

## UNO FOCUS:

2021 Fall Undergraduate Scholarship Competition  
Oak Ridge Institute for Science & Education (ORISE)

The Oak Ridge Institute for Science Education (ORISE) is hosting a research-based challenge for undergraduate students! The challenge is for students to develop a website on plastic recycling. Students will research their schools' current process for recycling plastic and then design/create a strategy to make the process more efficient. Thorough submissions will include further research on the plastic recycling process, benefits of current recycling methods, and process improvement ideas. Your website could win you a \$5,000 scholarship! Second place receives a \$3,000 scholarship, and third place is a \$1,000 scholarship.

The deadline to apply is November 30, 2021.

LINKS: [Application](#)

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Rapid Response Research (R3) Cooperative Agreement Notice (CAN)  
NASA EPSCoR

The NASA EPSCoR R3 component is intended to support EPSCoR researchers to work alongside of NASA and commercial partners for up to one year on specific technical issues listed in the CAN, and to strengthen the bonds among EPSCoR jurisdictions, NASA, the commercial partners, and other entities. The specific tasks offered in the FY2022 R3 CAN are detailed, including research topic expectations and NASA point-of-contact information, in the below-linked document. NASA will allow Louisiana to submit no more than one proposal per division. Each proposal can address only one research topic under one of the divisions. The funding level for a task is limited to \$90,000 for a one-year period of performance (\$10,000 is held back for scientific and technical management).

A required Notice of Intent (NOI) is due by 11:59 pm on Friday, November 12, 2021. The pre-proposal will need to be reviewed and submitted to the Louisiana Board of Regents LOGAN system by the institution's Office of Sponsored Programs (or equivalent) by close of business (4:30 p.m.) on Monday, December 20, 2021.

LINKS: [Notice](#)

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Joint Fellowship Program in Population and Ecosystem Dynamics and Marine Resource Economics  
NMFS-Sea Grant

The NMFS-Sea Grant Joint Fellowship Program in Population and Ecosystem Dynamics and Marine Resource Economics places Ph.D. students in research-based fellowships that provide support for up to three years. The program is designed to fulfill workforce development needs identified by the NOAA National Marine Fisheries Service (NMFS) and since 1999, has provided opportunities for 151 Ph.D. students.

The opportunity to apply for 2022 fellowships is now open. Applications are due to Sea Grant programs on January 27, 2022.

LINKS: [SeaGrant](#)

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## ARTS, HUMANITIES, and INTERNATIONAL

U.S. Embassy New Zealand PAS Annual Program Statement  
Department of State (State), U.S. Mission to New Zealand

Notice seeking statements of interest (SOI) for projects that seek to do at least one of the following:

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 bilateral trade and investment; promote stronger connections between the people of the United States and New Zealand; and deepen the relationships with Pacific communities, in New Zealand, Niue and the Cook Islands, based on our shared values and heritage.

Applications are accepted anytime until August 1, 2022. Approximately \$350,000 is available.

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

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U.S. Embassy Athens, Public Affairs Section, Annual Program Statement  
Department of State (State), U.S. Mission to Greece

Notice seeking proposals for projects that strengthen ties between the United States and Greece through concrete demonstrations of cooperation between our two peoples. All grant proposals must convey an element of American history, culture, or shared values.

Applications are due November 22, 2021. The maximum award amount is \$50,000.

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

## EDUCATION and ECONOMIC & COMMUNITY DEVELOPMENT

National Environmental Justice Advisory Council; Notification for a Virtual Public Meeting  
Environmental Protection Agency (EPA)

Notice announcing a meeting of the National Environmental Justice Advisory Council. The purpose of the meeting is to focus on providing information and receiving NEJAC feedback regarding the environmental justice and civil rights compliance elements of the draft of EPA's next multiyear strategic plan as well as other aligned efforts and plans of the agency.

The virtual meeting will be held on Wednesday, November 10, 2021, from approximately 1:00 p.m. to 5:00 p.m., ET. Individual registration is required for the virtual public meeting. Information on how to register is located <https://www.epa.gov/environmentaljustice/national-environmental-justice-advisory-council-meetings>.

LINKS: [Federal Register](https://www.federalregister.gov)

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White House Environmental Justice Advisory Council; Notification of Virtual Public Meeting  
Environmental Protection Agency (EPA)

Notice announcing a meeting of the White House Environmental Justice Advisory Council. The purpose of the meeting is to provide advice and recommendations about broad cross-cutting issues, related but not limited to, issues of environmental justice and pollution reduction, energy, climate change mitigation and resiliency, environmental health, and racial inequity.

