

# NJIT Research Newsletter

Issue: ORN-2021-34

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**NJIT Research Newsletter** includes recent awards, and announcements of research related seminars, webinars, national and federal research news related to research funding, and **Grant Opportunity Alerts** (with links to sections). The Newsletter is posted on the NJIT Research Website <https://research.njit.edu/funding-opportunities> .

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## Special Announcements

### **2021 URI Summer Research and Innovation Symposium**

#### **Student Presentation Session Video-Recordings**

<https://drive.google.com/drive/folders/1JjILDQoO9tBTafJuzuAifW9XnZn3FEo7?usp=sharing>

Undergraduate research provides students a unique opportunity to learn necessary and important skills to research and innovate towards taking a leadership role in the society. As a student-centered research institution, NJIT is committed to providing opportunities for research participation beginning at the undergraduate level.

The 2021 NJIT Undergraduate Summer Research and Innovation Symposium integrated with the Innovation Day was held on July 29-30, 2021. One hundred and thirty-four (134) undergraduate students presented 108 projects with their summer research work before the in-person and virtual audience

including URI External Advisory Board, faculty and students. About 200 faculty, students and staff members attended the symposium in-person over two days in Ballroom and Atrium at the Campus Center.

The video recordings of the keynote talk and student presentation sessions held at the 2021 URI Summer Research and Innovation Symposium on July 29-30, 2021 are posted at the Google Drive link <https://drive.google.com/drive/folders/1JjILDQoO9tBTAfJuzuAifW9XnZn3FEo7?usp=sharing>. The video recordings can also be accessed through the URI program website <https://centers.njit.edu/uri/>. The 2021 URI Summer Research and Innovation Symposium Book of Abstracts is posted on the URI Programs website <https://centers.njit.edu/uri/programs/index.php>

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## **NSF fosters the National Innovation Network through new I-Corps Hubs**

[https://www.nsf.gov/news/special\\_reports/announcements/082521.jsp](https://www.nsf.gov/news/special_reports/announcements/082521.jsp)

Building on the success of the decade-long NSF Innovation Corps (I-Corps™) program, the U.S. National Science Foundation today announced the establishment of five I-Corps Hubs that will scale the National Innovation Network and rapidly advance solutions benefiting society. Each I-Corps Hub is funded at \$3 million per year for five years and comprises a regional alliance of at least eight universities. The I-Corps Hubs provide experiential entrepreneurial training to academic researchers across all fields of science and engineering.

The I-Corps Hubs form the new operational backbone of the National Innovation Network, a network of universities, NSF-funded researchers, established entrepreneurs, local and regional entrepreneurial communities, and other federal agencies that helps researchers learn how to translate fundamental research results to the marketplace. The Hubs will work collaboratively to build and sustain a diverse and inclusive innovation ecosystem throughout the U.S.

NJIT received the NSF I-Corps Hub grant as a part of the Northeastern region hub led by the Princeton University. NJIT press release is posted on the [website](#).

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## **NSF-BSF Funding Opportunities**

<https://www.bsf.org.il/funding-opportunities/>

The guidelines for proposal preparation for BSF and NSF-BSF programs are slightly different. Please check our regulations for both BSF regular grants and for NSF-BSF grants on our website:

<https://www.bsf.org.il/funding-opportunities/>

- BSF Regular Research Grants Program (life and health sciences). Deadline for applications is **November 17, 2021**. The website is now open for submission. The regulations for proposal submission under this program are found [here](#).

These following NSF-BSF programs have deadlines as specified:

- NSF-BSF program in **Mathematical Biology**. Deadline for application by the U.S. partner to the NSF is September 6, 2021 and by the Israeli partner to the BSF is September 12, 2021. Call for Proposals can be found [here](#).
- NSF-BSF programs in **Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science (SCH)**. Deadline for application by the U.S. partner

to the NSF is November 10, 2021 and by the Israeli partner to the BSF is November 16, 2021. Call for Proposals can be found [here](#).

- NSF-BSF programs in **Computational Neuroscience (CRCNS)**. Deadline for application by the U.S. partner to the NSF is November 23, 2021 and by the Israeli partner to the BSF is November 29, 2021. Call for Proposals can be found [here](#).

The following NSF-BSF programs have no deadlines and are open for submission throughout the year:

- NSF-BSF programs in Computing and Communication Foundations (CCF) are open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF programs in Computer and Network Systems (CNS) are open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF programs in Information and Intelligent Systems (IIS) are open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF programs in Chemical, Bioengineering, Environmental, and Transport Systems are open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF programs in Materials are open to receive applications anytime throughout the year, starting October 15<sup>th</sup>. Call for Proposals can be found [here](#).
- NSF-BSF program in Electrical, Communications and Cyber Systems is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in the Civil, Mechanical and Manufacturing Innovation (CMMI) division is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Earth Sciences is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Atmospheric and Geospace Sciences is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Cyber Security is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Marine Geology and Geophysics is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Biological Oceanography is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Molecular and Cellular Biosciences is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Integrative Organismal Systems (IOS) is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).
- NSF-BSF program in Environmental Biology (DEB) is open to receive applications anytime throughout the year. Call for Proposals can be found [here](#).

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### [Grant Opportunity Alerts](#)

Keywords and Areas Included in the Grant Opportunity Alert Section Below

**[NSF: Ecology and Evolution of Infectious Diseases \(EEID\); Reproducible Cells and Organoids via Directed-Differentiation Encoding \(RECODE\); NSF-Simons Collaboration on a National Institute for](#)**

Theory and Mathematics in Biology (NITMB) Research Experiences for Teachers (RET) in Engineering and Computer Science; NSF Earth Sciences Postdoctoral Fellowships (EAR-PF))

**NIH: Cancer Research Education Grants Program - Research Experiences (R25); Autism Centers of Excellence: Networks (R01);** Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Postdoctoral Career Transition Award to Promote Diversity (K99/R00)

**Department of Defense/US Army/DARPA/ONR: Reimagining Protein Manufacturing (RPM);** FY2022 Vannevar Bush Faculty Fellowship (VBFF) Program; Science, Innovation and Technology Partnership Intermediary Agreement; Defense Sciences Office Office-wide; Research Interests of the Air Force Office of Scientific Research

**Department of Transportation: DDETFP Transportation Fellowship Program;** High Priority Program – Innovative Technology Deployment (HP-ITD)

**Department of Agriculture: Farm of the Future**

**Department of Labor: Workforce System Technical Assistance Collaborative**

**Department of Commerce/EDA: FY 2021 STEM Talent Challenge Program;** American Rescue Plan Act (ARPA) Statewide Planning, Research, and Networks; Climate Program Office FY2022; FY2021 to FY2023 NOAA Broad Agency Announcement (BAA)

**EPA: Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet;** FY22 Brownfields Job Training Grants; Water Innovation, Science, Engagement to Advance Water Reuse

**Department of Energy: FY 2022 SBIR/STTR Phase I;** FY2022 Research Opportunities in High Energy Physics; Advanced Manufacturing Office Multi-Topic FOA

**NASA: ROSES 2021: Terrestrial Ecology;** ROSES 2021: Heliophysics Living with a Star Infrastructure; ROSES 2021: Living With a Star Strategic Capability

**National Endowment of Humanities: Summer Stipends;** Humanities Connections

**Private Foundations: Sony Research Award Program**

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### **Recent Research Grant and Contract Awards**

Congratulations to faculty and staff on receiving research grant and contract awards!

