July 19, 2023

Dear Associate Deans for Research and Department Heads,

Please see below for a partial list of funding information that may be of interest to members of your faculty.

PLEASE NOTE: Pivot [formerly Community of Science (COS)] 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.

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 EVPRP will notify the PI(s) that an internal competition will be unnecessary. Questions should be addressed to EVPRPlimited@purdue.edu.

   Limited Submission: ***NSF National Quantum Virtual Laboratory*** With this program solicitation, the Foundation is introducing the National Quantum Virtual Laboratory (NQVL) concept as an overarching shared infrastructure designed to facilitate the translation from basic science and engineering to the resultant technology, while at the same time emphasizing and advancing its scientific and technical value. The NQVL aims to develop and utilize use-inspired and application-oriented quantum technologies. In the process, NQVL researchers will explore quantum frontiers[6], foster QISE workforce education and training, engage in outreach activities at all levels, and promote broadening participation, diversity, equity, and inclusion in QISE, thereby lowering barriers at all entry points of the research enterprise. This solicitation lays out a vision for the entire NQVL program that includes Quantum Science and Technology Demonstration (QSTD) projects, support for enabling technologies through Transformative Advances in Quantum Systems (TAQS), as well as a central coordination hub. *Only proposals for Pilot phase QSTDs are solicited at this time.* Only ***one*** QSTD Pilot proposal allowed as lead.

   Internal deadline: Preproposal due in InfoReady by August 7 (template)

   Sponsor deadlines: October 6 – LOI; November 30 - Proposal

2. **Selected Funding Opportunities**:

   NSF Alan T. Waterman Award ~ Call for Nominations The Alan T. Waterman is the U.S. National Science Foundation's (NSF) Highest Honor. The award recognizes an outstanding early career researcher in any field of science or engineering supported by the NSF. In addition to a medal, the awardee receives a grant of $1,000,000 to use over a five-year period for scientific research or advanced study in the mathematical, physical, biological, engineering, social, or other sciences at the institution of the recipient's choice. Nominees should have demonstrated exceptional individual achievements in scientific or engineering research of sufficient quality, originality, innovation and significant impact on the field to place them at the forefront of their peers. Deadline: September 15

   NSF Computational and Data-Enabled Science and Engineering (CDS&E) The CDS&E meta-program encourages research that pushes the envelope of science and engineering through computation and data, welcoming proposals in any research area supported by the participating divisions. A proposal may address topics that develop or enable interactions among theory, computing, experiment, and observation to achieve progress on hitherto intractable science and engineering problems. Areas of emphasis for CDS&E vary by program. Deadline: Varies

NSF Mathematical Sciences Research Institutes Mathematical Sciences Research Institutes are national resources that aim to advance research in the mathematical sciences through programs supporting discovery and dissemination of knowledge in mathematics and statistics and enhancing connections to related fields in which the mathematical sciences can play important roles. Institute activities help focus the attention of some of the best mathematical minds on problems of particular importance and timeliness. Institutes are also community resources that involve a broad segment of U.S.-based mathematical sciences researchers in their activities. The goals of the Mathematical Sciences Research Institutes program include advancing research in the mathematical sciences, increasing the impact of the mathematical sciences in other disciplines, and expanding the talent base engaged in mathematical research in the United States. Deadline: March 14

NIH Research Resource for Systematic Reviews of Complementary and Integrative Health (R24) This initiative seeks a research resource that will continue to build, grow and maintain a database of clinical trials of complementary and integrative health interventions, that can be used to conduct systematic reviews to inform the public, practitioners, and policy makers. The research team will need to describe the features of the database, and whether it is building upon or converting an existing database, and how it will be maintained and kept current during the award period. Deadline: August 31

NIH Mechanisms of Fusion-Driven Oncogenesis in Childhood Cancers (U01) Through this Notice of Funding Opportunity (NOFO), the National Cancer Institute (NCI) intends to solicit applications for basic research projects investigating the molecular mechanisms by which fusion oncoproteins drive pediatric cancers. The overall goal of this solicitation and the companion NOFO, RFA-CA-23-037, is to form a new dynamic network of investigators that will use rigorous and collaborative efforts to advance our understanding of the mechanisms of action of fusion oncoproteins in pediatric cancers and to apply novel chemical strategies to accelerate innovative drug discovery and preclinical development of therapeutics for fusion oncoprotein-driven childhood cancers. Deadline: November 15