The virtual public meeting will be held on Wednesday, November 17, 2021, and Thursday, November 18, 2021, from approximately 3:00 p.m.-7:30 p.m., ET each day. Individual registration is required for the virtual public meeting. Information on how to register is located at <https://www.epa.gov/environmentaljustice/white-house-environmental-justice-advisory-council>.

LINKS: [Federal Register](https://www.federalregister.gov)

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Bureau of Economic Analysis Advisory Committee  
Department of Commerce (Commerce)

Notice announcing a meeting of the Bureau of Economic Analysis Advisory Committee. The purpose is to address proposed improvements, extensions, and research related to BEA's economic accounts. In addition, the meeting will include an update on recent statistical developments.

The meeting will be held Friday, November 19, 2021 at 10:00 a.m. and adjourns at 2:30 p.m. The meeting will be held virtually.

LINKS: [Federal Register](#)

## HEALTH and MENTAL HEALTH

Clinical Research Education and Career Development (CRECD) Program (R25-Independent Clinical Trial Not Allowed)

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

Notice seeking proposals for educational activities that enhance the diversity of the clinical research workforce with a primary focus on courses for Skills Development and Research Experiences.

Applications are due December 15, 2021. Multiple awards of up to \$500,000 per year are anticipated.

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

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Enhanced Interpersonal Focused Strategies for Suicide Prevention Interventions (R34 Clinical Trial Required)

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

Notice seeking applications to evaluate the preliminary effectiveness of therapeutic and service delivery interventions that utilize interpersonal treatment strategies to reduce risk among suicidal individuals following acute care by enhancing perceived social supports and connections that contribute to life-affirming beliefs, intentions, and behaviors and/or by promoting adherence/sustained engagement in appropriate mental health services.

Applications are due February 18, 2022. Optional letters of intent are due 30 days prior to the application due date. Approximately \$2 million is available to support eight awards.

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

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Expanding Differentiated Care Approaches for Adolescents Living with HIV (R01 R34 Clinical Trial Optional)

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

Notice seeking planning and research applications that will evaluate differentiated models of care for adolescents and young adults (referred to in this FOA as youth) who are living with HIV around the world. Differentiated care models can be designed to maintain or improve health outcomes along the HIV care continuum for youth living with HIV (YLWH).

Applications are due January 6, 2022. Optional letters of intent are due December 6, 2021. Approximately \$2 million is available to support four to six awards.

LINKS: [Grants.gov \(R01\)](#), [Grants.gov \(R34\)](#), [Solicitation](#)

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Identification and Characterization of Persistence Mechanisms of Select Protozoan Pathogens (R01 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 expand our understanding of protozoan parasite persistence mechanisms and provide research tools and strategies to enable identification and credentialing of novel treatments for persistent protozoan pathogens.

Applications are due February 8, 2022. Optional letters of intent are due 30 days prior to the application due date. Approximately \$4.5 million is available to support nine awards.

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

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Rural Residency Planning and Development Program

Health Resources and Services Administration (HRSA), Department of Health and Human Services (HHS), Federal Office of Rural Health Policy (ORHP)

Notice seeking applications to improve health care in rural areas by developing new, accredited, and sustainable rural residency programs in family medicine, internal medicine, preventive medicine, psychiatry, general surgery, and obstetrics and gynecology, to support expansion of the physician workforce in rural communities.

Applications are due December 20, 2021. Approximately \$10.5 million is available to support up to 14 awards.

LINKS: [Grants.gov](#)

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CVM Vet-LIRN Veterinary Diagnostic Laboratory Program (U18) Clinical Trials Not Allowed  
Food and Drug Administration (FDA), Department of Health and Human Services (HHS), Center for Veterinary Medicine (CVM)

Notice seeking applications for inclusion into FDA's Veterinary Laboratory Investigation and Response Network Cooperative Agreement Program for Veterinary Diagnostic Laboratories.

Applications are due February 10, 2022, February 10, 2023, and February 9, 2024. Optional letters of intent are due December 10, 2021, December 9, 2022, and December 8, 2023. Up to \$1.8 million is available to support 50 awards.

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

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Integrating Biospecimen Science Approaches into Clinical Assay Development (U01 Clinical Trial Not Allowed)

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

Notice seeking proposals to investigate and mitigate challenges facing clinical assay development and subsequent analytical validation due to preanalytical variability in tumor tissue biopsies, blood biospecimens utilized as liquid biopsies", or other biospecimens.