**PI:** Edward Dreizin (PI)

**Department:** Center of Materials for Advanced Energetics, Chemical and Material Engineering

**Grant/Contract Project Title:** Additively manufactured energetic components with high solids loading

**Funding Agency:** US Army/ Advanced Technology International

**Duration:** 01/30/20-03/20/23

**PI:** James Geller (PI)

**Department:** Computer Science

**Grant/Contract Project Title:** Applying Student Knowledge for Success in Cybersecurity and Data Science

**Funding Agency:** NSF

**Duration:** 10/15/21-09/30/26

**PI:** Ju Jing (PI), Wenda Cao (Co-PI) and Satoshi Inoue (Co-PI)

**Department:** Center for Solar Terrestrial Research

**Grant/Contract Project Title:** Investigation of Active Region Evolution Leading to Solar Eruptions Using High Resolution Observations and MHD Simulations  
**Funding Agency:** NASA  
**Duration:** 09/01/21-08/31/24

**PI:** Wenda Cao (PI) and Vasyl Yurchyshyn (Co-PI)  
**Department:** Center for Solar Terrestrial Research  
**Grant/Contract Project Title:** Advancing Spicule Physics with High Resolution Data: DKIST First Science  
**Funding Agency:** NSF  
**Duration:** 09/01/21-08/31/22

**PI:** Monique P. Hutchinson (PI)  
**Department:** Pre-College Programs  
**Grant/Contract Project Title:** Upward Bound  
**Funding Agency:** US Department of Education  
**Duration:** 09/01/21-08/31/22

**PI:** Monique P. Hutchinson (PI)  
**Department:** Pre-College Programs  
**Grant/Contract Project Title:** Upward Bound 2  
**Funding Agency:** US Department of Education  
**Duration:** 09/01/21-08/31/22

**PI:** Vivek Kumar (PI)  
**Department:** Biomedical Engineering  
**Grant/Contract Project Title:** A Novel Expandable Endodontic Biomaterial  
**Funding Agency:** NIH/New Jersey Alliance for Clinical and Translational Science  
**Duration:** 07/01/21-06/30/22

**PI:** Hyomin Kim (PI) and Gareth Perry (Co-PI)  
**Department:** Center for Solar Terrestrial Research  
**Grant/Contract Project Title:** Collaborative Research: Investigation of Deep Polar Cap Dynamics Using an Autonomous Instrument Network  
**Funding Agency:** NSF  
**Duration:** 09/01/21-8/31/26

**PI:** Xiaoyang Xu (PI)  
**Department:** Chemical and Material Engineering  
**Grant/Contract Project Title:** Therapeutic Development of Patient Cell-derived Exosomes for Effective CVD Treatment  
**Funding Agency:** NIH/New Jersey Alliance for Clinical and Translational Science  
**Duration:** 07/01/21-06/30/22

**PI:** Zhi Wei (PI)  
**Department:** Computer Science  
**Grant/Contract Project Title:** Deep Learning Methods for Identifying Copy Number  
**Funding Agency:** NIH/New Jersey Alliance for Clinical and Translational Science

**Duration:** 07/01/21-06/30/22

**PI:** Bharat Biswal (PI)

**Department:** Biomedical Engineering

**Grant/Contract Project Title:** Investigating tissue-specific functional maps and its correlation with cognitive domains in Alzheimer's Disease

**Funding Agency:** NIH/New Jersey Alliance for Clinical and Translational Science

**Duration:** 07/01/21-06/30/22

**PI:** Zhi Wei (PI)

**Department:** Computer Science

**Grant/Contract Project Title:** Bioinformatics Analysis

**Funding Agency:** University of Pennsylvania

**Duration:** 05/01/19-06/30/22

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### [In the News...](#)

(National and Federal News Related to Research Funding and Grant Opportunities)

**Energy Awards \$54 Million in Microelectronics Grants:** The Department of Energy has awarded \$54 million in grant money to ten microelectronics projects led by its national laboratories.

[Announced Wednesday](#), the funding is geared toward research efforts that could increase energy efficiency and functionality of microelectronics and subsequently stimulate innovation nationwide. The funding further aims to push microelectronics through challenges the technology faces keeping pace with Moore's Law—the continued shrinking of microelectronics and processing devices—as energy usage required to make continually smaller devices has not decreased at the same rate. More information is posted on the [NextGov website](#).

**White House Announcements to Focus on Advancing Cybersecurity Talent:** Building a talented cybersecurity workforce and improving the security of foundational technology will be central to a set of concrete steps the government and leading private companies will commit to taking following a meeting at the White House today, according to a senior administration official. President Joe Biden and members of his national security team and Cabinet will meet with top executives from companies representing crucial critical industry sectors—technology, finance, energy, water and insurance—as well as relevant educational institutions to discuss collective action to improve cybersecurity. More information is posted on the [NextGov website](#).

**Senate Passes Bipartisan Infrastructure Bill and Partisan Budget Resolution:** Senate passing a \$1.2 trillion bipartisan infrastructure bill, which has been hailed as major legislative milestone following years of more talk than action; 19 Republicans joined all Democrats in supporting its passage. Immediately after, Senate Majority Leader Chuck Schumer (D-NY) pivoted to a budget resolution that advances a broader \$3.5 trillion “human infrastructure” package that only has the support of Senate Democrats. If enacted, the \$5 trillion in investments would represent the biggest increase in spending since World War II. Senate Budget Committee Chairman Bernie Sanders released the following documents to help guide the process:

- [Text of the FY22 Budget Resolution](#)
- [One Page Summary of the FY22 Budget Resolution](#)
- [A Detailed Summary of the Recommended Reconciliation Instructions for Committees Included in the FY22 Budget Resolution](#)

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## [Webinar and Events](#)

### **Event: Summer 2021: IRES Virtual Office Hours**

**Sponsor: NSF**

**When: August 30, 2021 11:30 AM to 12:30 PM; September 6, 2021 11:30 AM to 12:30 PM; September 13, 2021 11:30 AM to 12:30 PM**

**Website:** [https://www.nsf.gov/events/event\\_summ.jsp?cntn\\_id=303056&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=303056&org=NSF)

**Brief Description:** The IRES Program Team is hosting a series of Virtual Office Hours aimed at giving potential PIs an opportunity to ask questions. We will be holding one session per week for 9 weeks, starting July 19 and ending on September 13, during which any questions about the program can be asked and discussed. Session dates and times are outlined below. Please feel free to attend the session which best fits your schedule.

**To Join the Webinar:** Session zoom link is the same for all session: <https://nsf.zoomgov.com/j/1609964836?pwd=VXpGRtBpZXlxY0hYNGdFWVlyUWp1Zz09>

### **Event: FCW Summit IT Modernization Virtual Event**

**Sponsor: FCW**

**When: October 5, 2021; 9:00 AM to 5.00 PM**

**Website:** <https://fcw.com/modernization>

**Brief Description:** Although it got an encouraging \$1 billion funding shot in the arm from the American Rescue Plan Act in early 2020, the effort to modernize and transform an aging infrastructure remains a complicated task that takes coordination, executive buy-in and detailed security and data strategies to make it work. The \$1 billion set aside for the Technology Modernization Fund in the ARP smooths some modernization budgeting issues for agencies, which have been struggling to deal with high-profile hacks of federal IT in the past year, more widely-dispersed workforces and increasing customer service demands on federal systems. This FCW Summit will discuss new policies and guidance that will govern these changes, as well as technology advances as data shifts to hybrid cloud architectures. In addition, agencies that are well into their modernization journey will share lessons learned that can help others avoid mistakes and speed the process.

**To Join the Webinar:** Register at

<https://na.eventscloud.com/ereg/newreg.php?eventid=617173&reference=EM2>

### **Event: EHR Townhall - Data Science in Education**

**Sponsor: NSF**

**When: October 8, 2021 310.00 AM to 3.45 PM**

**Website:** [https://www.nsf.gov/events/event\\_summ.jsp?cntn\\_id=303129&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=303129&org=NSF)

**Brief Description:** The National Science Foundation's Directorate for Education and Human Resources (EHR) invites you to participate in a town hall meeting to stimulate a national conversation on the topic of Data Science in Education. Each day, there is more accessible data than there was the day before, and a professional skillset is emerging to meet the needs of a dynamically growing industry. This town hall



meeting will explore Data Science and its impact across all levels of education from K-12 through higher education, including community colleges, minority serving institutions, and graduate institutions.

With speakers and open discussions, we will explore:

- Data Science research across disciplines and fields
- Ethical practices and approaches to Data Science
- Teaching and Learning Data Science
- Justice, Equity, Diversity, and Inclusion in a 'Data Science for All' movement

The outcomes of this meeting will include a white paper that will capture the themes from these topics which can be used to inform future work in the field.

