August 14, 2024

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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 Science and Technology Centers: Integrative Partnerships*** The Science and Technology Centers (STC): Integrative Partnerships program supports exceptionally innovative, complex research and education projects that require large-scale, long-term awards. STCs focus on creating new scientific paradigms, establishing entirely new scientific disciplines, and developing transformative technologies which have the potential for broad scientific or societal impact. STCs conduct world-class research through partnerships among institutions of higher education, national laboratories, industrial organizations, other public or private entities**,** and via international collaborations, as appropriate. They provide a means to undertake potentially groundbreaking investigations at the interfaces of disciplines and/or highly innovative approaches within disciplines. STCs may involve any area of science and engineering that NSF supports. Only ***three*** submissions are allowed per institution.

   Internal deadline: Preproposal due in InfoReady by September 9 (template)

   Sponsor deadlines: November 20 – Preliminary proposal; June 2 – Full proposal

   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 Regional Resilience Innovation Incubator (R2I2) R2I2 will support community- engaged team science to co-design high-impact solutions to climate-related societal challenges that leverage recent advances in fundamental climate change and Earth system science research. Each R2I2 project will address specific regional climate challenges and will develop and demonstrate solutions to those challenges that can be effectively applied in real- world settings. Investment in R2I2 will leverage past federal investments in addressing climate change and will provide a bridge connecting advancements in basic science with local knowledge, informed decision making, and technological innovations for societal applications. R2I2 will be implemented in two phases, concept creation and implementation. This solicitation, focused on Phase-1, will fund a series of pilot projects focusing on project concept creation and refinement for solutions specific to a U.S. climate region. Targeted areas for establishing R2I2 incubators will be based on ten climate regions defined by the Fifth National Climate Assessment: Northeast, Southeast, U.S. Caribbean, Midwest, Northern Great Plains, Southern Great Plains, Northwest, Southwest, Alaska, and Hawaii & U.S. Affiliated Pacific Islands. Deadlines: December 16 – LOI; January 16 – Full proposal

NSF Postdoctoral Research Fellowships in Biology The Directorate for Biological Sciences (BIO) awards Postdoctoral Research Fellowships in Biology (PRFB) to recent recipients of the doctoral degree for research and training in selected areas supported by BIO and with special goals for human resource development in biology. For proposals under this solicitation, these areas are (1) Broadening Participation of Groups Underrepresented in Biology, (2) Integrative Research Investigating the Rules of Life Governing Interactions Between Genomes, Environment and Phenotypes, and (3) Plant Genome Postdoctoral Research Fellowships. The fellowships encourage independence at an early stage of the research career to permit Fellows to pursue their research and training goals in the most appropriate research locations in collaboration with sponsoring scientists. It is expected that the sponsoring scientists will actively mentor the Fellows and will greatly benefit from collaborating with these talented early-career scientists and incorporating them into their research groups. Deadline: November 7

NSF Dear Colleague Letter: Research Coordination Network for a University-Community Climate Action Network (RCN-UCCAN) The RCN-UCCAN should aim to develop a national strategy connecting our colleges and universities with their communities to share knowledge and resources across a network that spans a range of institution types. Of particular interest is ensuring that everyone, regardless of location or affiliation, has the opportunity to address the goals outlined in this DCL. Researchers and practitioners across their communities are especially encouraged to communicate, collaborate and exchange information for action on climate mitigation, resilience and adaption through the RCN, including with international partners. NSF and DOE will invest in one RCN proposal to develop new connections and collaborations to accelerate and elevate climate action through university-community partnerships and identify untapped resources to ensure environmental justice for unserved and under-served communities. This RCN-UCCAN will provide a framework for engaging students and participating local communities to co-create and scale successful proof-of-concept projects. Deadline: November 15

NIH Investigating Mitochondrial-Nuclear Communication in AD/ADRD (R01) The goal of this NOFO is to support research to investigate mitochondrial-nuclear communication in the context of neurobiology and Alzheimer's disease and AD-related dementias (AD/ADRD). This research will transform our understanding of how mitochondrially derived metabolites can impact nuclear gene expression and how changes to nuclear function can impact mitochondrial activity. This has the potential to serve as the foundation for the development of future AD/ADRD therapies that specifically target mitochondrial function as well as shed light on the role that mitochondria play in aging and neurodegeneration. Deadline: November 7