The next due date for applications is January 11, 2022. Multiple awards of up to \$250,000 per year are anticipated.

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

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Large Health Services Research Demonstration and Dissemination Projects for Combating Antibiotic-Resistant Bacteria (CARB)(R18)  
Agency for Healthcare Research and Quality (AHRQ), Department of Health and Human Services (HHS)

Notice seeking proposals to conduct Large Health Services Research Demonstration and Dissemination Projects focused on Combating Antibiotic-Resistant Bacteria in the following ways: by promoting appropriate antibiotic use; reducing the transmission of resistant bacteria; and preventing healthcare-associated infections in the first place.

The next due date for applications is January 25, 2022. Multiple awards of up to \$500,000 per year are anticipated.

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

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Large Research Projects for Combating Antibiotic-Resistant Bacteria (CARB) (R01)  
Agency for Healthcare Research and Quality (AHRQ), Department of Health and Human Services (HHS)

Notice seeking proposals to conduct Large Health Services Research Projects focused on Combating Antibiotic-Resistant Bacteria in the following ways: by promoting appropriate antibiotic use; reducing the transmission of resistant bacteria; and preventing healthcare-associated infections in the first place.

The next due date for applications is February 5, 2022. Multiple awards of up to \$500,000 per year are anticipated.

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

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Occupational Safety and Health Training Project Grants  
Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS)

Notice seeking applications for Training Project Grants (TPGs) 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. NIOSH supported Education and Research Centers (ERCs) and TPGs are how NIOSH meets this mandate.

Applications are due December 17, 2021; October 25, 2022; October 24, 2023; October 22, 2024; and October 23, 2025. Optional letters of intent are due November 17, 2021; September 20, 2022; September 19, 2023; September 17, 2024; and September 18, 2025. Approximately \$3 to \$3.8 million is available to support 20 to 30 awards.

Limited Submission: An educational institution may submit one Training Project Grant application with up to 3 academic training programs under this announcement.

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

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Advisory Committee on Immunization Practices (ACIP)  
Centers for Disease Control and Prevention (CDC), Department of Health and Human Services (HHS)

Notice announcing a meeting of the Advisory Committee on Immunization Practices for discussions on adult immunization schedule, child/adolescent immunization schedule, Ebola vaccine, hepatitis vaccines, Orthopoxviruses vaccine and COVID vaccines.

The meeting will be held virtually on November 2 and 3, 2021 from 10:00 a.m. to 5:00 p.m. ET.

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

## SCIENCE, TECHNOLOGY, ENGINEERING, and MATHEMATICS

2022 Wood Innovations Funding Opportunity  
United States Department of Agriculture (USDA), Forest Service (FS)

Notice seeking applications to stimulate, expand, and support U.S. wood products markets and wood energy markets to support the long-term management of National Forest System and other forest lands.

Applications are due January 19, 2022. Approximately \$8 million is available. Cost sharing is required.

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

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Broad Agency Announcement Special Notice Network Aided Position Navigation and Timing solutions for dismounted Soldiers  
Department of Defense (Defense), Army Contracting Command (ACC)

Notice seeking white papers to continue to obtain and maintain position navigation and timing while not relying on standard GPS (denied or low RF environments). Dismounted operations include operating without immediate access to vehicle support, devices carried by a Soldier should be small, lightweight, and capable of operating with low power consumption.

White papers are due November 2, 2021 to the contacts below. Invited proposals are due November 26, 2021. Up to \$2 million per award is available.

LINKS: [Contract Opportunities](#)

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Computer and Network Systems (CNS): Core Programs, Large  
Directorate for Computer & Information Science & Engineering (CISE), National Science Foundation (NSF)

Notice seeking proposals to support research and education projects that take a system-oriented approach to the development of novel computing and networking technologies, or to the enhancement of existing systems in any of several dimensions, or that explore new ways to make use of existing technologies. This solicitation invites proposals tackling ambitious problems in computing and networking that are well suited to an integrated systems-oriented approach.

Proposals are due January 18, 2022. Approximately \$3 to \$12 million is available to support up to four awards.

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

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Coral Reef Conservation Program Domestic Capacity-Building Partnerships  
National Oceanic and Atmospheric Administration (NOAA), Department of Commerce (Commerce)

Notice seeking proposals focused on building domestic capacity to assist state and territorial agencies with coral reef conservation and management responsibilities.

