May 1, 2024

Please see below for a partial list of funding opportunities of interest to faculty and full-time research staff. **The list is not intended for students.**

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.

** To receive this newsletter directly to your inbox, please sign up for the listserv by emailing listserv@lists.purdue.edu. Leave the subject blank and in the message body type: subscribe Weeklyfundingopps [your_first_name] [your_last_name]. Only *purdue.edu* e-mail addresses will be accepted.**

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: ***Intel Rising Star Faculty Award*** Intel's Rising Star Award (RSA) provides an award of $50,000 and networking support to faculty members who are early in their academic careers and show great promise as future academic leaders. The purpose of this Program is to help promote the careers of promising early career faculty members and to foster long term collaborative relationships with Intel. Intel is looking for innovative and disruptive ideas in electrical engineering, computer science & engineering, material science, chemical engineering, mechanical engineering, and other STEM fields relevant to the semiconductor industry, which have potential to significantly advance semiconductor technologies and the future of computing. Eligible applicants should be full-time, tenured or tenure-track faculty with four years or less as faculty (as of Sept 24). Applicants should have made significant contributions to research and education that have potential to be disruptive to the semiconductor and computing industry, should not have received a previous RSA award, and should not have been employed by Intel for longer than two years. Only ***one*** nomination is allowed per university.

   Internal deadline: Preproposal due in InfoReady by May 13 (template)

   Sponsor deadline: June 7

   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 Molecular Foundations for Sustainability: Sustainable Polymers Enabled by Emerging Data Analytics (MFS-SPEED) The goal of MFS-SPEED is to support fundamental research enabling the accelerated discovery and ultimate manufacturing of sustainable polymers using state-of-the-art data science, and to enhance development of a cross-disciplinary workforce skilled in this area. In particular, through this solicitation the research community is encouraged to address the discovery and elaboration of new sustainable polymers or sustainable pathways to existing polymers by the creation and use of a data-centric environment where research projects are: (1) focused on new approaches to predicting structure and properties of polymers and advanced soft materials, (2) with insights enabled by data analytics including Artificial Intelligence/Machine Learning; (3) This includes more efficient, scalable preparation of monomers and polymers using existing or new synthetic routes (4) and this call aims to train a technical workforce that leverages data analytics to create sustainable polymers and soft materials. Deadlines: December 5 – LOI; January 16 – Full proposal

NSF Dear Colleague Letter: Using Long-Term Research Associated Data (ULTRA-Data) This DLC seeks to stimulate and encourage the use and reuse of data from environmental time series research to improve generalizable understanding in fields including (but not limited to) ecology, organismal evolution/adaptation, geoscience, and oceanography. NSF seeks to support diverse teams of investigators and institutions in the scientific activities that it funds. Submissions that benefit and involve the full breadth of the research community, including undergraduates, graduate students, postgraduates, and faculty at all institutions of higher education are encouraged. NSF is broadly interested in enabling discovery through the use and reuse of existing resources with untapped potential. Proposals responsive to this DCL should be primarily focused on utilizing data from environmental time series. Deadline: Varies

NSF Dear Colleague Letter: IUCRC Proposals for Research and Thought Leadership on Insurance Risk Modeling and Underwriting Related to Terrorism and Catastrophic Cyber Risks: A Joint NSF and U.S. Department of the Treasury Federal Insurance Office Call The goal of this DCL is to stimulate research in areas that support the effective provision of insurance against terrorism and catastrophic cyber risks. Such research will, in turn, develop best practices and tools; assess policy reforms or solutions that could provide insurers, governments, and other stakeholders with new data; and develop improved modeling and underwriting tools, methodologies, and practices. Deadlines: September 11 – Preliminary proposal; December 11 - Proposal

NIH Understanding the Intersection of Social Inequities to Optimize Health and Reduce Health Disparities: The Axes Initiative (R01) The Axes Initiative will support research to understand health at the intersections of social statuses such as race, ethnicity, socioeconomic status, sexual orientation, and ability, by examining contributions of social and other determinants of health. This NOFO requires a Plan for Enhancing Diverse Perspectives (PEDP), which will be assessed as part of the scientific and technical peer review evaluation. Deadline: July 5

