

UNO FOCUS:

Transportation Innovation for Research Exploration (TIRE)
Louisiana Transportation Research Center (LTRC)

LTRC invites proposals for small-scale, exploratory research in all fields of transportation science, engineering and education normally supported by LTRC. Such research is characterized by: i. Preliminary work on untested and novel ideas; ii. ventures into emerging research ideas; iii. application of new expertise or new approaches to "old" research topics; iv. multi/cross-disciplinary work crossing LTRC program boundaries; v. research having severe urgency with regard to availability or access to data, facilities or equipment (i.e. study to supporting on-going research or construction projects); vi. efforts of similar character likely to catalyze rapid and innovative advances.

Tenure-track assistant professors who have not received a TIRE award that had start date of July 1, 2018 or later are eligible to apply. Associate professors who have not received a TIRE award and advanced to their current rank after July 1, 2021 are also eligible to apply. Investigators can involve colleagues as co-PIs but only in a no-cost role. Full professors/Research faculty/research associates/post docs/research staff are not eligible to submit TIRE proposals. Proposals must be submitted electronically before noon CT on January 28, 2022, to Sheri Hughes at sheri.hughes@la.gov.

LINKS: [LTRC](#)

ARTS, HUMANITIES, and INTERNATIONAL

FY22-23 CRCP International Coral Reef Conservation Grants and Cooperative Agreements
National Oceanic and Atmospheric Administration (NOAA), Department of Commerce (Commerce)

Notice seeking proposals focused on building international capacity for the effective ecosystem-based management of coral reef ecosystems. They support important fishing and tourism industries, protect coasts from wave and storm damage, build tropical islands, contain an array of potential pharmaceuticals, and provide essential services like food security, livelihood, and culture, among other benefits.

Applications are due December 1, 2021. Approximately \$1 million is available to support 10 awards. Partnerships are encouraged. One to one cost share is required.

LINKS: [Grants.gov](#)

Global Biological Threat Reduction and Border Security
Bureau of International Narcotics and Law Enforcement Affairs (INL), Department of State (State)

Notice seeking proposals that focuses primarily on workforce development that builds sustainable in-country expertise to prevent the natural emergence, accidental release, or intentional diversion of high consequence pathogens.

Applications are due November 22, 2021. Approximately \$8.5 million is available to support multiple awards.

LINKS: [Grants.gov](#)

EDUCATION and ECONOMIC & COMMUNITY DEVELOPMENT

Higher Education Programs (HEP): National Center for Information and Technical Support for Postsecondary Students with Disabilities Program, Assistance Listing Number 84.116D
Department of Education (Education), Office of Postsecondary Education (OPE)

Notice seeking applications to provide technical assistance and information on best and promising practices for students with disabilities as they transition to or attend postsecondary education.

Applications are due October 22, 2021. Approximately \$1.98 million is available.

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

Capacity Building Grants for Non-Land Grant Colleges of Agriculture Program
National Institute of Food and Agriculture (NIFA), United States Department of Agriculture (USDA)

Notice seeking proposals from Non-Land Grant colleges of agriculture for projects to help build capacity in maintaining and expanding their capacity to conduct education, research, and outreach/extension activities relating to food, agriculture, natural resources, and human sciences. Regular, planning activity/conference, and collaborative grants are available.

Applications are due November 22, 2021. Approximately \$4.8 million is available FY22, as well as more than \$2.2 million from FY21. Funding levels are determined by grant type. Multiple awards are anticipated.

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

Environmental Education Local Grants Program -- Solicitation Notice for 2021
Environmental Protection Agency (EPA), Office of Environmental Education

Notice seeking applications to support locally-focused environmental education projects that increase public awareness and knowledge about environmental issues and provide the skills that participants in its funded projects need to make informed decisions and take responsible actions toward the environment. This includes Regions 1 through 10.

Applications are due December 6, 2021. Approximately \$3 million is available to support multiple awards. Cost share of at least 25 percent is required.

LINKS: [Grants.gov \(Region 4\)](#), [Agency Site](#)

HEALTH and MENTAL HEALTH

Clinical Characterization of Cancer Therapy-induced Adverse Sequelae and Mechanism-based Interventional Strategies (R01 Clinical Trial Optional)
National Institutes of Health (NIH), Department of Health and Human Services (HHS)

Notice seeking applications to support collaborative research projects designed to address adverse sequelae of cancer therapies that persist and become chronic comorbidities or develop as delayed posttreatment effects.