NIH Optimization of Genome Editing Therapeutics for Alzheimer's Disease-Related Dementias (ADRD) (U01) This NOFO supports the optimization of promising genome editing-based therapeutic leads for Alzheimer's Disease-Related Dementias (ADRD), by advancing therapeutic candidates towards IND-enabling studies. It supports the development of therapeutic lead(s) that show potential as genome editing therapeutics, as evidenced by convincing proof-of-concept studies in appropriate models. At the end of the funding period,

successful projects will have delivered an optimized therapeutic candidate, ready for initiating IND-enabling studies. Deadline: November 19

NIH NIDA Animal Genomics Program (U01) The purpose of the National Institute on Drug Abuse (NIDA) Animal Genetics Program is to identify genetic, genomic, and molecular (epi)genetic variants that underlie neural and behavioral processes and phenotypes relevant to SUD risk, the SUD trajectory and SUD comorbidities. This opportunity supports research that links genetic, genomic and molecular mechanisms to neural circuit function and behavior. Applications may seek to identify any type of genomic and/or epigenomic variants that contribute to the genetic architecture of addiction, including single nucleotide variants (SNVs), indels, large and small structural variants, and all types of mobile DNA. NIDA encourages applications that take genomics, multi-omics, data-based, and/or artificial intelligence/machine learning approaches that integrate multi-level 'omics data, delineate gene networks, and/or uncover the function of known or newly discovered genetic or epigenetic variants. Deadline: February 11

DOE-NETL Fiscal Year 2024 Vehicle Technologies Office Batteries Funding Opportunity Announcement This Funding Opportunity Announcement will advance research, development, demonstration, and deployment (RDD&D), in several areas critical to achieving net-zero greenhouse gas (GHG) emissions by 2050, including: development of innovative battery chemistries and component materials, reduction of cascading battery fires, and battery electrode, cell, and pack manufacturing cost reduction. Deadline: September 9 – Concept paper; October 30 – Full application

DOD-ARL Collective Judgment Formation-Collaborative Research Alliance The Collective Judgment Formation (CJF) Collaborative Research Alliance (CRA) program is focused on basic research to create and expand theoretical and scientific understanding of human-agent interactions in AI-supported team decision making. The representative domain for the program is intelligence activities. Work within this program will require the problem space to be addressed from multiple disciplinary perspectives working in concert to discover novel knowledge and to advance our scientific foundations of (a) humans working with each other and with novel forms of software agents and (b) teams of intelligence analysts responding to novel methods that create verbose structured and unstructured content. Through this CRA, ARL seeks to partner with performers to advance the scientific state-of-the-art in human-agent systems for intelligence activities. Deadlines: September 25 – White paper; November 21 - Proposal

DOD-NRL Postdoctoral Fellowship Program (PFP) The objective of NRL's PFP is to provide postdoctoral scientists and engineers of unusual promise and ability opportunities to engage in research on problems, largely of their own choice, that are compatible with the interests of the Government and will potentially contribute to the general effort of NRL. NRL's PFP will further science and technology through fundamental research, with this research having potentially both civilian and military applications. Deadline: October 9

NASA-ROSES Heliophysics Citizen Science Investigations This Heliophysics Citizen Science Investigations (H-CSI) call supports medium-scale citizen science projects to expand participation of citizen scientists in NASA heliophysics research, bringing unprecedented statistical power and new insights not realistically achievable by other means. This call solicits investigations that will develop and implement capabilities to augment and enhance NASA scientific data, knowledge, and capacity through voluntary observations, interpretations, or other direct participation by members of the general public centered on heliophysics science. Deadlines: November 14 – Step 1; January 17 – Step 2.

