

## UNO FOCUS:

Louisiana Materials Design Alliance (LAMDA) Seed Funding Track 2: Industrial Collaborations  
LA EPSCoR

The Louisiana Materials Design Alliance (LAMDA), an NSF EPSCoR RII Track-1 project, solicits proposals for LAMDA Seed Funding Track 2: Industrial Collaborations to support research projects relevant to LAMDA's research themes. LAMDA's research program represents a convergence of machine learning (ML), experimental and computational materials science and engineering (MS&E), and additive manufacturing (AM). The vision of LAMDA is to propel the State to a nationally competitive position in the field of ML-guided materials design for AM.

Deadline for proposals is Monday, December 12, 2022. Please follow the link to our online submission system, <https://laepscor.piestar-rfx.com/> and view the opportunities listed there. The RFPs will also be available on our website, <https://web.laregents.org/>.

LINKS: [LA EPSCoR](#)

## ARTS, HUMANITIES, and INTERNATIONAL

U.S. Mission New Zealand PDS Annual Program Statement  
Department of State (State)

Notice seeking statements of interest to strengthen U.S.-New Zealand cooperation and coordination on global issues of shared interest (e.g., combatting climate change, supporting Indo-Pacific security, promoting diversity and inclusion); promote the mutual benefits of tech and innovation; promote stronger connections between the people of the United States, New Zealand, the Cooks Islands, Niue, and the Pacific Island region; and deepen U.S. relationships with Indigenous and Pacific communities, in Aotearoa New Zealand, Niue and the Cook Islands, based on our shared values and heritage.

Applications are due on a rolling basis until May 1, 2023. The maximum for each award is \$100,000.

LINKS: [Grants.gov](#)

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Addressing the Impacts of Proliferator State Advanced Conventional Weapons  
Department of State (State), Bureau of International Security-Nonproliferation (ISN)

Notice seeking proposals to counter proliferator state's advanced conventional weapons (ACW) procurement and proliferation networks. The Kremlin's recent announcement of a partial mobilization along with its need to resupply existing occupying forces in Ukraine is expected to increase Russia's demand for additional weapon systems and critical defense technologies, either domestically produced or imported from abroad.

Applications are due January 31, 2023. Approximately \$4.9 million is available to fund 20 to 50 awards.

LINKS: [Grants.gov](#)

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Advancing Nuclear Safety, Security, and Nonproliferation through the FIRST Program  
Department of State (State), Bureau of International Security-Nonproliferation (ISN)

Notice seeking proposals to prevent terrorists from diverting or acquiring nuclear material, technology, or expertise that could be used to attack the United States and our allies. Foundational Infrastructure for Responsible Use of Small Modular Reactor Technology (FIRST) provides technical capacity-building support to potential nuclear energy newcomer countries and current nuclear energy countries that are

considering small modular reactors (SMRs) and other advanced reactor designs to meet their clean energy needs, consistent with the highest international standards of nuclear security, nonproliferation, and safety.

Applications are due January 31, 2023. Approximately \$4.18 million is available to fund 30 awards.

LINKS: [Grants.gov](https://www.grants.gov)

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Chemical Security Program  
Department of State (State), Bureau of International Security-Nonproliferation (ISN)

Notice seeking proposals to strengthen their ability to prevent, detect, mitigate, and respond to chemical attacks, the malign proliferation and use of weaponizable chemicals, and advances in vertical chemical weapons (CW) proliferation by states in violation of the Chemical Weapons Convention (CWC) as the program's top priority, as well as chemical attacks by non-state actors as an area of decreased emphasis in FY23.

Applications are due January 31, 2023. Approximately \$5.85 million is available to fund 20 to 50 awards.

LINKS: [Grants.gov](https://www.grants.gov)

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Countering North Korean and Iranian WMD and Missile Proliferation  
Department of State (State), Bureau of International Security-Nonproliferation (ISN)

Notice seeking proposals for projects that will advance the mission of the office's UN Sanctions Compliance program.

Applications are due January 31, 2023. Approximately \$8.35 million is available to fund 20 to 50 awards.

LINKS: [Grants.gov](https://www.grants.gov)

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Countering WMD Threats in Iraq  
Department of State (State), Bureau of International Security-Nonproliferation (ISN)

Notice seeking proposals to secure chemical, biological, radiological (CBR) and explosive materials, dual-use equipment, technologies, expertise, and infrastructure to prevent their misuse by terrorists and other nefarious actors in Iraq for use in WMD attacks against the United States, U.S. allies, and U.S. interests abroad.

Applications are due January 31, 2023. Approximately \$2.92 million is available.