NIH Engineering Durable HIV Vaccine Responses (ENDURE) (R01) The purpose of this NOFO is to support basic and applied research to understand and improve durable immune responses to candidate HIV vaccines. Deadline: October 9

NIH NHLBI Outstanding Investigator Award (OIA) (R35) The purpose of the NHLBI Outstanding Investigator Award (OIA) is to promote scientific productivity and innovation by providing long-term support and increased flexibility to experienced Program Directors/Principal Investigators (PDs/PIs) who are currently PDs/PIs on at least two NHLBI R01-equivalent awards and whose outstanding record of research demonstrates their ability to make major contributions to heart, lung, blood and sleep (HLBS) research. The OIA is intended to support a research program, rather than a research project, by providing the primary and most likely sole source of NHLBI

funding on individual grant awards. The OIA will support the research program of NHLBI-funded investigators for up to seven years. Deadline: February 19

NIH NHLBI Emerging Investigator Award (EIA) (R35) The purpose of the NHLBI Emerging Investigator Award (EIA) is to promote scientific productivity and innovation by providing long-term support and increased flexibility to experienced Program Directors/Principal Investigators (PDs/PIs) who are currently PDs/PIs on at least two NHLBI R01-equivalent awards (of which one must be an NHLBI-funded NIH Early Stage Investigator (ESI) award) and whose outstanding record of research demonstrate their ability to make major contributions to the heart, lung, blood and sleep (HLBS) research. The EIA is intended to support an investigator's research program, rather than a research project, by providing the primary and most likely sole source of NHLBI funding on individual grant awards. The EIA will support the research program of NHLBI-funded investigators for up to seven years and will provide increased freedom to conduct research that breaks new ground or extends previous discoveries in new directions. Deadline: February 19

NIH Independent Scientist Award The purpose of the NIH Independent Scientist Award (K02) is to foster the development of outstanding scientists and enable them to expand their potential to make significant contributions to their field of research. The K02 award provides three to five years of salary support and "protected time" for newly independent scientists who can demonstrate the need for a period of intensive research focus as a means of enhancing their research careers.

- ***Parent K02 Independent Basic Experimental Studies with Humans Required*** Deadline: June 12
- ***Parent K02 - Independent Clinical Trial Required*** Deadline: June 12
- ***Parent K02 - Independent Clinical Trial Not Allowed*** Deadline: June 12

NIH Midcareer Investigator Award in Patient-Oriented Research The purpose of the NIH Midcareer Investigator Award in Patient-Oriented Research (K24) is to provide support to mid-career health-professional doctorates for protected time to devote to patient-oriented research (POR) and to act as research mentors for junior clinical investigators pursuing POR research, such as clinical residents and/or junior clinical faculty.

- ***Parent K24 Independent Clinical Trial Required*** Deadline: June 12
- ***Parent K24 Independent Clinical Trial Not Allowed*** Deadline: June 12
- ***Parent K24 - Independent Basic Experimental Studies with Humans Required*** Deadline: June 12

NIH Mentored Research Scientist Development Award The purpose of the NIH Mentored Research Scientist Development Award (K01) is to provide support and protected time (three to five years) for an intensive, supervised career development experience in the biomedical, behavioral, or clinical sciences leading to research independence. Although all participating NIH Institutes and Centers (ICs) use this support mechanism to support career development experiences that lead to research independence, some ICs use the K01 award for individuals who propose to train in a new field or for individuals who have had a hiatus in their research career because of illness or pressing family circumstances.

- ***Parent K01 - Independent Clinical Trial Required*** Deadline: June 12
- ***Parent K01 - Independent Clinical Trial Not Allowed*** Deadline: June 12
- ***Parent K01 Independent Basic Experimental Studies with Humans Required*** Deadline: June 12

NIH Mentored Clinical Scientist Research Career Development Award The primary purpose of the NIH Mentored Clinical Scientist Research Career Development Awards (K08) program is to prepare qualified individuals for careers that have a significant impact on the health-related research needs of the Nation. This program represents the continuation of a long-standing NIH program that provides support and "protected time" to individuals with a clinical doctoral degree for an intensive, supervised research career development experience in the fields of biomedical and behavioral research, including translational research.

