January 8, 2025

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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: ***NSF Materials Research Science and Engineering Centers (MRSEC)*** The MRSECs support materials research infrastructure in the United States, promote active collaboration between universities and other sectors, including industry and international organizations, and contribute to the development of a national network of university-based centers in materials research, education, and facilities. A MRSEC may be located at a single institution, or may involve multiple institutions in partnership, and is composed of two to three Interdisciplinary Research Groups (IRGs), each addressing a fundamental materials science topic aligned with the Division of Materials Research (DMR). While historically the MRSEC Program has supported research that is of predominantly experimental nature, the Program continues to strongly encourage submission of proposals that are *purely of theoretical and/or computational nature*. The following areas are of particular interest: Advancing Materials for Semiconductors and Microelectronics; Materials for Biotechnology; Materials for Biomanufacturing; Architected Materials Across Scales; Materials Far-From-Equilibrium; Structural Materials under Extreme Conditions; and Alternative Approaches to Development and Processing of Clean, Sustainable Materials. *A MRSEC proposal must contain a minimum of 2 IRGs and a maximum of 3 IRGs. The IRGs in a Center may be thematically related, or they may address different aspects of materials research typically supported by DMR. Integration of multiple, differing IRGs into one MRSEC allows efficient utilization of resources, including common infrastructure, and better coordination of education and other activities of the Center.* Only ***one*** submission is allowed as lead. **Internal submissions may consist of a single IRG or full MRSEC proposal consisting of two-three IRGs with an overall management structure.**

   Internal deadline: February 10 – Pre-proposal due in InfoReady by 11:59PM

   Sponsor deadlines: June 23 – Preliminary proposal; November 24 – Full proposal by invite

   Limited Submission: ***Foundation for Food & Agriculture Research (FFAR) New Innovator in Food & Agriculture Research Award*** The New Innovator in Food & Agriculture Research Award provides early-career scientists the investment needed to propel them into successful research careers. Eligible faculty should be in a tenure-track position no longer than three years and within eight years of receiving their Ph.D. Eligible candidates must also conduct research that aligns with FFAR's Research Priority Areas: Cultivating Thriving Production Systems; Sustaining Vibrant Agroecosystems; Bolstering Healthy Food Systems; and Strengthening the Scientific Workforce. Individuals with significant research experience prior to obtaining their faculty position are not eligible for this award. For the purpose of this funding opportunity, significant research experience is defined as a nominee that has been awarded a substantial research grant (three to five years of support) or has received project funding totaling over $1 million within the time of their tenure position, or has been awarded similar career development awards with similar budgetary scopes. Only ***one*** nomination is allowed per institution.

   Internal deadline: January 27

   Sponsor deadline: February 19 – Nomination; April 2 – Full proposal by invite

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**:

Purdue Women's Global Health Institute: Request for Women's Health Research Pilot Grant Proposals The Purdue Women's Global Health Institute (WGHI) has partnered with the Indiana Clinical and Translational Sciences Institute (CTSI), Purdue Institute for Integrative Neuroscience, Purdue Institute for Cancer Research, and Purdue College of Health and Human Sciences to solicit proposals of outstanding scientific merit addressing research, including translational, on women's health issues. Proposals focusing on prevention, early detection, health disparities, rural women's health, and sex and gender differences are encouraged. Additionally, we are interested in supporting research to address the White House Initiative on Women's Health Research, including diseases and conditions associated with women's midlife and later years. Cross-college collaborations within Purdue are also encouraged. Deadline: February 17

NSF Findable Accessible Interoperable Reusable Open Science (FAIROS) The FAIROS Program seeks to support a broad range of transformative open science activities including but not limited to i.) Research, education, and socio-technical cyberinfrastructure development capacities that advance sustainable multi-disciplinary findable, accessible, interoperable, reusable (FAIR) research data management (RDM) and open science capabilities, ii.) Piloting new models of scientific communication and publication that improve efficiency and accessibility, iii.) Developing FAIROS data portals, research data commons, RDM as a national service, and iv.) Lowering barriers to accessing, curating, integrating, linking, managing, sharing, and storing data across many disciplinary domains, irrespective of data size. FAIROS proposals must select one of two tracks to focus on, either: 1) Disciplinary Improvements to targeted scientific communities, or 2) Cross-Cutting Improvements that apply to many or most scientific disciplines. Deadline: April 9

