February 9, 2022

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: ***None this week***

2. **Selected Funding Opportunities**:

   NSF Strengthening American Infrastructure (SAI) SAI is an NSF Program seeking to stimulate human-centered fundamental and potentially transformative research aimed at strengthening America's infrastructure. SAI focuses on how fundamental knowledge about human reasoning and decision-making, governance, and social and cultural processes enables the building and maintenance of effective infrastructure that improves lives and society and builds on advances in technology and engineering. Successful projects will represent a convergence of expertise in one or more SBE sciences deeply integrated with other disciplines to support substantial and potentially pathbreaking, fundamental research applied to strengthening a specific and focal infrastructure. Deadline: May 5

   NSF Civic Innovation Challenge (CIVIC) CIVIC is a research and action competition that accelerates the transition to practice of foundational research and emerging technologies into communities through civic-engaged research. CIVIC funds projects that pilot state-of-the-art solutions over 12 months, following a six-month planning phase, and have the potential for lasting impact in the partnering community as well as the potential to be scaled and implemented in other communities. Deadline: May 5

   NSF Geophysics (PH) The Geophysics Program supports basic research in the physics of the solid earth to explore its composition, structure, and processes from the Earth's surface to its deepest interior. The program encourages a wide range of laboratory, field, theoretical, and/or computational studies, and encourages new methods, approaches and innovative research directions. Deadline: On-going

   NSF Dear Colleague Letter: High School Student Research Assistantships (MPS-High) Funding to Broaden Participation in the Mathematical and Physical Sciences As part of a supplemental funding request to an existing NSF award, the five Divisions that comprise the Directorate for the Mathematical and Physical Sciences will consider requests that: Foster interest in the pursuit of studies in the Mathematical and Physical Sciences; and Broaden participation of high school students with particular emphasis for those who are in groups that have been traditionally underrepresented and under-served in the science, technology, engineering and mathematics. Deadline: On-going

   NSF Dear Colleague Letter: Supplemental Funding Requests to Conduct US-India Collaborative Research With this Dear Colleague Letter (DCL), the National Science Foundation's (NSF) Directorate for Computer and

Information Science and Engineering (CISE) and Directorate for Engineering (ENG) wish to notify the community of their intention to support supplemental funding requests for active research awards to conduct United States - India (US-India) Collaborative Research. Deadline: April 25

NIH HEAL Initiative: Discovery and Functional Evaluation of Human Pain-associated Genes and Cells (U19) The purpose of this FOA is to support research that uses human tissue or cells to generate comprehensive datasets for the discovery and characterization of functional genetic elements, epigenetic signatures, and molecular/cellular pathways that underlie human pain transduction, transmission, and processing. This FOA will support concerted multidisciplinary team science efforts that apply large-scale high-throughput approaches on tissues involved in human pain processing as part of the NIH HEAL Initiatives Program to Reveal and Evaluate Cells-to-gene Information that Specify Intricacies, Origins, and the Nature of Human Pain (PRECISION Human Pain). Deadline: March 17

NIH HEAL Initiative: Discovery of Biomarkers and Biomarker Signatures to Facilitate Clinical Trials for Pain Therapeutics (UG3/UH3) The purpose of this FOA is to promote the discovery of strong candidate biomarkers or biomarker signatures for pain that can be used to facilitate the testing of non-opioid pain therapeutics in Phase II clinical trials. The biomarkers or biomarker signature will be developed through clinical research specifically focused on the identification of pain biomarkers or biosignatures that predict and/or monitor response to pain therapeutics. Deadline: March 11

NIH Notice of Special Interest (NOSI): Administrative Supplements to Recognize Excellence in Diversity, Equity, Inclusion, and Accessibility (DEIA) Mentorship The participating Institutes and Centers (ICs) are inviting applications to support administrative supplements to existing awards of scientists who are outstanding mentors and who have demonstrated compelling commitments and contributions to enhancing diversity, equity, inclusion, and accessibility (DEIA) in the biomedical sciences. Deadline: April 7

NIH Notice of Special Interest (NOSI): Administrative Supplements to Support Collaborations to Improve the AI/ML-Readiness of NIH-Supported Data This Notice announces the availability of supplements to active grants which are intended to support collaborations that bring together expertise in biomedicine, data management, and artificial intelligence and machine learning (AI/ML) to make NIH-supported data useful and usable for AI/ML analytics. Deadline: March 17