NIH Next Generation Chemistry Centers for Fusion Oncoproteins (UM1) Through this Notice of Funding Opportunity (NOFO), the National Cancer Institute (NCI) intends to create multidisciplinary research groups or partnerships for the discovery of pharmacological agents to treat fusion oncoprotein-driven childhood cancers. This NOFO will use the UM1 mechanism to fund Next Generation Chemistry (NGC) Centers with interdisciplinary teams focusing on innovative medicinal chemistry, chemical biology and chemoproteomic approaches to target fusion oncoprotein-driven cancers. Deadline: November 15

ARPA-H Open Office BAA The mission of ARPA-H is to accelerate better health outcomes for everyone by supporting the development of high-impact solutions to society's most challenging health problems. ARPA-H has identified four initial focus areas that are a priority for investment: (1) Health Science Futures; (2) Scalable Solutions; (3) Proactive Health; and (4) Resilient Systems; as well as targeted investments in tools that enable quantitative measurements of health outcomes, promote end-user adoption, facilitate participatory research, and advance relevant Ethical, Legal, and Societal Implications (ELSI) topics. Deadline: March 14

DOE-NETL BIL Front-End Engineering and Design Studies for Production of Critical Minerals and Materials from Coal-Based Resources The Bipartisan Infrastructure Law will invest appropriations of $32 million for Front-End Engineering and Design studies for two different sizes, intermediate-scale and demonstration-scale, of Rare Earth Element Facilities that demonstrate the extraction, separation, and refining from coal and coal by-products to high purity individual or binary rare earth metals and/or critical minerals and materials. Deadline: September 11

DOD-DEVCOM Foundations of Superconducting Digital Logic (FSDL) DEVCOM ARL-ARO, in collaboration with the Laboratory for Physical Sciences (LPS), is soliciting proposals for foundational research in superconducting electronics (SCE). SCE is a promising technology for high-speed and energy-efficient digital circuits, but scaling towards denser and more reliable systems has been slow. The goal of the Foundations of Superconducting Digital Logic (FSDL) program is to uncover foundational issues limiting the progress of this technology and to pursue innovative research into overcoming these issues across topics such as materials, Josephson junctions,

flux trapping, and architecture. FSDL aims to provide the foundation to enable breakthroughs in circuit density and reliability for future SCE-based systems. Deadlines: August 15 – White paper; October 31 - Proposal

DOD-ONR Class of 2024 Vannevar Bush Faculty Fellowship (VBFF) Program The VBFF program is sponsored by the Basic Research Office, Office of the Under Secretary of Defense for Research and Engineering (USD (R&E)). VBFF supports innovative basic research within academia, as well as opportunities intended to develop the next generation of scientists and engineers for the defense workforce. This FOA seeks distinguished researchers for the purpose of conducting innovative basic research in areas of interest to the DoD and fostering long-term relationships between the VBFF Fellows and the DoD. Deadlines: September 29 – White paper; February 9 – Full proposal

3. **Other:**

USDA Requests Public Comment on the Federal Strategy to Advance Greenhouse Gas Measurement and Monitoring for the Agriculture and Forest Sectors

NSF Dear Colleague Letter: Update to the Division of Earth Sciences (EAR) Data and Sample Policy

NSF Informational Webinar on NSF Pathways to Enable Open-Source Ecosystems (POSE) Program Webinar is July 27 at 3:30PM ET

****Purdue faculty and research staff:** To directly receive this newsletter in your inbox, please sign up for the listserv here: https://lists.purdue.edu/mailman/listinfo/weeklyfundingopps. Only *purdue.edu* e-mail addresses will be accepted.**

As always, we appreciate your sharing this information with your faculty. Please contact Sue Grimes (sgrimes@purdue.edu) with any questions or comments related to this e-mail.