LINKS: [Grants.gov](https://www.grants.gov)

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CTR Global Biosecurity Engagement Activities  
Department of State (State), Bureau of International Security-Nonproliferation (ISN)

Notice seeking proposals to mitigate global biological threats by minimizing the access of proliferator states and non-state actors to biological expertise, materials (e.g., high consequence pathogens (HCP), pathogens and toxins included on control lists such as the U.S. Select Agent List, synthetic biological materials), and dual-use equipment that could be misused to conduct biological weapons (BW) attacks against the United States, U.S. allies, or U.S. interests abroad.

Applications are due January 31, 2023. Approximately \$10.56 million is available.

LINKS: [Grants.gov](https://www.grants.gov)

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FY2023 Development Innovation Ventures Annual Program Statement (APS)  
United States Agency for International Development (USAID)

Notice seeking proposals for innovations that address international development challenges and improve the lives of people living in poverty in developing countries around the world. DIV provides tiered funding to pilot, test, and transition to scale (i.e., grow to reach the highest number of beneficiaries possible) those innovations that demonstrate evidence of impact, cost-effectiveness, and the potential to scale.

Proposals are due any time until October 31, 2023.

LINKS: [Grants.gov](https://www.grants.gov)

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Nonproliferation Scientist Engagement Program  
Department of State (State), Bureau of International Security-Nonproliferation (ISN)

Notice seeking proposals to provide near-term capacity-building, virtual fellowships, and technology matchmaking support to Ukrainian civilian scientists with dual-use relevant expertise who are geographically displaced or otherwise rendered financially vulnerable to proliferator state exploitation due to Russia's further invasion of Ukraine.

Proposals are due January 31, 2023. Approximately \$835,000 is available to fund four to five awards.

LINKS: [Grants.gov](https://www.grants.gov)

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Supporting Partner Capabilities to Address Russian Malign Influence  
Department of State (State), Bureau of International Security-Nonproliferation (ISN)

Notice seeking proposals to raise partner capacity to identify and respond to Russia's malign activities that undermine nonproliferation norms and regimes.

Applications are due January 31, 2023. Approximately \$3.09 million is available to fund 20 to 50 awards.

LINKS: [Grants.gov](https://www.grants.gov)

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Supporting Partner Implementation of Russia Sanctions  
Department of State (State), Bureau of International Security-Nonproliferation (ISN)

Notice seeking proposals to build foreign partner capacity to support the implementation of bilateral sanctions imposed against Russia for its unprovoked aggression in Ukraine. These sanctions not only impose costs upon Russia and Belarus but are a critical tool in preserving international unity and for partners to show support for Ukraine.

Applications are due January 31, 2023. Approximately \$5.97 million is available.

LINKS: [Grants.gov](https://www.grants.gov)

## HEALTH and MENTAL HEALTH

Development of Resources and Technologies for Enhancing Rigor, Reproducibility, and Translatability of Animal Models in Biomedical Research  
National Institutes of Health (NIH), Department of Health and Human Services (HHS)

Notice seeking applications aimed at developing and implementing broadly applicable technologies, tools, and resources for validating animal models and enhancing rigor, reproducibility, and translatability of animal

research. Research projects submitted under this Funding Opportunity Announcement (FOA) should be hypothesis driven with strong preliminary data.

R01 Applications are due December 22, 2022. R24 applications are due December 22, 2022 and February 24, 2023.

LINKS: [Grants.gov \(R01\)](#), [Grants.gov \(R24 Clinical Trials Not Allowed\)](#), [Solicitation](#)

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Early Stage Investigator HIV-AIDS Research Using Nonhuman Primate (NHP) Models (R21 Clinical Trial Not Allowed)

National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute of Mental Health (NIMH)

Notice seeking applications to support preclinical HIV/AIDS research using NHP models performed by Early Stage Investigators (ESIs) who are within 10 years of their terminal degree or completion of their residency training but who have at least two years of postdoctoral experience. The goal of this support is to help advance HIV/AIDS researchers using NHP models in preclinical research by providing a degree of independence for these ESIs to develop new research directions and to position these researchers to be competitive for new research funding (e.g., R01).

Applications are due annually on January 7, May 7, and September 7. Program expires September 8, 2025.

LINKS: [Grants.gov](#), [Solicitation](#)

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HIV-AIDS Scholars Using Nonhuman Primate (NHP) Models Program (K01 Independent Clinical Trial Not Allowed)

National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute of Allergy and Infectious Diseases (NIAID); National Institute of Mental Health (NIMH)

Notice seeking applications to provide salary and research support to investigators who are within ten years of completing their terminal professional degree or residency training. Research and mentorship must be in the field of HIV/AIDS translational studies, using nonhuman primates (NHPs) as preclinical models.

Applications are due annually on January 7, May 7, and September 7. Program expires September 8, 2025.