NASA-ROSES Weather and Atmospheric Dynamics This ROSES element solicits proposals for participation in the North American Upstream Feature-Resolving and Tropopause Uncertainty Reconnaissance Experiment (NURTURE). Two types of campaign execution proposals are solicited as part of this element. The first type of proposal solicited under this element targets support for flight planning and campaign execution. These proposals may include requests for meteorological support as well as forecast modeling for the parameters and scientific objectives listed in the white paper. The second type of proposal solicited under this element are those

that seek funding to perform initial data exploitation in addition to campaign execution. Deadlines: October 2 – NOI; November 8 - Proposal

DOC-NOAA Opportunities:

- ***DOC-NOAA Climate Program Office FY2025 Modeling, Analysis, Predictions, and Projections (MAPP) Program: Climate Change Projections to 2050: Applied Information for Industrial Applications*** Deadlines: October 18 – LOI; January 10 – Full application
- ***DOC-NOAA Understanding and Assessing drought in a Changing Climate (NIDIS)*** Deadlines: September 18 – LOI; December 9 – Full application
- ***DOC-NOAA Leveraging Uncrewed Systems Data for Climate Applications*** Deadlines: September 18 – LOI; December 9 – Full application
- ***DOC-NOAA Climate Program Office FY2025 Climate Variability and Predictability (CVP) Program: TEPEX-E*** Deadlines: October 1 – LOI; January 17 – Full application
- ***DOC-NOAA Climate Program Office FY2025 Climate Variability and Predictability (CVP) Program: TEPEX-C*** Deadlines: October 1 – LOI; January 17 – Full application
- ***DOC-NOAA Climate Program Office FY2025 Modeling, Analysis, Predictions, and Projections (MAPP) Program: Early Career Award for Exceptional Research in Earth System Model Development and Application*** Deadlines: September 18 – LOI; December 9 – Full application
- ***DOC-NOAA S&T FY 2024 – 2026 - Broad Agency Announcement (BAA) Announcement Type: Initial*** Deadline: September 30
- ***DOC-NOAA FY 2024 – 2026 - Broad Agency Announcement (BAA) for the Office of Education*** Deadline: September 30
- ***DOC-NOAA Integrating Observations and Modeling in Support of Process Understanding Relevant to Solar Radiation Modification Research*** Deadlines: September 18 – LOI; December 9 – Full application
- ***DOC-NOAA Climate Program Office FY2025 Atmospheric Chemistry, Carbon Cycle, and Climate (AC4) Program*** Deadlines: September 18 – LOI; December 9 – Full application

USDA-NIFA Air Force 4-H Military Partnership Outreach Support Grant Program The purpose and priorities of the Air Force 4-H Military Partnership Outreach Support grant is to award competitive grants to eligible entities: to provide outreach and support to 4-H professionals and volunteers to keep them informed, mission connected, and prepared to deliver 4-H programming to Air Force-connected youth living on Air and Space Force installations and in civilian communities within the continental United States (CONUS) and outside the continental United States (OCONUS); and to offer 4-H programming opportunities to Air and Space Force-connected youth (enrolled in kindergarten through 18 years of age) that build resiliency, provide a sense of belonging, encourage positive choices, and foster healthy living on and around Air and Space Force installations. Deadline: August 30

USDA-APHIS National Animal Disease Preparedness and Response Program Fiscal Year 2025 The U.S. Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS), Veterinary Services (VS) is announcing the availability of up to $16,500,000 in funds in the National Animal Disease Preparedness and Response Program (NADPRP) to support projects in the core topics listed below.
1. Develop, enhance, and exercise State and Tribal animal disease outbreak emergency response plans.
2. Support livestock and poultry biosecurity measures and programs.
3. Enhance capability and capacity for depopulation, carcass disposal, and decontamination in a disease outbreak.
4. Support animal movement decisions in a disease outbreak.
5. Enhance animal disease traceability during a disease outbreak.
6. Develop and deliver training & exercises to improve animal disease outbreak response capabilities.
7. Support outreach & education on animal disease prevention, preparedness, and response.
Deadline: October 18

3. **Anticipated Funding Opportunities**

DOE RFI: RFI Microelectronics Energy Efficiency Scaling for 2 Decades (EES2) R&D Roadmap — Public Feedback

HHS-CDC Reducing the burden of parasitic infections in the United States through evidence-based prevention and control activities

HHS-CDC Strengthening Vaccine-Preventable Disease Prevention and Response