Applications are due February 11, 2022. Optional letters of intent are due December 10, 2021 to [coral.grants@noaa.gov](mailto:coral.grants@noaa.gov). Approximately \$1 million is available to support up to 10 awards. Partnership are encouraged.

LINKS: [Grants.gov](#)

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Dark Dimensions of the RNA Regulome  
Directorate for Biological Sciences (BIO), National Science Foundation (NSF)



Notice seeking proposals whose focus will be the exploration of novel approaches to elucidate the evolutionary and functional significance of RNA transcripts that do not encode proteins as well as the technological innovations that may arise from the ability to harness the power of non-coding RNA to solve pressing societal problems.

Required preliminary proposals are due January 31, 2022. Proposals are due August 31, 2022. Approximately \$15 million is available to support four to seven awards.

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

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#### Designing Accountable Software Systems

Directorate for Computer & Information Science & Engineering (CISE), Directorate for Social, Behavioral & Economic Sciences (SBE), National Science Foundation (NSF)

Notice seeking proposals aimed towards a deeper understanding and formalization of the bi-directional relationship between software systems and the complex social and legal contexts within which software systems must be designed and operate. The DASS program aims to bring researchers in computer and information science and engineering together with researchers in law and social, behavioral, and economic sciences to jointly develop rigorous and reproducible methodologies for understanding the drivers of social goals for software and for designing, implementing, and validating accountable software systems.

Proposals are due January 28, 2022 and January 27, 2023. Approximately \$7.5 million is available to support 10 awards.

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

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#### Dynamics of Integrated Socio-Environmental Systems

National Science Foundation (NSF)

Notice seeking proposals to advance basic scientific understanding of integrated socio-environmental systems and the complex interactions (dynamics, processes, and feedbacks) within and among the environmental (biological, physical and chemical) and human ("socio") (economic, social, political, or behavioral) components of such a system.

Applications are due November 15, 2021. An estimated 9 to 15 awards are anticipated.

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

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#### Office of Polar Programs Postdoctoral Research Fellowships

National Science Foundation (NSF)

Notice seeking proposals to provide opportunities for early career scientists, including social scientists, to accomplish one or more of the following goals: expand their work across traditional disciplinary lines, develop new partnerships connecting the polar regions and/or non-polar research communities, and provide entry to researchers who have traditionally had limited access to polar research resources, sites and facilities. The fellowship program encourages the integration of new investigators who have not previously worked in polar regions and/or innovative techniques that have not previously been applied to polar science into polar research.

Proposals are due February 7, 2022. Approximately \$3 million is available to support 10 awards.

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

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Organismal Response to Climate Change  
National Science Foundation (NSF)

Notice seeking proposals that build on NSF's investment in growing convergence research by developing integrative, cross-disciplinary approaches that examine the organismal mechanisms that underlie adaptive and maladaptive responses to environmental factors associated with climate change, how these responses affect fitness in changing and/or novel climates, and the genetic and evolutionary processes through which these traits originate, persist, and are transmitted across generations.

Applications are due March 1, 2022. Approximately \$10 million is available to fund six to ten awards.

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

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Secure and Trustworthy Cyberspace  
National Science Foundation (NSF)

Notice seeking proposals to protect and preserve the growing social and economic benefits of cyber systems while ensuring security and privacy.

Proposals may be submitted anytime between October 25, 2021 and September 29, 2023. Approximately \$69 million is available to support 90 awards.

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

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Targeted Evaluation of Ionizing Radiation Exposure (TEI-REX)  
Intelligence Advanced Research Projects Activity (IARPA), Director of National Intelligence (DNI), Army Research Office (ARO)

Notice seeking applications to establish novel biodosimetry approaches enabling improved quantification of lower-dose ionizing radiation exposures (<0.75 Gray)<sup>1</sup> from samples that can be collected and/or tested minimally or non-invasively (hereafter known as 'TEI-REX samples'), while also expanding quantitative and qualitative knowledge of the exposure environment.

Applications are due December 13, 2021. Questions are due November 1, 2021. Multiple awards are anticipated.

LINKS: [Grants.gov](#)

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Tectonics  
Directorate for Geosciences (GEO), National Science Foundation (NSF)

Notice seeking proposals to support a broad range of field, laboratory, computational, and theoretical investigations aimed at understanding the deformation of the terrestrial continental lithosphere (i.e. above the lithosphere-asthenosphere boundary).

Proposals are accepted anytime. Approximately \$11.7 million is available to support 40 to 50 awards.