**To Join the Webinar:** Please pre-register at:

<https://ida-org.zoomgov.com/meeting/register/vJIscumhpi4tE8JYy5Zv5xG7nh2TgLznaTg>

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## [Grant Opportunities](#)

### [National Science Foundation](#)

**Grant Program: Ecology and Evolution of Infectious Diseases (EEID)**

**Agency: National Science Foundation NSF 21-609**

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21609/nsf21609.htm>

**Brief Description:** The multi-agency Ecology and Evolution of Infectious Diseases program supports research on the ecological, evolutionary, organismal, and social drivers that influence the transmission dynamics of infectious diseases. The central theme of submitted projects must be the quantitative or computational understanding of pathogen transmission dynamics. The intent is discovery of principles of infectious disease (re)emergence and transmission and testing mathematical or computational models that elucidate infectious disease systems. Projects should be broad, interdisciplinary efforts that go beyond the scope of typical studies. They should focus on the determinants and interactions of (re)emergence and transmission among any host species, including but not limited to humans, non-human animals, and/or plants. This includes, for example, the spread of pathogens; the influence of environmental factors such as climate; the population dynamics and genetics of vectors and reservoir species or hosts; how the physiology or behavior of the pathogen, vector, or host species biology affects transmission dynamics; the feedback between ecological transmission and evolutionary dynamics; and the cultural, social, behavioral, and economic dimensions of pathogen transmission and disease. Research may be on zoonotic, environmentally-borne, vector-borne, enteric, or respiratory pathogens of either terrestrial or aquatic systems and organisms, including diseases of animals and plants, at any scale from specific pathogens to inclusive environmental systems. Proposals for research on disease systems of public health concern to Low- or Middle-Income Countries (LMICs) are strongly encouraged, as are disease systems of concern in agricultural systems. Investigators are encouraged to develop the appropriate multidisciplinary team, including for example, anthropologists, modelers, ecologists, bioinformaticians, genomics researchers, social scientists, economists, oceanographers, mathematical scientists, behaviorists, epidemiologists, evolutionary biologists, entomologists, immunologists, parasitologists, microbiologists, bacteriologists, virologists, pathologists or veterinarians, with the goal of integrating knowledge across disciplines to enhance our ability to predict and control infectious diseases.

**Awards:** Standard Grant or Continuing Grant; Anticipated Funding Amount: \$27,600,000

**Letters of Intent:** Not required

**Full Proposal Submission Deadline:** November 24, 2021; November 16, 2022



**Contacts:** Samuel M. Scheiner, Program Director, NSF/BIO, telephone: (703) 292-7175, email: [sscheine@nsf.gov](mailto:sscheine@nsf.gov)

- Christine Jessup, Program Director, NIH/FIC, telephone: (301) 496-1653, fax: (301) 402-0779, email: [christine.jessup@nih.gov](mailto:christine.jessup@nih.gov)
  - Katharina Dittmar, Program Director, NSF/BIO, telephone: (703) 292-7799, email [kdittmar@nsf.gov](mailto:kdittmar@nsf.gov)
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**Grant Program: Reproducible Cells and Organoids via Directed-Differentiation Encoding (RECODE)**

**Agency: National Science Foundation NSF 21-608**

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21608/nsf21608.htm>

**Brief Description:** The National Science Foundation (NSF) Divisions of Chemical, Bioengineering, Environmental and Transport Systems (CBET), Integrative and Organismal Systems (IOS), Molecular and Cellular Biosciences (MCB), and Civil, Mechanical, and Manufacturing Innovation (CMMI) seek proposals that elucidate mechanisms of, and develop strategies to, direct the differentiation of undifferentiated cells into mature, functional cells or organoids. Projects responsive to this solicitation must aim to establish a robustly validated and reproducible set of differentiation design rules, mechanistic models, real-time sensing, control, and quality assurance methods, and integrate them into a workable differentiation strategy. They must also deepen our fundamental understanding of how cells develop and differentiate, to provide insights into mechanisms, molecular machinery, dynamics, and the interplay between cells and their environment, such as cell-cell/cell-microbe and cell-extracellular matrix (ECM) interactions and use this understanding to manipulate cells purposefully. Investigators can choose any undifferentiated cell type from any animal species, including human cell types, as a starting point and choose any appropriate functional product (cell, organoid, etc.) with real-world relevance. The use of non-model systems (e.g., non-human or non-murine systems) is encouraged as is the exploration of non-medical targets. Functional products can span a diverse range of systems (cardiovascular, nervous, immune, etc.). The RECODE program aligns with NSF's commitment to the development of capabilities in biotechnology that advance the U.S. Bioeconomy.

Topics that reside clearly within the boundaries of a single NSF core program are outside of the scope of this solicitation. Specifically, projects centered around the exploration of individual stages/mechanisms of differentiation in isolation or production of engineered cells, tissues, organ-on-a-chip systems, or organoids without developing an understanding of differentiation rules are not responsive to this solicitation.

**Awards:** Standard Grant or Continuing Grant; Anticipated Funding Amount: \$6,100,000 to \$11,100,000

**Letters of Intent:** Not required

**Preliminary Proposal Due Date(s) (required):** November 22, 2021

**Full Proposal Submission Deadline:** March 31, 2022

**Contacts:** Stephanie George, ENG/CBET, telephone: (703) 292-7825, email: [stgeorge@nsf.gov](mailto:stgeorge@nsf.gov)

- Steven L. Klein, BIO/IOS, telephone: (703) 292-7122, email: [sklein@nsf.gov](mailto:sklein@nsf.gov)
  - Laurel C. Kuxhaus, ENG/CMMI, telephone: (703) 292-4465, email: [lkuxhaus@nsf.gov](mailto:lkuxhaus@nsf.gov)
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**Grant Program: NSF-Simons Collaboration on a National Institute for Theory and Mathematics in Biology (NITMB)**

**Agency: National Science Foundation NSF 21-607**

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21607/nsf21607.htm>

**Brief Description:** The purpose of the NSF-Simons Collaboration on a National Institute for Theory and Mathematics in Biology (NITMB) is to support a research institute to enable innovative research at the intersection of mathematical and biological sciences to facilitate new developments of biology-inspired mathematical theories, methodologies, and innovative modeling approaches to advance the understanding of challenging biological problems. The institute should promote interdisciplinary education and workforce training between these two disciplines. The National Science Foundation Directorates for Mathematical and Physical Sciences (NSF/MPS) and for Biological Sciences (NSF/BIO) and the Simons Foundation Division of Mathematics and Physical Sciences (SF/MPS) shall jointly sponsor a new research institute to facilitate collaborations among groups of mathematicians (including statisticians and computational scientists) and biologists. Research activities conducted at the institute should be focused on emerging and important topics at the interface of the mathematical and biological sciences, with the expectation to develop new mathematical methodologies inspired by biological problems. The institute should primarily focus on advances in theory and mathematics that are motivated by and applicable to the analysis of complex biological systems. The institute will conduct interdisciplinary education and training through research involvement of doctoral degree recipients and graduate students from across this multi-disciplinary spectrum. The institute is also expected to conduct convening activities, including short-term and/or long-term visitor programs, workshops, and/or outreach activities. Diversity, equity, inclusion, and accessibility are expected to be core values of the institute and should be reflected in its research, education, outreach programs, and its leadership. The institute will serve as a national resource that aims to advance research in the mathematical and biological sciences through programs supporting discovery and knowledge dissemination in mathematical biology and enhancing connections to related fields.

**Awards:** Cooperative Agreement; Anticipated Funding Amount: \$50,000,000

**Letters of Intent:** Not required

**Preliminary Proposal Due Date(s) (required):** December 01, 2021

**Full Proposal Submission Deadline:** July 18, 2022

**Contacts:** Zhilan J. Feng, National Science Foundation, telephone: (703) 292-7523, email: [NITMB@nsf.gov](mailto:NITMB@nsf.gov)

- Jaroslaw Majewski, National Science Foundation, telephone: (703) 292-7278, email: [NITMB@nsf.gov](mailto:NITMB@nsf.gov)
- Sridhar Raghavachari, National Science Foundation, telephone: (703) 292-4845, email: [NITMB@nsf.gov](mailto:NITMB@nsf.gov)

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**Grant Program: Research Experiences for Teachers (RET) in Engineering and Computer Science**  
**Agency: National Science Foundation NSF 21-606**

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21606/nsf21606.htm>

**Brief Description:** The Research Experiences for Teachers (RET) in Engineering and Computer Science program supports authentic summer research experiences for K-14 educators to foster long-term collaborations between universities, community colleges, school districts, and industry partners. With this solicitation, the Directorates for Engineering (ENG) and Computer and Information Science and Engineering (CISE) focus on a reciprocal exchange of expertise between K-14 educators and research faculty and (when applicable) industry mentors. K-14 educators will enhance their scientific disciplinary knowledge in engineering or computer science and translate their research experiences into classroom activities and curricula to broaden their students' awareness of and participation in computing and engineering pathways. At the same time, the hosting research faculty will deepen their understanding of classroom practices, current curricula, pedagogy, and K-14 educational environments.