DOD Defense University Research Instrumentation Program (DURIP) This announcement seeks proposals from universities to purchase equipment and
instrumentation in support of research in areas of interest to the DoD. Proposals must address the impact of the equipment or instrumentation on your institution's ability to educate students through research in disciplines important to DoD missions. The program is administered through the ***Army Research Office***, the ***Office of Naval Research***, and ***Air Force Office of Scientific Research***. Each administering agency will make grant awards to fund the purchase of research equipment or instrumentation costing $50,000 or more that cannot typically be purchased within the budgets of single-investigator awards (generally not to exceed $1.5M). Deadline: May 13

DOD-AFOSR Science, Technology, Engineering and Mathematics (STEM) Program The goal of proposed efforts must provide solutions that establish, build, and/or maintain STEM educational pathways and workforce opportunities for diverse U.S. citizens directly relevant to AFOSR science and technology areas. This FOA is specifically seeking STEM education and outreach projects that address scientific and technical areas identified in the following thrust areas: engineering and complex systems, information and networks, physical sciences, and chemistry and biological sciences. Deadline: May 13

DOE-EERE Concentrating Solar Thermal Power Fiscal Year 2022 Research, Development, and Demonstration Program This funding opportunity is designed to help decarbonize the energy sector by developing CSP technologies for carbon-free industrial processes in the United States, and next-generation plant designs that will operate at high efficiency with low-cost thermal storage. Projects supported by this opportunity will focus on lowering the cost of CSP technologies and creating new market opportunities for the industry, with the goal

of enabling substantial deployment of CSP to decarbonize the electricity grid and energy system. Topic areas include: 1) Concentrating Solar Thermal for Industrial Decarbonization; and 2) Concentrating Solar-thermal Particle Technologies for Generation 3 CSP and Beyond (Gen3++). SETO will host an informational webinar on February 24 at 2:00 p.m. ET. Deadlines: March 16 – LOI; May 16 - Application

USDA-NIFA Renewable Resource Extension Act National Focus Fund Projects (RREA-NFF) The RREA-NFF, Assistance Listing 10.515, program goal is to enhance the sustainability of U.S. forest and rangeland resources, and to enable landowners and managers to achieve their desired goals and objectives by making public research available to them. RREA-NFF projects must maximize the capacity, reach, and impact of the Cooperative Extension System – Extension Forestry and Rangeland Programs to ensure appropriate management and conservation of natural resources and to ensure resilience against climate change. Deadline: March 21

FFAR 2022 Seeding Solutions Request for Applications Seeding Solutions encourages the development of unique partnerships that support innovative and transformative research focused on one of our Challenge Areas or AgMission: soil health; sustainable water management; next generation crops; advanced animal systems; urban food systems; health-agriculture nexus; and AgMission. Deadlines: March 9 – Pre-application; July 13 – Full application by invite

Chan Zuckerberg Initiative/National Academies of Sciences, Engineering, and Medicine Science Diversity Leadership Award These awards will recognize the leadership and scientific accomplishments of outstanding early- to mid-career researchers at U.S. universities, medical schools, or nonprofit research institutes who — through their outreach, mentoring, teaching, and leadership — have a record of promoting diversity, equity, and inclusion in their scientific fields. They will have made significant research contributions to the biomedical sciences, show promise for continuing scientific achievement, and demonstrate leadership in efforts to diversify the sciences. The PI must be performing research relevant to the biomedical sciences, hold an M.D., Ph.D., Sc.D., M.D./Ph.D., DDM, DVM or equivalent; lead an independent research lab; and started their lab no earlier than Jan. 1, 2012. *Interested faculty should contact their Purdue for Life representative.* Deadline: May 19

Simons Foundation Autism Research Initiative (SFARI) Human Cognitive and Behavioral Science Grants awarded through this RFA are intended to produce foundational knowledge about the neurobehavioral differences associated with ASD. Many of these projects are expected to inform or relate to the development or refinement of tools needed for translational efforts, such as biomarkers and outcome measures. Special emphasis is placed on objective, quantitative measures that may be used in conjunction with standardized clinical measures and genomic information to better triangulate phenotypic and neurobiological variability within and across individuals with ASD. Two tracks are offered within this RFA solicitation: Explorer and Expansion. Deadline: April 25

3. **Other:**

NSF Frequently Asked Questions (FAQs) for EHR Core Research: Building Capacity in STEM Education Research (ECR: BCSER)

NSF National Medal of Science Call for Nominations Submit nominations by May 20

****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), Kristyn Jewell (kristynj@purdue.edu), or Perry Kirkham (pkirkham@purdue.edu) with any questions or comments related to this e-mail.