LINKS: [Grants.gov](#), [Solicitation](#)

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Birth Defects Study to Evaluate Pregnancy exposureS (BD-STEPS)

Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS)

Notice seeking proposals to identify novel epidemiologic and genetic risk factors for major, structural birth defects and for stillbirths, and to provide research findings that are intended to be translated into public health prevention messages, as warranted.

Applications are due January 17, 2023. Multiple awards with a ceiling of \$800,000 are anticipated.

LINKS: [Grants.gov](#)

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Functional Validation and or Characterization of Genes or Variants Implicated in Substance Use Disorders (R21 R33 Clinical Trial Not Allowed)

National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute on Drug Abuse (NIDA)

Notice seeking proposals for projects which exploit genome or epigenome editing to functionally validate and characterize genes or variants involved in substance use disorder-relevant phenotypes.

Applications are due March 2, 2023. Multiple awards with a per-year ceiling of \$125,000 are anticipated.

LINKS: [Grants.gov](#), [Solicitation](#)

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Occupational Safety and Health Education and Research Centers (T42)  
Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS)

Notice seeking applications for Education and Research Centers (ERCs) that are focused on occupational safety and health training. NIOSH is mandated to provide an adequate supply of qualified personnel to carry out the purposes of the Occupational Safety and Health Act, and the ERCs are one of the primary means for meeting this mandate.

Applications are due January 9, 2023; October 24, 2023; October 22, 2024; October 21, 2025; and October 26, 2027. 18 awards are anticipated.

Limited Submission: Only one application per institution is allowed.

LINKS: [Grants.gov](#), [Solicitation](#)

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Precompetitive Collaboration on Liquid Biopsy for Early Cancer Assessment: Liquid Biopsy Research Laboratories (U01 Clinical Trial Not Allowed)  
National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Cancer Institute (NCI)

Notice seeking applications to develop and validate liquid biopsy technologies for early-cancer detection, risk assessment, and/or for distinguishing cancer from benign disease or aggressive from indolent cancers. The LBRLs will conduct research on the development of liquid biopsy technologies, assays and/or methods for the capture and analysis of tumor associated cells, DNA, RNA, or exosomes in body fluids of individuals with early-stage cancer or at high risk of developing the disease.

Applications are due January 10, 2023. Approximately \$6 million per year is available to fund six awards.

LINKS: [Grants.gov](#), [Solicitation](#)

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Meeting of the Advisory Committee on Infant and Maternal Mortality  
Health Resources and Services Administration (HRSA), Department of Health and Human Services (HHS)

Notice announcing a meeting of the Advisory Committee on Infant and Maternal Mortality. The purpose of the meeting is to provide advice on how to coordinate federal, state, local, tribal, and territorial governmental efforts designed to improve infant mortality, related adverse birth outcomes, maternal health, as well as influence similar efforts in the private and voluntary sectors.

The meeting will be held December 7, 2022, from 11 a.m. to 6 p.m. ET via webinar.

LINKS: [Federal Register](#)

## SCIENCE, TECHNOLOGY, ENGINEERING, and MATHEMATICS

3D Elevation Program (3DEP)  
Department of the Interior (Interior)

Notice seeking applications to complete acquisition of nationwide lidar (IfSAR in AK) to provide the first-ever national baseline of consistent high-resolution topographic elevation data – both bare earth and 3D point clouds.

Applications are due November 18, 2022. Multiple awards are anticipated.

LINKS: [Grants.gov](https://www.grants.gov)

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Atmospheric System Research (ASR)  
Department of Energy (Energy), Office of Science (SC)

Notice seeking applications to quantify the interactions among aerosols, clouds, precipitation, and radiation to improve understanding of key cloud, aerosol, precipitation, and radiation processes that affect the Earth's radiative balance and hydrological cycle, especially processes that limit the predictive ability of regional and global models.

Required pre-applications are due December 8, 2022. Applications are due February 23, 2023. Approximately \$15 million is available to fund 20 to 25 awards.

LINKS: [Grants.gov](https://www.grants.gov)

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Biology Integration Institutes  
National Science Foundation (NSF)

Notice seeking proposals to bring researchers together around the common goal of understanding how the processes that sustain life and enable biological innovation operate and interact within and across different scales of organization, from molecules to cells, tissues to organisms, species, ecosystems, biomes and the entire Earth. The Biology Integration Institutes (BII) program supports collaborative teams of researchers investigating questions that span multiple disciplines within and beyond biology.

Proposals are due February 21, 2023. Approximately \$10 million is available to fund four to five awards.