NSF Cybersecurity Innovation for Cyberinfrastructure (CICI) The objective of the Cybersecurity Innovation for Cyberinfrastructure (CICI) program is to advance scientific discovery and innovation by enhancing the security and privacy of cyberinfrastructure. CICI supports efforts to develop, deploy and integrate cybersecurity that will benefit the broader scientific community by securing science data, computation, collaborations workflows, and infrastructure. CICI seeks proposals in four program areas: Usable and Collaborative Security for Science (UCSS); Reference Scientific Security Datasets (RSSD); Transition to Cyberinfrastructure Resilience (TCR); and Integrity, Provenance, and Authenticity for Artificial Intelligence Ready Data (IPAAI). Deadline: April 2

NSF Dear Colleague Letter: Proposals for the Future of Designing Accountable Software Systems (DASS) The goal of this DCL is to advance understanding of (1) the public needs/demands to which software must be accountable, including their cognitive/psychological underpinnings; (2) the legal, political, and governance frameworks needed to ensure such accountability; and (3) the specific software designs and systems that will enable that accountability. To accomplish this goal, the Future of DASS DCL aims to foster collaborations

between CISE researchers and SBE researchers. Regarding the latter, we readily envision contributions from scholars who study law/justice, publicly accountable institutions/behavior, social psychology, and/or the science of learning, but we welcome proposals that include contributions from other social and behavioral scientists as well. Deadline: February 3 – Concept outline; April 4 – Proposal

NSF Collaborations in Artificial Intelligence and Geosciences (CAIG) The Collaborations in Artificial Intelligence and Geosciences (CAIG) program seeks to advance the development and adoption of innovative artificial intelligence (AI) methods to increase scientific understanding of the Earth system. The program supports projects that advance AI techniques and/or innovative uses of sophisticated or novel AI methods to enable significant breakthroughs in addressing geoscience research question(s) by building partnerships between experts in AI and Geosciences. Deadline: April 2

NIH In Vivo High-Resolution Imaging for Inner Ear Visualization (R01) This funding opportunity aims to support the development of *in vivo* high-resolution structural and functional imaging technologies for the living human inner ear. Proposed projects should focus on improving the resolution of current imaging techniques or developing new imaging techniques that can visualize inner ear structures *in vivo* with significantly greater detail and accuracy than currently possible. Both structural and functional aspects, including visualizing dynamic elements are important to the development of new and improved techniques. Projects may also focus on developing new imaging probes or contrast agents that can enhance visualization of the inner ear structures. Deadline: June 3

NIH Small Grants for New Investigators to Broaden Participation in Health-Related Research (R21) This funding opportunity will support small research projects that can be carried out in a short period of time with limited resources and seeks to facilitate the transition of new and early stage investigators to research independence. In addition, this funding opportunity supports different types of projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. Deadline: February 16

NIH Joint NINDS/NIMH Exploratory Neuroscience Research Grant (R21) The Joint NINDS/NIMH Exploratory Neuroscience Research Grant program supports exploratory and innovative research projects, which fall within the missions of the NINDS and NIMH. Awards will provide support for the early and conceptual stages of projects. These studies often assess the feasibility of a novel avenue of investigation and involve considerable risk, but have the potential to bring about breakthroughs in the understanding of important areas of neuroscience, or to the development of novel techniques, agents, methodologies, or models, of high value to the neuroscience community. No clinical trials will be accepted with this NOFO. Deadline: February 16

NIH Multidisciplinary Studies of HIV/AIDS and Aging This NOFO invites applications at the intersection of HIV and aging by proposing research that aims to meet the following objectives: 1) Improve the understanding of biological, clinical, and socio-behavioral aspects of aging through the lens of HIV infection and its treatment; and 2) Improve approaches for testing, preventing, and treating HIV infection, and managing HIV-related comorbidities, co-infections, and complications in different populations and cultural settings by applying current aging science approaches.