**Awards:** Standard Grant or Continuing Grant; Anticipated Funding Amount: \$5,800,000

**Letters of Intent:** Not required

**Full Proposal Submission Deadline:** November 16, 2021; October 12, 2022

**Contacts:** Amelia S. Greer, ENG/EEC, telephone: (703) 292-2552, email: [agreer@nsf.gov](mailto:agreer@nsf.gov)

- Allyson Kennedy, CISE/CNS, telephone: (703) 292-8950, email: [aykenned@nsf.gov](mailto:aykenned@nsf.gov)
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**Grant Program: NSF Earth Sciences Postdoctoral Fellowships (EAR-PF))**

**Agency: National Science Foundation NSF 21-605**

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21605/nsf21605.htm>

**Brief Description:** The Division of Earth Sciences (EAR) awards Postdoctoral Fellowships to recent recipients of doctoral degrees to conduct an integrated program of independent research and professional development. Fellowship proposals must address scientific questions within the scope of EAR disciplinary programs and must align with the overall theme for the postdoctoral program. Fellowship proposals that address questions at the intersections of several EAR disciplinary programs, such as interdisciplinary critical zone (CZ) science or topics related to Cooperative Studies of Earth's Deep Interior (CSEDI), are also appropriate. The program supports researchers for a period of up to two years with fellowships that can be taken to the institution of their choice (including institutions abroad). The program is intended to recognize beginning investigators of significant potential, and provide them with research experience, mentorship, and training that will establish them in leadership positions in the Earth Sciences community. Because the fellowships are offered only to postdoctoral scientists early in their career, doctoral advisors are encouraged to discuss the availability of EAR postdoctoral fellowships with their graduate students early in their doctoral programs. Fellowships are awards to individuals, not institutions, and are administered by the Fellows. EAR has made it a priority to address challenges in creating an inclusive geoscience discipline through activities that increase belonging, accessibility, justice, equity, diversity, and inclusion (BAJEDI). Proposers are encouraged to explicitly address this particular priority in their proposed activities. Applicants who are women, veterans, persons with disabilities, and underrepresented minorities in science, technology, engineering, and mathematics (STEM), or who have attended two-year colleges and minority-serving institutions for undergraduate or graduate school, or plan to conduct their fellowship activities at one of these institutions (e.g. Historically Black Colleges and Universities, Tribal Colleges and Universities, Hispanic Serving Institutions, Alaska Native Serving Institutions, and Hawaiian Native and Pacific Islander Serving Institutions) are especially encouraged to apply.

**Awards:** Fellowship; Anticipated Funding Amount: \$2,160,000

**Letters of Intent:** Not required

**Full Proposal Submission Deadline:** November 03, 2021; October 26, 2022

**Contacts:** Aisha R. Morris, telephone: (703) 292-7081, email: [earpf@nsf.gov](mailto:earpf@nsf.gov)

- Jennifer M. Wenner, telephone: (703) 292-8550, email: [earpf@nsf.gov](mailto:earpf@nsf.gov)
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**Grant Program: Competition for the Management of Operations and Maintenance of the National Ecological Observatory Network (NEON)**

**Agency: National Science Foundation NSF 21-603**

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21603/nsf21603.htm>

**Brief Description:** NSF solicits proposals to manage the operations and maintenance of the National Ecological Observatory Network (NEON), an NSF-funded major facility project. NEON comprises terrestrial, aquatic, atmospheric, and remote sensing measurement infrastructure and cyberinfrastructure that deliver standardized, calibrated data to the scientific community through an openly accessible data portal. NEON infrastructure is geographically distributed across the United States, including Alaska, Hawaii and Puerto Rico, and will generate data for ecological research over a 30-year period. NEON is

designed to enable the research community to ask and address their own questions on a regional to continental scale around the environmental challenges identified as relevant to understanding the drivers and impacts of climate change, land-use change and invasive species patterns on the biosphere. The NSF NEON program, which is part of the Centers, Facilities and Additional Research Infrastructure (CFARI) Cluster in the Division of Biological Infrastructure, manages the NEON award in collaboration with the NSF Large Facilities Office and the NSF Division of Acquisition and Cooperative Support.

**Awards:** Cooperative Agreement; Anticipated Funding Amount: \$69,000,000

**Limit on Number of Proposals per Organization: 1**

**Letters of Intent:** Required by October 01, 2021

**Full Proposal Submission Deadline:** January 31, 2022

**Contacts:** Roland P. Roberts, Cognizant Program Officer, telephone: (703) 292-7884, email: [neon-bot@nsf.gov](mailto:neon-bot@nsf.gov)

- Montona Futrell-Griggs, Staff Associate, telephone: (703) 292-7162, email: [neon-bot@nsf.gov](mailto:neon-bot@nsf.gov)
- Charlotte Roehm, Program Officer, telephone: (703) 292-8470, email: [neon-bot@nsf.gov](mailto:neon-bot@nsf.gov)

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## [National Institutes of Health](#)

**Grant Program: Cancer Research Education Grants Program - Research Experiences (R25 Clinical Trial Not Allowed)**

**Agency: National Institutes of Health PAR-21-279**

**Website:** <https://grants.nih.gov/grants/guide/pa-files/PAR-21-279.html>

**Brief Description:** Applications are encouraged that propose innovative, state-of-the-art programs that address the cause, diagnosis, prevention, or treatment of cancer, rehabilitation from cancer, or the continuing care of cancer patients and the families of cancer patients, in order to advance the [NCI mission](#). To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on:

- **Research Experiences:** Proposed research experiences should involve an innovative approach to provide hands-on exposure to cancer research for a full-time (40 hours per week) period of 8 to 15 weeks in order to stimulate the interest and advance the knowledge base of participants to consider further education and training for future careers as cancer researchers. Ideally, the research experiences should provide opportunities for the participants to present their work at professional venues and/or earn co-authorship on peer-reviewed publications.
- Complementary educational activities, such as seminars, journal clubs, grand rounds, field trips, career development presentations, etc., are encouraged as part of the research experiences program, but should not exceed more than 8 hours per week (20% of the full-time effort) on average.
- The proposed programs should provide research experiences and related educational activities that are not available through formal NIH training mechanisms.
- It is expected that each participant will be integrated into the research setting of his/her assigned faculty mentor who will have direct oversight responsibility for the participant, which will include regular, in-person interaction.
- R25 programs that propose at least 8 weeks, but fewer than 15 weeks, of full-time research experiences are allowed to request continued part-time support for some or all of the participants to continue to work on their research projects, up to the equivalent of 15 weeks of full-time participation, as long as the entire research experience is completed within a 12-month period.

- It is expected that most individuals will only receive support one time to participate in the R25 research experiences program. However, at the discretion of the PD(s)/PI(s), up to 20% of the participants may receive support to participate a second time, if they play a peer-to-peer mentor role for the new participants.

**Award:** The maximum budget is \$300,000 direct costs/year for a new application or a resubmission of a new application. The maximum budget is \$400,000 direct costs/year for a renewal application or a resubmission of a renewal application.

**Letter of Intent:** Not required.

**Proposal Deadline:** [Standard dates](#) apply. The first standard application due date for this FOA is September 25, 2021.

All applications are due by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on the listed date(s).

Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

**Contact:** Sergey Radaev, Ph.D., National Cancer Institute (NCI), Telephone: 240-276-5630  
Email: [sradaev@mail.nih.gov](mailto:sradaev@mail.nih.gov)

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### **Grant Program: Autism Centers of Excellence: Networks (R01 Clinical Trial Optional)**

**Agency:** National Institutes of Health RFA-HD-22-007

**Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-HD-22-007.html>

**Brief Description:** The intent is to fund research that will build on the progress and momentum of the past 13 years of ACE research and continue to incorporate cutting-edge technologies and methods. Applications focusing on rare genetic disorders will be considered responsive to this FOA only if the proposed research will lead to a better understanding of ASD, and participants with a confirmed diagnosis of autism using standard clinical assessments are the subject of clinical studies.