Applications are due annually on February 5, June 5, and October 5. Program expires November 6, 2024. Optional letters of intent are due September 5, 2021.

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

Development of Microbiome-Related Approaches for Diagnosis-Mitigation-Treatment of Radiation Injuries (U01 Clinical Trial Not Allowed)
National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute of Allergy and Infectious Diseases (NIAID)

Notice seeking applications to support research that will advance the understanding of how the microbiome

affects radiation injury and to develop medical countermeasures (MCMs) that target the microbiome to prevent or mitigate radiation injury.

Applications are due February 9, 2022. Optional letters of intent are due 30 days prior to the application due date. Approximately \$5 million is available to support seven to eight awards in FY 2023.

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

Mood and Psychosis Symptoms during the Menopause Transition (R01 R21 Clinical Trial Optional)
National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute of Mental Health (NIMH)

Notice seeking applications that will advance mechanistic and translational research on the onset and worsening of mood and psychotic disorders during the menopausal transition (or perimenopause).

R01 applications are due annually on February 5, June 5, and October 5. R21 applications are due annually on February 16, June 16, and October 16. Program expires January 8, 2025.

LINKS: [Grants.gov \(R21\)](#), [Grants.gov \(R01\)](#), [Solicitation](#)

NCI Outstanding Investigator Award (R35 Clinical Trial Not Allowed)
National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Cancer Institute (NCI)

Notice seeking applications to provide long-term support to accomplished investigators with outstanding records of cancer research accomplishments who propose to conduct exceptional research. The OIA is intended to allow investigators the opportunity to take greater risks, be more adventurous in their lines of inquiry, or take the time to develop new techniques.

Applications are due November 4, 2021. Optional letters of intent are due 30 days prior to the application due date.

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

SUNBEAM - Analysis and Bioinformatics Center (ABC) (UM1 Clinical Trial Not Allowed)
National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute of Allergy and Infectious Diseases (NIAID)

Notice seeking applications to establish a mechanistic omics center to support the birth cohort study Systems Biology of Early Atopy (SUNBEAM). The center will assay biologic samples collected within the SUNBEAM cohort using omics and systems biology approaches to identify determinants of atopic disease, focusing on food allergy and atopic dermatitis (AD) in newborns, infants, and very young children.

Applications are due February 15, 2022. Optional letters of intent are due 30 days prior to the application due date. Approximately \$3 million is available.

Limited Submission: Only one application per institution is allowed

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

The NCI Predoctoral to Postdoctoral Fellow Transition Award (F99 K00 Clinical Trial Not Allowed)
National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Cancer Institute (NCI)

Notice seeking proposals to facilitate the transition of talented graduate students into successful cancer

research postdoctoral appointments and provide opportunities for career development activities relevant to their long-term career goals of becoming independent cancer researchers.

Applications are due November 18, 2021. Approximately \$1.1 million is available to fund up to 24 awards.

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

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

Notice announcing a meeting of the Interagency Autism Coordinating Committee to discuss business, agency updates, and issues related to autism spectrum disorder research and services activities.

The meeting will be held virtually on October 13 and 14, 2021 from 1:00 to 5:00 p.m. ET.

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

Effectiveness and Implementation Research for Post-Acute Interventions to Optimize Long-Term Mental Health Outcomes in Low- and Middle-Income Countries (R34 Clinical Trial Optional)
National Institutes of Health (NIH), Department of Health and Human Services (HHS), National Institute of Mental Health (NIMH)

Notice seeking applications for effectiveness and implementation science on the post-acute (long-term or chronic) management of mental health conditions. This FOA aims to advance the development of novel and innovative implementation research to improve the availability and accessibility of post-acute services in low- and middle-income countries (LMICs).

Applications are due December 9, 2021. Optional letters of intent are due November 9, 2021. Approximately \$2.5 million is available to support seven awards.

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

Graduate Psychology Education Program
Health Resources and Services Administration (HRSA), Department of Health and Human Services (HHS)

Notice seeking proposals to train doctoral health service psychology students, interns, and post-doctoral residents to provide quality interdisciplinary, integrated behavioral health including but not limited to Opioid Use Disorder (OUD) and other Substance Use Disorders (SUD) into community-based primary care settings in high need and high demand areas.