- ***Parent K08 Independent Clinical Trial Required*** Deadline: June 12
- ***Parent K08 Independent Clinical Trial Not Allowed*** Deadline: June 12
- ***Parent K08 Independent Basic Experimental Studies with Humans Required*** Deadline: June 12

NIH Pathway to Independence Award The purpose of the NIH Pathway to Independence Award (K99/R00) program is to facilitate a timely transition of outstanding postdoctoral researchers with a research and/or clinical doctorate degree from mentored, postdoctoral research positions to independent, tenure-track or equivalent faculty positions. The program will provide independent NIH research support during this transition in order to help awardees to launch competitive, independent research careers.

- ***Parent K99/R00 Independent Clinical Trial Required*** Deadline: June 12
- ***Parent K99/R00 Independent Clinical Trial Not Allowed*** Deadline: June 12
- ***Parent K99/R00 Independent Basic Experimental Studies with Humans Required*** Deadline: June 12

DOD-DARPA Somnus DARPA seeks to identify gut microbiota and downstream biomolecules (e.g., metabolites, lipids, peptides, nucleic acids, etc.), and host-microbiome interactions associated with acute sleep deprivation and recovery and corresponding changes in cognitive function. Successful proposals must adhere to validated and published methods of acute sleep deprivation protocols and must include cognitive assessments with demonstrable sensitivity to sleep deprivation, as reported in published literature. Somnus aims to test the hypothesis that molecular/biochemical pathways between the gut and the brain are associated with sleep-deprivation induced cognitive performance deficits. Deadline: June 5

DOD-CDMRP Multiple Sclerosis Research Program (MSRP) Since its inception in fiscal year 2009, the Multiple Sclerosis Research Program (MSRP) has supported innovative and impactful research that addresses fundamental issues and gaps in MS. The vision of the MSRP is to prevent, cure, reverse, or slow the progression and lessen the personal and societal impact of MS. Mechanisms include: Clinical Trial Award; Early Investigator Research Award; Exploration – Hypothesis Development Award; Investigator-Initiated Research Award. Deadline: Varies by mechanism

DOD-CDMRP Tick-Borne Disease Research Program (TBDRP) The Tick-Borne Disease Research Program (TBDRP) was established in fiscal year 2016 (FY16) to support innovative and impactful research that addresses these fundamental issues and gaps in tick-borne diseases. Hallmarks of TBDRP funding include the involvement of Lyme and tick-borne disease advocates in our two-tier review process, as well as the mission of addressing tick-borne diseases as a threat to military forces and their dependents. Mechanisms include: Idea Development Award and Therapeutic/Diagnostic Research Award. Deadlines: June 26 – Pre-application; October 3 - Application

DOD-CDMRP Tuberous Sclerosis Complex Research Program Tuberous sclerosis is a genetic disorder that can affect any or all systems of the body. The disorder is characterized by seizures, developmental delays, kidney disease, behavioral problems, and the growth of benign tumors (tubers) on vital organs such as the brain, kidneys, and heart. Mechanisms include: Exploration-Hypothesis Development Award; Idea Development Award; and Clinical Translational Research Award. Deadlines: June 12 – LOI; August 1 - Application

DOE-FECM Regional Scale Collaboration to Facilitate a Domestic Critical Minerals Future: Carbon Ore, Rare Earth, and Critical Minerals (CORE-CM) Initiative The vision of the Carbon Ore, Rare Earth, and Critical Minerals (CORE-CM) Initiative is to catalyze regional economic growth and job creation by realizing the full potential value of natural resources, such as coal, throughout the United States. It has been designed to address the upstream and midstream critical minerals and materials (CMM) supply chain and downstream manufacturing of valuable, nonfuel, carbon-based products, to accelerate the realization of full potential for unconventional and secondary sources of CMM and carbon ore across the United States. Feedstocks that could be considered for domestic production to enhance national and economic security of CMM include fossil fuel energy and similar waste streams, such as coal waste and by-products, oil and gas produced waters, active mineral mines tailings and byproducts, and brines produced as part of carbon sequestration efforts. They can also be used as sources of carbon for production of valuable, nonfuel, carbon-based products (CBPs). Deadline: June 24

