportation Demonstration and Deployment. Deadlines: March 12 – Concept paper; April 30 – Full application

DOE-NETL Carbon Negative Shot Pilots This FOA aims to expand the current DOE's portfolio of CDR technologies (e.g., biomass carbon removal and storage, enhanced mineralization, ocean1based CDR, DAC, etc.) to advance technologies that will ultimately achieve the Carbon Negative Shot target of under $100/net tonne CO2e removed (i.e., both capture and storage), by 2032. Topics of interest include: Small Biomass Carbon Removal and Storage (BiCRS) Pilots; Small Mineralization Pilots; and Multi-Pathways CDR Testbed Facilities. Deadline: April 16

DOE-GFO Regional Resource Hubs for Purpose-Grown Energy Crops The 2024 Regional Resource Hubs for Purpose-Grown Energy Crops FOA supports the focus of the BETO Renewable Carbon Resources Program in developing strategies and supporting technology development to reduce the cost, improve the quality, increase the quantity, and maximize the environmental benefits of using renewable carbon resources. The FOA addresses enabling the mobilization of low carbon intensity purpose-grown energy crops across varied agronomic and geographic landscapes through the generation of data and research findings. The FOA seeks applications that will support resource mobilization, including improvements to quality, yield, cost, mechanization of propagation/planting systems, pest management, carbon intensity reduction, ecosystem services, and more from the cultivation of purpose-grown energy crops. Deadlines: March 14 – Concept paper; June 13 - Application

NASA-ROSES 2024 NASA has released it's 2024 Research Opportunities in Space and Earth Sciences (ROSES) solicitation. The full list of topics and their due dates are listed in Table 3. Deadline: Varies

DOC-NIST Precision Measurement Grant Program (PMGP) NIST supports advances in fundamental measurement, the determination of fundamental constants, and fosters extramural collaboration with NIST scientists. The PMGP also is intended to make it possible for researchers to pursue new ideas for which other sources of support may be difficult to find. Deadline: April 9

USDA-FAS 2024 Scientific Exchange Program – Women in Sustainable Food Systems The Scientific Exchange Program (SEP) leverages the latest developments in cross-cutting agricultural priorities, research, and technologies to educate a new generation of agricultural scientist to promote trade, trade policy, trade capacity building, and food security. The collaborative nature of the SEP leadership training and research programs improves agricultural productivity, systems, and processes in partnering emerging market economies through the transfer of new science and agricultural technologies. SEP focuses on a cohort of Fellows who spend up to 12 weeks at the U.S. academic institution (host institution) and work directly with U.S. scientists in their fields. Mentors coordinate the training program in the United States. Upon the Fellow's return home, the Mentor travels to the Fellow's country to follow-up. Deadline: March 25

USDA-NIFA Emergency Citrus Disease Research and Extension Program NIFA requests pre-applications for the ECDRE program to address priorities identified by the Citrus Disease Sub-committee (CDS) of the National Agricultural Research, Education, Extension and Economics (NAREEE) Advisory Board through projects that integrate research and extension activities and use systems-based, trans-disciplinary approaches to provide solutions to U.S. citrus growers. Deadline: March 28

3. **Anticipated Funding Opportunities**

DOE Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0003274: Mixed Algae Conversion Research Opportunity (MACRO)

4. **Other:**

NSF Dear Colleague Letter: Special Guidelines for Submitting Collaborative Proposals under U.S. National Science Foundation (NSF) and the Department of Biotechnology (DBT) of India Collaborative Research Opportunities