LINKS: [Grants.gov](https://www.grants.gov), [Solicitation](#)

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Using the Rules of Life to Address Societal Challenges  
National Science Foundation (NSF)

Notice seeking proposals to support use-inspired research that builds on knowledge from previous investments in the NSF "Big Ideas", including in the Understanding the Rules of Life program. The Big Ideas were designed to position the Nation at the cutting edge of global science and engineering by bringing together diverse disciplinary perspectives to support convergent research.

Proposals are due February 15, 2023. Approximately \$28 million is available to fund 10 to 15 awards.

LINKS: [Grants.gov](https://www.grants.gov), [Solicitation](#)

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Advancing Fish Passage and Protection Technologies  
Department of Energy (Energy), Office of Energy Efficiency and Renewable Energy (EERE)

Notice seeking applications to advance the Technology Readiness Level (TRL) of innovative fish passage and protection technologies by providing data through testing to verify technologies' biological effects and performance. Fish passage and protection technologies provide a way for fish to navigate barriers such as dams and impoundments and provide river connectivity by enabling fish movement and migrations.



Required concept papers are due December 5, 2022. Applications are due March 27, 2023. Up to five awards are available with a ceiling of \$1.3 million per award.

LINKS: [Grants.gov](#), [Solicitation](#)

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Engineering and Systems Integration Directorate (ESI)  
Army (Army), Department of Defense (Defense)

Notice seeking white papers to provide support for rapidly integrating and maturing ESI technologies onto ground and air platforms and for rapid prototyping to define, ideate, and test, to “learn by doing” and enable Soldier-centric System Design. ESI explores how to manage and securely transmit trustworthy data as it transverses the Army’s network.

White papers are due any time until November 1, 2027. Proposals are due by invitation only. Multiple awards are anticipated.

LINKS: [Contract Opportunities](#)

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Environmental System Science  
Department of Energy (Energy)

Notice seeking proposals to advance an integrated, robust, and scale-aware predictive understanding of terrestrial systems and their interdependent microbial, biogeochemical, ecological, hydrological, and physical processes.

Required pre-applications are due December 1, 2022. An estimated 10 to 14 awards are anticipated.

LINKS: [Grants.gov](#)

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Fiscal Year 2023 NOAA Chesapeake B-WET Program - School District Programming  
National Oceanic and Atmospheric Administration (NOAA), Department of Commerce (Commerce)

Notice seeking proposals to increase understanding and stewardship of the Chesapeake Bay and local watersheds, including the rivers, upland streams, and natural habitats found throughout the region. Projects advance the environmental literacy goal of the Chesapeake Bay Watershed Agreement and the NOAA Education Strategic Plan.

Applications are due February 10, 2023. Approximately \$450,000 is available to fund four to six awards.

LINKS: [Grants.gov](#)

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Great Lakes Fish and Wildlife Restoration Act FY 2023  
Fish and Wildlife Service (FWS), Department of the Interior (Interior)

Notice seeking applications to provide assistance to States, Indian Tribes, and other interested entities to encourage cooperative conservation, restoration, research, and management of fish and wildlife resources and their habitats in the Great Lakes Basin.

Applications are due January 5, 2023. Approximately \$2.89 million is available to fund 12 awards. 25 percent cost share is required.

LINKS: [Grants.gov](#)

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National Estuarine Research Reserve System (NERRS) Land Acquisition and Construction Program for Fiscal Year 2023

National Oceanic and Atmospheric Administration (NOAA), Department of Commerce (Commerce)

Notice seeking proposals from designated Reserve agencies for acquiring additional property interests, for facilities planning and design, and for construction projects that serve to strengthen protection of reserve key land and water areas; to enhance long-term protection of reserve areas for research and education; and provide for facility infrastructure and exhibit construction.

Proposals are due February 10, 2023. Approximately \$4.5 million is available to fund 5 to 20 awards. Cost sharing is required.

LINKS: [Grants.gov](https://www.grants.gov)

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Strategic Technology Office (STO) Office-wide

Defense Advanced Research Projects Agency (DARPA), Department of Defense (Defense)

Notice seeking proposals for innovative ideas and disruptive technologies that provide the U.S. military and national security leaders trusted, disruptive capabilities to win in all physical domains (Air, Space, Sea, and Land) and across the spectrum of competition, from deterrence to high-end peer combat.

Applications are due October 31, 2023. Multiple awards are anticipated.

LINKS: [Grants.gov](https://www.grants.gov), [Contract Opportunities](#)

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National Artificial Intelligence Research Resource Task Force; Notice of Meeting  
National Science Foundation (NSF)

Notice announcing a meeting of the National Artificial Intelligence Research Resource Task Force to vote on the implementation plan and roadmap for the NAIRR, and discuss the next steps after submission of the report to the President and Congress.

The meeting will be held virtually on December 7, 2022 from 1:00 to 2:00 p.m. ET.

LINKS: [Federal Register](#), [Agency Site](#)