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

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DOE-NSF Nuclear Science Advisory Committee  
Department of Energy (Energy), Office of Science (SC)

Notice announcing a meeting of the Nuclear Science Advisory Committee. The purpose of the meeting is to provide advice and guidance on a continuing basis to the Department of Energy and the National Science Foundation on scientific priorities within the field of basic nuclear science research.



The meeting will be held Tuesday, November 16, 2021; 10:00 a.m.-5:15 p.m. (ET) via Zoom. Information to participate can be found on the website closer to the meeting date at: <https://science.osti.gov/np/nsac/meetings>.

LINKS: [Federal Register](#)

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Machine Learning Applied to Radiofrequency Signals Request for Information (RFI)  
Defense Advanced Research Projects Agency (DARPA), Department of Defense (Defense), Microsystems Technology Office (MTO)

Notice seeking information to identify organizations with experience applying artificial intelligence (AI) and machine learning (ML) to radio frequency (RF) signals for defense applications.

Responses are due November 10, 2021 to [DARPA-SN-22-04@darpa.mil](mailto:DARPA-SN-22-04@darpa.mil).

LINKS: [Contract Opportunities](#)

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Broadening Participation in Engineering  
Directorate for Engineering (ENG), National Science Foundation (NSF)

Notice seeking proposals to strengthen the future U.S. engineering workforce by enabling and encouraging the participation of all citizens in the engineering enterprise. The BPE Program seeks to support not only research in the science of broadening participation and equity in engineering, but also collaborative endeavors which foster the professional development of a diverse and well-prepared engineering workforce as well as innovative, if not revolutionary, approaches to building capacity through inclusivity and equity within the engineering academic experience.

Proposals are due January 28, 2022. Approximately \$13 million is available to support 25 to 40 awards.

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

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Computer and Information Science and Engineering Minority-Serving Institutions Research Expansion Program  
National Science Foundation (NSF)

Notice seeking proposals to broaden participation by increasing the number of CISE-funded research projects from MSIs and to develop research capacity toward successful submissions to core CISE programs. MSIs are central to inclusive excellence: they foster innovation, cultivate current and future undergraduate and graduate computer and information science and engineering talent, and bolster long-term U.S. competitiveness.

Proposals are due February 11, 2022 and Second Friday in February, annually thereafter. Approximately \$7 million is available to support 10 to 17 awards.

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

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Internet Measurement Research: Methodologies, Tools, and Infrastructure  
National Science Foundation (NSF)

Notice seeking proposals to support methodologies, tools, and research infrastructure for Internet measurement spanning access (both wireless and fixed broadband) and core Internet. Currently, Internet measurement is conducted in a piece meal and uncoordinated manner, and the infrastructure to collect, share, and process the data does not include data on all aspects of the network covering both wireless and wired Internet.

Proposals are due January 20, 2022. Approximately \$14 million is available to support 26 awards.

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

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Navigating the New Arctic  
National Science Foundation (NSF)

Notice seeking proposals for innovations in fundamental convergence research across the social, natural, environmental, computing and information sciences, and engineering that address the interactions or connections among natural and built environments and social systems, and how these connections inform our understanding of Arctic change and its local and global effects.

Proposals are due February 16, 2022. Approximately \$30 million is available.

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

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Science and Technology Centers: Integrative Partnerships  
National Science Foundation (NSF)

Notice seeking proposals to support 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.

Required preliminary proposals are due February 1, 2022. Proposals are due August 29, 2022. Approximately \$30 million is available to support up to five awards.

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

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Earth Science Advisory Committee; Meeting  
National Aeronautics and Space Administration (NASA)

Notice announcing a meeting of NASA's Earth Science Advisory Committee to conduct the annual program performance review.

The meeting will be held virtually on November 4, 2021 from 1:00 to 2:00 p.m. ET.

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

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NASA Advisory Council; Science Committee; Meeting  
National Aeronautics and Space Administration (NASA)

Notice announcing a meeting of the Science Committee of the NASA Advisory Council to discuss Science Mission Directorate Missions, Programs and Activities.

The meeting will be held virtually on November 9 and 10, 2021 from 1:00 to 5:00 p.m. ET.

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

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

Notice announcing a meeting of NASA's Planetary Science Advisory Committee for updates from the Planetary Science Division Research and Analysis Program.

The meeting will be held virtually on November 15 and 16, 2021 from 10:00 a.m. to 6:00 p.m. ET.

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