DOS-ISN Increasing Cyber and Physical Security of Global Artificial Intelligence Research and Development
This ISN/NDF NOFO seeks to provide assistance to organizations developing advanced AI systems to improve their physical security and cyber security measures and mitigate against loss, theft, or diversion of AI systems

and their components (e.g., information security practices, hardware/software procurement, personnel management, operational security, insider threat mitigation). Specifically, this project aims to convene key domestic and international stakeholders to develop physical and cyber security solutions, and then to pilot the implementation of those solutions at a foreign AI developer. Deadline: May 31

DoED-OPE Graduate Assistance in Areas of National Need (GAANN) The GAANN Program provides grants to academic departments and programs of institutions of higher education (IHEs) to support graduate fellowships for students with excellent academic records in their previous programs of study who demonstrate financial need and plan to pursue the highest degree available in their course of study at the institution. A project must provide fellowships in one or more of the following areas of national need: computer and information sciences; education; engineering; biological sciences/life sciences; mathematics; physical sciences; or psychology. Deadline: June 24

DoED-OPE Federal TRIO Programs: Student Support Services (SSS) Program The purpose of the SSS Program is to increase the number of disadvantaged students, including low-income college students, first-generation college students, and college students with disabilities, who successfully complete a program of study at the postsecondary level. The support services that are provided should increase the retention and graduation rates for these categories of students and facilitate their transfer from two-year to four-year colleges and universities. The support services should also foster an institutional climate that supports the success of students who are limited English proficient, students from groups that are historically underrepresented in postsecondary education, students with disabilities, students who are homeless children and youths, students who are in foster care or are aging out of the foster care system, and other disconnected students. Student support services should also improve the financial and economic literacy of students. Deadline: July 15

Vilcek Foundation Vilcek Prizes for Creative Promise in Biomedical Sciences In 2025, the Vilcek Foundation will award three prizes of $50,000 to immigrant and foreign-born research scientists living and working in the United States. To be eligible candidates must be no more than 38 years old, hold a PhD, and be employed full time in a research capacity as a principal investigator. Candidates must have been born outside of the United States to non-American parents, and must have lived in the United States for at least 4 years. Prizewinners are selected for the scientific rigor of their work, and for the impact of their work in their respective field of study. Deadline: June 10

The Mark Foundation ASPIRE Awards: Breaking Ground in Targeting Gastric and Esophageal Tumors The Mark Foundation is holding a request for proposals through The Mark Foundation's ASPIRE Award program for projects focused on tumors of the upper GI tract. Proposals should cover topics such as understanding the molecular mechanisms underlying tumor initiation and progression, resistance, and metastasis; identifying novel biomarkers for early detection; and developing innovative treatment strategies including identifying and characterizing novel targets. Proposals should aim to drive disruptive research, with the goal of advancing the field of gastric and esophageal cancer research and ultimately improving patient outcomes. Deadline: May 27 – LOI; Full application by invite

CTSI Clinical & Translational Science (CTS) Pilot Grant Program The objective of the new Indiana CTSI Clinical & Translational Science (CTS) pilot grant mechanism is to initiate or continue translational science projects that help identify translational methods and processes relevant across a range of diseases, treatments, and interventions. The key objective of the projects should be to develop methodological innovations and/or produce crosscutting solutions for common and persistent challenges to reduce, remove, or bypass significant bottlenecks across the continuum of translation. Deadline: September 4

3. **Anticipated Funding Opportunities**

DOE Notice of Intent (NOI) for Funding Opportunity Announcement DE-FOA0003334 titled "Offshore Wind National and Regional Research and Development"

4. **Other:**

ORAU STEM Accelerator: Shaping the Future of Nuclear Academic Programs Workshops The 90-minute workshops will be held on the following dates with registration links provided. They are designed for university department heads and faculty interested in enhancing nuclear science and technology programs through best practices in nuclear career awareness, pipeline management, recruitment, retention, funding opportunities, and resource optimization. Each workshop will have the same content, and a summary report will be issued to all participants following completion of all workshops. Register for a workshop at: Monday, May 13, 10-11:30AM EDT; Wednesday, May 15, 1-2:30PM EDT; Tuesday, May 21, 1-2:30PM EDT; Thursday, May 23, 10-11:30AM EDT.

DOE-NETL Request for Information (RFI) related to Blue Sky Training Program for Grid Scale Energy Storage Systems