Applications must include a Plan for Enhancing Diverse Perspectives (PEDP) submitted as Other Project Information as an attachment (see Section IV). The PEDP will be assessed as part of the scientific and technical peer review evaluation, as well as considered among programmatic matters with respect to funding decisions. Areas of interest include studies focusing on:

Understudied subgroups within the ASD population (e.g., older adults and aging, minimally verbal individuals) or those with comorbid conditions (e.g., intellectual disabilities, epilepsy, sensorimotor, autonomic, or gastrointestinal issues).

Developing new or validating existing and commonly used measures or tools in ASD research for diverse subgroups within the ASD population (e.g., transition-age youth and adults, previously undiagnosed adults, those with intellectual disabilities, under-represented minorities, and economically disadvantaged groups).

Studies to investigate the biologic mechanisms underlying gene-environment interplay, incorporating information from unbiased, well-powered human studies of genetic and nongenetic (e.g. environmental and other modifiable exposures) risk and protective factors in the etiology or development of ASD.

**Award:** Applications may request up to \$1.5 million in direct costs per year (excluding subaward F & A costs) and need to reflect the actual needs of the proposed project.

**Letter of Intent:** 30 days prior to the application due date

**Proposal Deadline:** November 09, 2021

**Contact:** Alice Kau, PhD; Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD); Telephone: 301-496-1385; Email: [kaua@mail.nih.gov](mailto:kaua@mail.nih.gov)

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**Grant Program: Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Postdoctoral Career Transition Award to Promote Diversity (K99/R00 Independent Clinical Trial Not Allowed)**

**Agency:** National Institutes of Health PAR-21-271

**Website:** <https://grants.nih.gov/grants/guide/pa-files/PAR-21-271.html>

**Brief Description:** NIH supports individuals at this important transition point through the [K99/R00 program](#); however, the diversity of K99/R00 awardees not reflect the demographics of the available talent pool of well-trained Ph.D. biomedical scientists. For example, for the [Parent K99/R00 funding announcement](#), over 90% of NIGMS K99/R00 grantees have transitioned to independent faculty positions; however, only 7% of applicants have been from racial and ethnic groups historically underrepresented, and only 33% have been women.

NIH has undertaken a number of efforts to facilitate the [career transition of postdoctoral scientists from diverse groups](#) into the professoriate, including the [Institutional Research and Academic Career Development Awards \(IRACDA\)](#), research supplements to [promote diversity in health-related research](#) and [re-entry into biomedical research careers](#). Additionally, the NIH Common Fund supports the [National Research Mentoring Network \(NRMN\)](#), a nationwide consortium of biomedical professionals and institutions collaborating to provide biomedical trainees from all backgrounds and at all levels with evidence-informed mentorship and professional development programming. These efforts have supported the development of highly trained biomedical scientists from diverse backgrounds who have the necessary knowledge and skills to pursue independent careers in the biomedical research workforce. NIH also recognizes that efforts aimed at achieving scientific workforce diversity are hindered by organizational structures, systems, and policies that perpetuate exclusion and inequity based on race and gender. Organizational structures, policies, practices, and social norms that perpetuate bias, prejudice, discrimination, and racism also limit the pace of scientific progress. Therefore, there remains a compelling need to develop additional strategies to promote transitions to independent, research-intensive faculty positions for scientists from diverse backgrounds.

**Award:** Award budgets are composed of salary and other program-related expenses.

**Letter of Intent:** Not required.

**Proposal Deadline:** The first due date for New applications is October 27<sup>th</sup>, 2021 by 5:00 PM local time. The first due date for Resubmission applications is November 12, 2021 by 5:00 PM local time.

[Standard dates](#) apply, for all subsequent receipt dates, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

**Contact:** Kenneth D. Gibbs, Jr., Ph.D., MPH; National Institute of General Medical Sciences (NIGMS)  
Email: [kenneth.gibbs@nih.gov](mailto:kenneth.gibbs@nih.gov)

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**[Department of Defense/US Army/DARPA/ONR/AFOSR](#)**

**Grant Program: Reimagining Protein Manufacturing (RPM)**

**Agency:** Department of Defense DARPA - Biological Technologies Office HR001121S0038

**RFP Website:** <https://sam.gov/opp/9711cee39a984d57ba681390bc1a4564/view>

**Brief Description:** The Reimagining Protein Manufacturing (RPM) program aims to ensure timely DoD access to critical medical countermeasures (MCMs) by establishing the foundational technologies needed

for fully distributed, on-demand manufacturing of protein-based MCMs and associated raw materials. To achieve this goal, RPM will develop technologies to enable immediate synthesis (lead time approximately 24 hours) of bioactive protein MCMs and raw material production enzymes at a yield corresponding to > 500 doses per week. This technology will allow the DoD to rapidly secure access to both therapeutic proteins and enzymes needed for nucleic acid-based MCM synthesis, and reduce reliance on complex supply chains.

**Awards:** Multiple awards

**Letter of Intent:** Please see below.

**Proposal Submission Deadline:** November 16, 2021 See Full Announcement for details.

**Contact:** BAA Coordinator [RPM@darpa.mil](mailto:RPM@darpa.mil)

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**Grant Program: FY2022 Vannevar Bush Faculty Fellowship (VBFF) Program**

**Agency:** Department of Defense N00014-21-S-F007

**RFP Website:** <https://www.grants.gov/web/grants/view-opportunity.html?oppId=335368>

**Brief Description:** The objectives of the program are to: • Support unclassified basic scientific and engineering research that could be the foundation for future revolutionary new capabilities for DoD. • Educate and train student and post-doctoral researchers for the defense workforce. • Foster long-term relationships between university researchers and the DoD. • Familiarize university researchers and their students with DoD's current and projected future challenges. • Increase the number of talented technical experts that DoD can call upon. This FOA is for single investigator grant proposals for basic research. All awardees will receive a research grant and the title of VBFF Fellow. VBFF Fellows and their students are provided with opportunities that are designed to enhance their understanding of DoD's critical research needs and interact with DoD senior Science and Technology (S&T) program leaders. Fellows and their students are expected to attend VBFF activities scheduled throughout the year. These activities may include an orientation meeting, site visits to DoD labs, technical workshops, and an annual meeting to report the progress of VBFF-sponsored research. VBFF Fellows may also be encouraged to serve as members of DoD advisory boards, panels, or groups. For a list of current and past VBFF or NSSEFF Fellows, refer to: <https://basicresearch.defense.gov/Programs/Vannevar-Bush-Faculty-Fellowship/>.

**Awards:** Grants up to \$ 3 million. Total Amount of Funding Available: \$24 million to \$30 million.

**Letter of Intent:** Please see below.

**Proposal Submission Deadline:** White Paper Inquiries and Questions 01 October 2021 White Papers must be received no later than 15 October 2021 (Friday) at 11:59 PM Eastern Time Full Proposal Inquiries and Questions 21 January 2022 Full Proposals must be received no later than 04 February 2022 (Friday) at 11:59 PM Eastern Time

**Contact:** Reginald G. Williams, PhD Point of Contact Occupation Title: Program Officer Division Title: Warfighter Performance Division Code: 34 Address: 875 North Randolph Street Email Address [Reginald.G.Williams@navy.mil](mailto:Reginald.G.Williams@navy.mil)

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**Grant Program: Science, Innovation and Technology Partnership Intermediary Agreement**

**Agency:** Department of Defense PIA-FOA-21-AFRL-0001

**RFP Website:** <https://www.grants.gov/web/grants/view-opportunity.html?oppId=333566>

**Brief Description:** The Department of Defense (DoD) Air Force Research Laboratory (AFRL) at Kirtland Air Force Base, New Mexico, is seeking innovative applications from interested Recipients to enter into five-year Partnership Intermediary Agreements (PIAs).