- ***R01*** Deadline: May 7
- ***R21*** Deadline: May 7

NIH Trailblazer Award for New and Early Stage Investigators (R21) This Trailblazer Award is an opportunity for NIH-defined New and Early Stage Investigators to pursue research programs that integrate engineering and the physical sciences with the life and/or biomedical sciences. A Trailblazer project may be exploratory, developmental, proof of concept, or high risk-high impact, and may be technology design-directed, discovery-driven, or hypothesis-driven. Importantly, applicants must propose research approaches for which there are minimal or no preliminary data. Deadline: February 16

NIH NEI Translational Research Program for Therapeutics (R61/R33) The purpose of this NOFO is the rapid and efficient translation of innovative laboratory research findings into therapeutics for use by clinicians to treat visual system diseases or disorders. Multidisciplinary teams of scientists and clinicians must focus on generating preclinical data that will lead to the development of biological, pharmacological, medical device and/or combination product interventions. The ultimate goal of this program is to make new technological, biological and pharmacological resources available to clinicians and their patients. Deadline: February 16

DOD-ERDC Broad Agency Announcement The ERDC is responsible for conducting research in the broad fields of hydraulics, dredging, coastal engineering, instrumentation, oceanography, remote sensing, geotechnical engineering, earthquake engineering, soil effects, vehicle mobility, self-contained munitions, military engineering, geophysics, pavements, protective structures, aquatic plants, water quality, dredged material, treatment of hazardous waste, wetlands, physical/mechanical/ chemical properties of snow and other frozen precipitation, infrastructure and environmental issues for installations, computer science, telecommunications management, energy, facilities maintenance, materials and structures, engineering processes, environmental processes, land and heritage conservation, and ecological processes. This Broad Agency Announcement (BAA) solicits proposals for basic and applied research and that part of development not related to the development of a specific system or hardware procurement. To be eligible for consideration and possible contract award, the technology or methodology shall be either basic research, applied research, advanced technology development not for a specific system/hardware, or demonstration and validation. Deadline: On-going

USDA-NIFA Agriculture and Food Research Initiative (AFRI) Foundational and Applied Science Program The AFRI Foundational and Applied Science Program supports grants in six AFRI priority areas to advance knowledge in both fundamental and applied sciences important to agriculture. The six priority areas are: Plant Health and Production and Plant Products; Animal Health and Production and Animal Products; Food Safety, Nutrition, and Health; Bioenergy, Natural Resources, and Environment; Agriculture Systems and Technology; and Agriculture Economics and Rural Communities. In FY2025, this RFA solicits Standard Grants, Conference Grants, and Food and Agricultural Science Enhancement (FASE) Grants, whereas project types solicited in this RFA are Research, Extension, Education and Integrated Research, Education and/or Extension projects. Grant types and project types solicited vary by program area priority and not all grant types are solicited within each program area priority. Deadline: Varies

USDA-NIFA Crop Protection and Pest Management Competitive Grants Program (CPPM) The CPPM program supports projects that will ensure food security and respond effectively to other major societal pest management challenges with comprehensive IPM approaches that are economically viable, ecologically prudent, and safe for human health. The CPPM program addresses IPM challenges for emerging issues and existing priority pest concerns that can be addressed more effectively with new and emerging technologies. The outcomes of the CPPM program are effective, affordable, and environmentally sound IPM practices and strategies needed to maintain agricultural productivity and healthy communities. Deadline: February 15

DOS-ISN Opportunities:

- ***Women in CHIPS Initiative*** Deadline: March 31
- ***Building a Community of Practice for Women in Strategic Trade*** Deadline: March 31
- ***Establish a Legal/Regulatory Framework for Strategic Trade Controls in Vietnam*** Deadline: March 31
- ***Moldovan Institutions Capacity Development on Sanctions Enforcement*** Deadline: March 31
- ***Diversion Risk Mitigation Workshop in Türkiye*** Deadline: March 31
- ***Albania Sanction Platform Development*** Deadline: March 31
- ***Establish a Legal Framework for Strategic Trade Controls in Vietnam*** Deadline: March 31
- ***International Border Guard Training for Iraq and Jordan (2025-2027)*** Deadline: March 31

Simons Foundation Autism Rat Models Consortium 2.0 RFA Grants awarded through this request for applications (RFA) are intended to recharge and extend a consortium of researchers using rats as an experimental system to advance our understanding of the behavioral and circuit neuroscience mechanisms underlying autism and related neurodevelopmental disorders (NDD). SFARI is launching a new RFA to build upon

the successes of the initial phase of ARC as well as to integrate new ideas and new researchers into the existing collaborative framework. As in the original RFA, awardees of this RFA will work as a consortium to use these rat models to further our understanding of the behaviors and underlying neural circuits relevant to autism and related NDD. An informational Zoom session will be held on January 23. Deadline: March 6

3. **Other:**

NSF Frequently Asked Questions (FAQs) for the for the Quantum Leap Challenge Institutes Program

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