Applications are due December 9, 2021. Approximately \$25 million is available to support 55 awards.

LINKS: [Grants.gov](#)

INvestigation of Co-occurring conditions across the Lifespan to Understand Down syndrome (INCLUDE)
Exploratory-Developmental Research Grant Award (R21 Clinical Trial Not Allowed)
National Institutes of Health (NIH), Department of Health and Human Services (HHS)

Notice seeking applications for support of new exploratory and developmental research projects that address critical needs for Down syndrome projects, as articulated in the INCLUDE (INvestigation of Co-occurring conditions across the Lifespan to Understand Down syndrome) project objectives. For example, such projects could assess the feasibility of a novel area of investigation or a new experimental system that has the potential to enhance health-related research.

Applications are due annually on November 3. Program expires November 4, 2023. Optional letters of intent are due 30 days before each application due date. Approximately \$1 million or more is available to support up to five awards.

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

Modern Equipment for Shared-use Biomedical Research Facilities: Advancing Research-Related Operations (R24 Clinical Trials Not Allowed)

National Institutes of Health (NIH), Department of Health and Human Services (HHS), Office of Research Infrastructure Programs (ORIP)

Notice seeking applications for qualified academic or research institutions to apply for support to purchase and install advanced equipment to enhance and modernize research-supporting operations of biomedical research facilities. Targeted are core facilities, animal research facilities, and other research spaces that are used on a shared basis.

Applications are due December 1, 2021. The amount and number of awards may vary.

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

National Heart, Lung, and Blood Institute; Notice of Meeting

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

Notice announcing a meeting of the National Heart, Lung, and Blood Advisory Council to discuss program policies and issues.

The open portion of the meeting will be held virtually on October 26, 2021 from 11:30 a.m. to 5:00 p.m. ET.

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

SCIENCE, TECHNOLOGY, ENGINEERING, and MATHEMATICS

FY 2022 US Marine Life Observations: Coordinated Marine Biodiversity Observation Network (MBON) and Animal Telemetry Network (ATN) Activities to Ensure Resilient, Productive Ecosystems and Human Communities in the Face of Change

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

Notice seeking proposals that: (1) build upon the foundation established by the US Marine Biodiversity Observation Network (MBON), the US Animal Telemetry Network (ATN), and the US IOOS Regional Associations to work across sectors and disciplines towards an integrated, sustained marine life observing capability for the U.S. ocean, coasts and Great Lakes, from estuaries to the deep ocean; (2) advance technologies for efficient and/or automated collection of species and associated habitat observations; (3) enable open access to biodiversity data and information; and (4) utilize these observations, technologies, and data to address place-based (e.g., sanctuaries, reserves, protected areas, leasing blocks, etc) management, conservation and restoration needs.

Proposals are due December 17, 2021. Approximately \$6 million per year is available to support up to 12 awards.

LINKS: [Grants.gov](#)

FY2022 National Sea Grant College Program Special Projects

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

Notice seeking proposals for special projects consistent with the focus areas outlined in the National Sea

Grant College Program's (Sea Grant) strategic plan, and to provide the general public with information and guidelines on how Sea Grant will select proposals and administer federal assistance under this announcement.

Applications are due September 30, 2022. Cost sharing is required.

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

FY22 Living Marine Resources (LMR) Program Environmental Need Topics
Department of Defense (Defense), Naval Facilities Engineering and Expeditionary Warfare Center (NEXWC)

Notice seeking pre-proposals for efforts related to the need topic. The topics are Demonstrate and Validate the Ability of Existing Sparse Acoustic Array Technology to Address Navy Marine Species Monitoring Goals; Demonstrate Existing Marine Mammal Tag Technologies; and Improve the Ability to Identify Calling Individual From Acoustic Tags.

Required pre-proposals are due December 2, 2021 to exwc_lmr_program@navy.mil.

LINKS: [Contract Opportunities](#)

Hardening Development Toolchains Against Emergent Execution Engines (HARDEN)
Defense Advanced Research Projects Agency (DARPA), Department of Defense (Defense), Information Innovation Office (I2O)

Notice seeking proposals to explore novel approaches that use formal verification methods and Artificial Intelligence (AI)-aided program models, analyses, and logics to develop practical tools to anticipate, isolate, and mitigate emergent execution engines throughout the entire software development lifecycle in order to disrupt the patterns of robust, reliable, and composable exploit primitives that empower attackers.