The Government seeks to fund the most creative, comprehensive, and impactful innovation-accelerating Recipients that support the DoD mission and can engage with other innovative-accelerating



and entrepreneurially-focused organizations (both public and private). These organizations are critical to the growth of an innovation economy and help accelerate the launch, growth, and scale of businesses, ultimately resulting in the commercialization of new technologies and business models, and development of specialized skills, industries, and technology sectors of jobs in the United States. The Government encourage applicants to create programs and/or projects that bolster Research and Development (R&D) innovation, increase the maturity and market readiness of DoD relevant technologies to prepare them for transfer and commercialization that support DoD needs, through regional engagement, including with other private actors—both for- and non-profit—as well as with educational institutions, small business firms, state and local entities that may provide additional resources.

**Awards:** PIA up to \$55 million. Total Amount of Funding Available: \$75 million.

**Letter of Intent:** Please contact the program director to discuss.

**Proposal Submission Deadline:** 21 September 2021, 02:00 PM MST

**Contact:** Sara Telano, AFRL/RVKE, Contracting Specialist [sara.telano@us.af.mil](mailto:sara.telano@us.af.mil) Karina Zubiante, AFRL/RVKE, Contracting Specialist [karina.zubiate@spaceforce.mil](mailto:karina.zubiate@spaceforce.mil)

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**Grant Program: Defense Sciences Office Office-wide**

**Agency: Department of Defense DARPA HR001121S0032**

**RFP Website:** <https://sam.gov/opp/f08ce40db929467ab7a8cdac02345b70/view>

**Brief Description:** The mission of the Defense Advanced Research Projects Agency (DARPA) Defense Sciences Office (DSO) is to identify and create the next generation of scientific discovery by pursuing high-risk, high-payoff research initiatives across a broad spectrum of science and engineering disciplines and transforming these initiatives into disruptive technologies for U.S. national security. In support of this mission, the DSO Office-wide BAA invites proposers to submit innovative basic or applied research concepts or studies and analysis proposals that address one or more of the following technical thrust areas: (1) Frontiers in Math, Computation and Design, (2) Limits of Sensing and Sensors, (3) Complex Social Systems, and (4) Anticipating Surprise. Each of these thrust areas is described below and includes a list of example research topics that highlight several (but not all) potential areas of interest. Proposals must investigate innovative approaches that enable revolutionary advances. DSO is explicitly not interested in approaches or technologies that primarily result in evolutionary improvements.

**Awards:** DARPA anticipates multiple awards.

**Letter of Intent:** Please see below.

**Proposal Submission Deadline:** Executive Summary Due Date and Time: Executive Summaries may be submitted on a rolling basis until Executive Summary Due Date: June 10, 2022, 4:00 p.m. o Proposal Abstract Due Date and Time: Abstracts may be submitted on a rolling basis until June 10, 2022, 4:00 p.m. o FAQ Submission Deadline: June 2, 2022, 4:00 p.m. See Section VIII.A. o Full Proposal Due Date and Time: Proposals may be submitted on a rolling basis until June 10, 2022, 4:00 p.m.

**Contact:** Technical POC: Phil Root, Deputy Director, DARPA/DSO o BAA Email: [HR001121S0032@darpa.mil](mailto:HR001121S0032@darpa.mil)

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**Grant Program: Research Interests of the Air Force Office of Scientific Research**

**Agency: Department of Defense Air Force Office of Scientific Research FA9550-21-S-0001**

**RFP Website:** <https://www.grants.gov/web/grants/view-opportunity.html?oppId=334084>  
<https://www.afrl.af.mil/AFOSR/>

**Brief Description:** The objective of this portfolio is to develop the fundamental scientific knowledge required to understand the dynamics of complex, heterogeneous and reactive materials for game-changing advancements in munitions and propulsion. The research areas supported by this portfolio therefore seek

to discover, characterize, and reliably predict the fundamental chemistry, physics, hydrodynamics and materials science associated with the high energetics of explosives, solid propellant burning, and structural dynamics of materials subject to shock loading. The overall scope of the research in the portfolio will be accomplished through a balanced mixture of experimental, numerical, and theoretical efforts. The fundamental science of interest to this portfolio is necessary for revolutionary advances in future Air Force and Space Force weapon systems and their propulsion capabilities, including increased energy density, operational efficiency, effect-based optimization, and survivability in harsh environments.

**Awards:** Multiple awards. Available Funding: \$100,000,000

**Letter of Intent:** Please contact the program director.

**Proposal Submission Deadline:** Open until new BAA is posted.

**Contact:** DR. MARTIN J. SCHMIDT, AFOSR/RTA1 Email: [dynamicmaterials@us.af.mil](mailto:dynamicmaterials@us.af.mil) (703) 588-8436; CALVIN D. SCOTT, AFOSR/RBKC Senior Procurement Analyst Email: [afosr.baa@us.af.mil](mailto:afosr.baa@us.af.mil)

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### **Department of Transportation**

**Grant Program: Dwight David Eisenhower Transportation Fellowship Program (DDETFP) Graduate Fellowship**

**Agency: Department of Transportation 693JJ318NF5229-2021**

**Website:** <https://www.grants.gov/web/grants/view-opportunity.html?oppId=335125>

**Brief Description:** The goals of these Grants are to provide DDETFP Graduate Fellowships to 1) attract the Nation's brightest minds to the field of transportation, 2) enhance the careers of transportation professionals by encouraging them to seek advanced degrees, and 3) bring and retain top talent in the transportation industry of the U.S.

Individual students apply for the DDETFP Graduate Fellowship. The FHWA makes awards to the Institution of Higher Education (IHE) ("Recipient") on behalf of the student ("Student Designee"). The IHE must be accredited by a federally-recognized accrediting agency and must be located within the United States or its Territories. If a student is selected to receive a fellowship, the student, their faculty advisor, and the IHE will be responsible for completing and submitting all required paperwork to execute the Agreement. Students must be prepared to submit a copy of their application package and this Notice of Funding Opportunity (NOFO) to their IHE.

**Award:** The FHWA expects approximately \$1 million to be made available for the DDETFP.

**Letter of Intent:** Not Required

**Proposal Deadline:** September 17, 2021 at 5:00pm Eastern Time.

**Contact Information:** Latoya Jones Program Manager Phone 404-562-3641  
[latoya.jones@dot.gov](mailto:latoya.jones@dot.gov)

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### **Department of Agriculture:**

**Grant Program: Farm of the Future**

**Agency: Department of Agriculture USDA-NIFA-OP-008501**

**Website:** <https://nifa.usda.gov/funding-opportunity/farm-future>

**Brief Description:** Farm of the Future is a competitive grant program that will be implemented by USDA NIFA to establish an agricultural test bed and demonstration site. It seeks to launch this rural test bed for precision agriculture, smart automation, data connectivity and transfer, and to demonstrate best practices in climate-smart agriculture, forestry, and animal production systems that enhance sustainability and farm profitability. The test bed will evaluate digital and smart technologies to provide accessible, data-driven solutions that support resilient agricultural and value-added practices.

**Letter of Intent:** Not required

**Awards:** Single grant. Anticipated available funding: \$3,936,000

**Proposal Deadline:** October 15, 2021

**Contact Information:** Contact [grantapplicationquestions@usda.gov](mailto:grantapplicationquestions@usda.gov)

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## [Department of Labor](#)

**Grant Program: Workforce System Technical Assistance Collaborative**

**Agency: Department of Labor FOA-ETA-21-09**

**Website:** <https://www.grants.gov/web/grants/view-opportunity.html?oppId=335390>

**Brief Description:** This Announcement solicits applications to establish and operate a Workforce System Technical Assistance (TA) Collaborative over a 3-year (36-month) period of performance from an anticipated start date of February 2022. The Workforce System TA Collaborative is an entity or consortium of partners that, in close coordination with the U.S. Department of Labor (DOL), will plan, develop and deliver TA to the public workforce system, considered here as primarily Workforce Innovation and Opportunity Act (WIOA) Title I and Wagner-Peyser Act Employment Service grantees and required partners of the one stop delivery system, where TA to a broader range of partners improves WIOA Title I and Wagner-Peyser Act service delivery. The Collaborative will respond to the needs identified by the WIOA Title I and Wagner-Peyser Act grantees and plan and deliver a comprehensive approach to TA, in consultation with DOL, aimed at improving the quality of employment and training services provided to the nation's job seekers and employers. To further the goal of improving public workforce services, the Collaborative will assist grantees in complying with federal requirements and in achieving equity in service delivery and outcomes for people of color and historically marginalized populations, including individuals with disabilities. Note that the term "Collaborative" does not refer to a physical location or center.

**Awards:** Various; Anticipated available funding: \$3,500,000

**Letter of Intent:** Not required

**Proposal Deadline:** November 8, 2021

**Contact Information:** Andrea Hill, Grants Management Specialist; [Hill.Andrea@dol.gov](mailto:Hill.Andrea@dol.gov)

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## [Department of Commerce/EDA](#)

**Grant Program: FY 2021 STEM Talent Challenge Program**

**Agency: U.S. Department of Commerce EDA-HDQ-OIE-2021-2007015**

**Website:** <https://www.eda.gov/OIE/STEM/>

**Brief Description:** The U.S Economic Development Administration’s STEM Talent Challenge **aims to build STEM talent training systems to strengthen regional innovation economies.** The FY21 STEM Talent Challenge will award a total of \$2 million in grants to organizations that are creating and implementing STEM talent development strategies that complement their region’s innovation economy. [View the FY20 STEM Challenge grantees here.](#)

Projects should aim to identify opportunities in high-growth potential sectors, and to expand and empower the innovation economy workforce, including by:

- Engaging regional entrepreneurs, innovators, and the organizations that support them to assess and forecast current and future talent needs and to develop collaborative solutions with work-based programs;
- Building highly skilled talent and connecting it to highly technical opportunities that foster professional development and provide continuing advanced skills training to develop the technical and scientific workforce that regional innovation initiatives need;
- Strengthening collaboration among entrepreneurs, industry leaders and employers, educational organizations, established corporations, economic and/or workforce development organizations, and the public sector to enable better access to skilled workers and to develop demand-driven workforce pipelines for the innovation economy; and
- Placing new employees into immediate job openings with regional employers in need of STEM talent.

**Awards:** Competition applicants may request **up to \$250,000 for implementation** of a 24-month program. A 1:1 funding match is required.

**Letter of Intent:** Contact the program director.

**Proposal Deadline:** October 12, 2021

**Contact Information:** [oiie@eda.gov](mailto:oiie@eda.gov)

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## **Grant Program: FY 2021 American Rescue Plan Act (ARPA) Statewide Planning, Research, and Networks**

**Agency:** U.S. Department of Commerce EDA-HDQ-ARPRN-2021-2006986

**Website:** <https://www.eda.gov/>

<https://www.grants.gov/web/grants/view-opportunity.html?oppId=334728>

**Brief Description:** The ARPA Statewide Planning, Research, and Networks NOFO is part of EDA’s multi-phase effort to respond to the coronavirus pandemic as directed by the American Rescue Plan Act of 2021. Specifically, this NOFO seeks to build regional economies for the future through two primary avenues: a) Statewide Planning and b) Research and Networks.

For Research awards, EDA solicits applications for investments that support research and evaluation projects<sup>2</sup> related to economic recovery from the coronavirus pandemic. EDA will support the development of tools, recommendations, and resources that shape Federal economic development policies and inform economic development decision-making. Awards will provide critical, cutting-edge research and best practices to regional, state, and local practitioners in the economic development field, thereby enhancing understanding and implementation of economic development concepts throughout the country. EDA is specifically interested in research projects that will enable real-time research into EDA’s ARPA programs, especially those related to the new Jobs Challenge, Build Back Better Regional Challenge, Indigenous Communities NOFO, and travel and tourism programs. See also section D.2 for more detail on the evaluation parameters EDA seeks.

**Awards:** Under the American Rescue Plan Act of 2021 (Public Law 117-2), Congress provided EDA with \$3,000,000,000, to remain available until September 30, 2022, to “prevent, prepare for, and respond to coronavirus and for necessary expenses for responding to economic injury as a result of coronavirus.”

Of the funds provided, EDA anticipates awarding \$90,000,000 under this NOFO: \$59,000,000 for Statewide Planning grants and \$31,000,000 for Research and Communities of Practice Challenge awards.  
**Letter of Intent:** Contact the program director.

**Proposal Deadline:** While EDA encourages eligible applicants to submit their applications as soon as possible, EDA strongly advises eligible applicants to submit complete applications no later than October 31, 2021 so that EDA can review and process the application in time to achieve the objectives of the grant program.

**Contact Information:** For applicants interested in the Research component: [research@eda.gov](mailto:research@eda.gov)

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**Grant Program: Climate Program Office FY2022**

**Agency:** U.S. Department of Commerce NOAA-OAR-CPO-2022-2006799

**Website:** <https://www.grants.gov/web/grants/view-opportunity.html?oppId=334633>

**Brief Description:** Climate variability and change present society with significant economic, health, safety, and security challenges. As part of the National Oceanic and Atmospheric Administration (NOAA) climate portfolio within the Office of Oceanic and Atmospheric Research (OAR), the Climate Program Office (CPO) addresses these climate challenges by managing competitive research programs through which high-priority climate science, assessments, decision-support research, outreach, education, and capacity-building activities are funded to advance our understanding of the Earth's climate system, and to foster the application and use of this knowledge to improve the resilience of our Nation and its partners. Through this announcement, CPO is seeking applications for eight individual competitions in FY22. Several of these competitions are relevant to four high-priority climate risk areas CPO is focusing on to improve science understanding and/or capabilities that result in user-driven outcomes: Coastal Inundation, Marine Ecosystems, Water Resources, and Extreme Heat. NOAA, OAR, and CPO encourage applicants and awardees to support the principles of diversity and inclusion when writing their proposals and performing their work. Diversity is defined as a collection of individual attributes that together help organizations achieve objectives.

**Awards:** In FY22, approximately \$15 million will be available for approximately 90 new awards. Funding level between \$50,000 and \$300,000 per year with exceptions for larger awards.

**Letter of Intent:** Letters of intent (LOIs) for all competitions should be received by email by 5:00 p.m. Eastern Time on 08/09/21.

**Proposal Deadline:** Full applications must be received by 5:00 p.m. Eastern Time, on 10/18/21.

**Contact Information:** Diane Brown at [diane.brown@noaa.gov](mailto:diane.brown@noaa.gov).

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**Grant Program: FY2021 to FY2023 NOAA Broad Agency Announcement (BAA)**

**Agency:** U.S. Department of Commerce NOAA-NFA-NFAPO-2021-2006626

**Website:** <https://www.grants.gov/web/grants/view-opportunity.html?oppId=329261>

**Brief Description:** This Broad Agency Announcement is a mechanism to encourage research, education and outreach, innovative projects, or sponsorships that are not addressed through NOAA's competitive discretionary programs. This announcement is not soliciting goods or services for the direct benefit of NOAA. Funding for activities described in this notice is contingent upon the availability of Fiscal Year 2021, Fiscal Year 2022, and Fiscal Year 2023 appropriations. Applicants are hereby given notice that funds have not yet been appropriated for any activities described in this notice. Publication of this announcement does not oblige NOAA to review an application beyond an initial administrative review, or to award any specific project, or to obligate any available funds. As an agency with responsibilities for maintaining and improving the viability of marine and coastal ecosystems, for delivering valuable weather, climate, and water information and services, for understanding the science and consequences of



climate change, and for supporting the global commerce and transportation upon which we all depend, NOAA must remain current and responsive in an ever-changing world.

**Awards:** Contingent to the availability of funds.

**Letter of Intent:** Contact the program director.

**Proposal Deadline:** September 30, 2023.

**Contact Information:** Mr. Lamar Dwayne Revis, 301-628-1308, [lamar.revis@noaa.gov](mailto:lamar.revis@noaa.gov)

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## [EPA](#)

### **Grant Program: 19th Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet**

**Agency:** Environmental Protection Agency

**Funding Opportunity Numbers (FONs) and Associated Research Areas:** EPA-G2022-P3-Q1 – Air Quality EPA-G2022-P3-Q2 – Safe and Sustainable Water Resources EPA-G2022-P3-Q3 – Sustainable and Healthy Communities EPA-G2022-P3-Q4 – Chemical Safety

**Website:** <https://www.epa.gov/P3>

**Brief Description:** The U.S. Environmental Protection Agency (EPA), as part of its People, Prosperity and the Planet (P3) Award Program – is seeking applications proposing to research, develop, design, and demonstrate solutions to real world challenges. The P3 competition highlights the use of scientific principles in creating innovative technology-based projects that achieve the mutual goals of improved quality of life, economic prosperity and environmental protection. The EPA offers the P3 competition in response to the environmental and public health challenges in the United States, including those in small, rural, tribal and/or underserved communities. Please see the [P3 Student Design Competition website](#) for more details about this program. Proposed projects must embody the P3 approach, which is that they have the intention and capability to simultaneously improve the quality of people’s lives, provide economic benefits and protect the environment.