Proposals are due November 4, 2021. Questions are due November 1, 2021. Multiple awards are anticipated.

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

Materials Research Science and Engineering Centers
Directorate for Mathematical & Physical Sciences (MPS), National Science Foundation (NSF)

Notice seeking proposals to establish a Materials Research Science and Engineering Center to conduct materials research and education of the highest quality while addressing fundamental problems in science and engineering.

Applications are due June 20, 2022. Approximately \$25 million is available to fund up to eight awards.

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

National Sea Grant College Program Dean John A. Knauss Marine Policy Fellowship
National Oceanic and Atmospheric Administration (NOAA), Department of Commerce (Commerce)

Notice seeking proposals to provide an educational and employment opportunity for current and recent graduate students interested in ocean, coastal and Great Lakes resources and thenational policy decisions affecting those resources, regardless of race, color, religion, place of origin, gender, sexual orientation, age, socio-economic status, disability or veteran status.

Applications are February 18, 2022. 35 fellowships are anticipated. Approximately \$89,000 is available to each fellowship.

LINKS: [Grants.gov](#)

NSF-DFG Lead Agency Activity in Chemistry and Transport in Confined Spaces
National Science Foundation (NSF)

Notice seeking proposals for collaborations between US and German researchers in the areas of chemistry and transport in confined spaces.

Applications are due March 7, 2022. Approximately \$2 million to \$5 million is available to fund an anticipated four to ten awards.

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

University-Based Cybersecurity Centers
Department of Energy (Energy), National Energy Technology Laboratory (NETL)

Notice seeking applications to establish a network of university-based, regional electric power cybersecurity centers. These centers should address interrelated research and development challenges of cybersecurity and critical energy infrastructure, while considering the distinctive characteristics of each region's electricity system, network of infrastructure, and workforce expertise.

Required concept papers are due October 13, 2021. Applications are due December 8, 2021. Approximately \$10 million is available to support four awards. Cost sharing is required.

LINKS: [Grants.gov](#)

ROSES 2021: Strategic Astrophysics Technology
National Aeronautics and Space Administration (NASA)

Notice seeking proposals to support the maturation of key technologies for potential infusion in spaceflight missions. Strongly endorsed by the 2010 Decadal Survey of Astronomy and Astrophysics, the SAT program is a key element of the strategy adopted by APD in implementing these recommendations.

Proposals are due December 16, 2021. Notices of intent are requested by November 19, 2021. Approximately \$5 million is available.

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

Advisory Committee for Engineering
National Science Foundation (NSF)

Notice announcing a meeting of the Advisory Committee for Engineering. The purpose of the meeting is to provide advice, recommendations and counsel on major goals and policies pertaining to engineering programs and activities.

The meeting will be held October 21, 2021; 11:00 a.m. to 6:00 p.m. at National Science Foundation, 2415 Eisenhower Avenue, Alexandria, Virginia 22314 | Virtual.

LINKS: [Federal Register](#)

DARPA Forecasting Floats in Turbulence (FFT) Challenge Competitors Day

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

Notice announcing a Competitors Day event for its Forecasting Floats in Turbulence (FFT) challenge to provide information to potential competitors on the objectives of the DARPA FFT challenge. The goals of the FFT challenge Competitors Day are: To introduce the science and technology community to the DARPA Ocean of Things program vision and goals; and To provide preliminary information about the FFT challenge, with the primary focus on inspiring and attracting potential self-funded competitors.

The virtual webinar will be held on October 7 2021, from 2:00 to 3:00pm ET. Advance registration is required. Participants must register at <https://cvent.me/8woye5>.

LINKS: [Contract Opportunities](#)

Planetary Science Advisory Committee
National Aeronautics and Space Administration (NASA)

Notice announcing a meeting of the Planetary Science Advisory Committee. The meeting will be held for the purpose of soliciting, from the scientific community and other persons, scientific and technical information relevant to program planning.

The meeting will be held Monday, October 18, 2021, 10:00 a.m. to 6:00 p.m., ET; and Tuesday, October 19, 2021, 10:00 a.m. to 6:00 p.m., ET via virtual.

LINKS: [Federal Register](#)