**Award:** Grants. Approximately 16 awards for Phase I; Approximately four awards for Phase II. Phase I serves as a “proof of concept,” where teams are awarded a one-year grant of up to \$25,000 to develop their idea and showcase their research in the spring at EPA's National Student Design Expo (NSDE). These teams are then eligible to compete for a Phase II grant of up to \$100,000 to implement their design in a real world setting. Anticipated Funding Amount: \$800,000

**Letter of Intent:** Not required.

**Submission Deadline:** October 27, 2021

**Contact:** Technical Contact: Kyle Spatz; phone: 202-564-3201; email: [spatz.kyle@epa.gov](mailto:spatz.kyle@epa.gov); Eligibility Contact: Ron Josephson; phone: 202-564-7823; email: [josephson.ron@epa.gov](mailto:josephson.ron@epa.gov); Electronic Submissions Contact: Debra M. Jones; phone: 202-564-7839; email: [jones.debram@epa.gov](mailto:jones.debram@epa.gov)

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### **Grant Program: FY22 BROWNFIELDS JOB TRAINING GRANTS**

**Agency:** Environmental Protection Agency EPA-OLEM-OBLR-21-03

**Website:** <https://www.grants.gov/web/grants/view-opportunity.html?oppId=335038>

**Brief Description:** This notice announces the availability of funds and solicits applications from eligible entities, including nonprofit organizations, to deliver Brownfields Job Training programs that recruit, train, and place local, unemployed and under-employed residents with the skills needed to secure full-time employment in the environmental field. While Brownfields Job Training Grants require training in

brownfield assessment and/or cleanup activities, these grants also require that Hazardous Waste Operations and Emergency Response (HAZWOPER) training be provided to all individuals being trained. EPA encourages applicants to develop their curricula based on local labor market assessments and employers' hiring needs, while also delivering comprehensive training that results in graduates securing multiple certifications.

**Award:** Up to \$200,000. Anticipated Funding Amount: \$3,000,000

**Letter of Intent:** Contact the program director.

**Submission Deadline:** OCTOBER 5, 2021, 11:59 p.m. ET.

**Contact:** Channing Shepherd 1200 Pennsylvania Ave. N.W. Mail Code: 5105T Washington, D.C. 20460 Phone: (202) 566-1238 [shepherd.channing@epa.gov](mailto:shepherd.channing@epa.gov)

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## **Grant Program: National Priorities: Water Innovation, Science, Engagement to Advance Water Reuse**

**Agency:** Environmental Protection Agency EPA-G2021-ORD-E1

**Website:** <https://www.grants.gov/web/grants/view-opportunity.html?oppId=334795>

**Brief Description:** The U.S. Environmental Protection Agency (EPA), is seeking applications proposing to accelerate water innovation, information availability, and engagement to advance clean and safe water reuse goals, promote better understanding of the Nation's water and wastewater treatment and infrastructure, and enhance the availability and efficient use of water resources through water reuse. This request for applications (RFA) is intended to address multiple water reuse sources and applications to support national efforts to reduce technological and institutional barriers for expanded water reuse.

**Award:** Up to \$3,246,000. Anticipated Funding Amount: \$6,492,000

**Letter of Intent:** Contact the program director.

**Submission Deadline:** September 29, 2021: 11:59:59 pm Eastern Time

**Contact:** Sarah Ludwig-Monty, Phone: 202-566-1072 [Sarah Ludwig-Monty, Technical Contact](#)

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## **Department of Energy**

**Grant Program: FY 2022 SBIR/STTR Phase I**

**Agency:** Department of Energy DE-FOA-0002554

**Website:** <https://science.osti.gov/sbir/Funding-Opportunities>

**Brief Description:** Phase I grants resulting from this competition will be made during FY 2022 to small businesses with maximum award sizes of \$200,000 or \$250,000. Refer to the individual topic for its respective maximum award size (a proposal submitted that exceeds the maximum award size for the respective topic will be declined without review). The period of performance will depend on the scope of the effort but will not exceed 12 months. Please note that the Phase II grant application will be due approximately 9.5 months after the grant start date. This will be the only opportunity to submit a Phase II application for Phase I awards made under this FOA. Grantees that select a Phase I period of performance of 9 months or less will be able to complete their Phase I project prior to submission of their Phase II grant application.

Phase I is to evaluate, insofar as possible, the scientific or technical merit and feasibility of ideas that appear to have commercial potential and/or substantial application in support of DOE mission research. The grant application should concentrate on research that will contribute to proving scientific



or technical feasibility of the approach or concept. Success in a DOE Phase I is a prerequisite to further DOE support in Phase II.

**Awards:** Ceiling (i.e., the maximum amount for an individual award made under this FOA): \$200,000 or \$250,000 for SBIR and STTR grants. Approximately \$40,000,000 is expected to be available for new awards under this FOA.

**Letter of Intent:** August 30, 2021; 5:00 PM Eastern

**Submission Deadline:** October 12, 2021 11:59 PM Eastern

**Contact:** [sc.hepfoa@science.doe.gov](mailto:sc.hepfoa@science.doe.gov)

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## **Grant Program: FY2022 Research Opportunities in High Energy Physics**

**Agency: Department of Energy DE-FOA-0002546**

**Website:** <https://www.grants.gov/web/grants/view-opportunity.html?oppId=335061>

<https://science.osti.gov/hep/>

**Brief Description:** The field of high energy physics is guided by intertwined [science drivers](#) to explore the elementary constituents of matter and energy, the interactions between them, and the nature of space and time. The Office of High Energy Physics (HEP) executes its [mission](#) through a program that advances [three frontiers](#) of experimental scientific discovery and related efforts in theory and computing. HEP develops new accelerator, detector and computational tools to enable the science, and through [Accelerator Stewardship](#) works to make accelerator technology widely available to science and industry. The HEP program focuses on three (3) experimental scientific frontiers:

The Energy Frontier - where powerful accelerators are used to create new particles, reveal their interactions, and investigate fundamental forces using highly sensitive experimental detectors;

The Intensity Frontier - where intense particle beams and highly sensitive detectors are used to pursue alternate pathways to investigate fundamental forces and particle interactions by studying events that occur rarely in nature, and to provide precision measurements of these phenomena; and

The Cosmic Frontier - where non-accelerator-based experiments use measurements of naturally occurring cosmic particles and observations of the universe to probe fundamental physics questions and offer new insight about the nature of dark matter, cosmic acceleration in the forms of dark energy and inflation in the early universe, neutrino properties, and other phenomena.

Together, these three interrelated and complementary discovery frontiers offer the opportunity to answer some of the most basic questions about the world around us. Also integral to the mission of HEP are crosscutting research areas that enable new scientific opportunities by developing the necessary tools and methods for discoveries:

Theoretical High Energy Physics, where the vision and mathematical framework for understanding and extending the knowledge of particles, forces, space-time, and the universe are developed;

Accelerator Science and Technology Research and Development, where the technologies and basic science needed to design, build, and operate the accelerator facilities essential for making new discoveries are developed; and

Detector Research and Development, where the basic science and technologies needed to design and build high energy physics detectors essential for making new discoveries are developed.

**Awards:** Award Ceiling: \$5,000,000 per year. Anticipated Available funding: \$100 million.

**Letter of Intent:** August 31, 2021 at 5:00 PM

**Submission Deadline:** October 5, 2021 at 11:59 PM

**Contact:** [sc.hepfoa@science.doe.gov](mailto:sc.hepfoa@science.doe.gov)

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**Grant Program: FY21 Advanced Manufacturing Office Multi-Topic FOA**

**Agency: Department of Energy DE-FOA-0002553**

**Website:** <https://eere-exchange.energy.gov/Default.aspx#FoaIde231b0d9-2c92-4010-a822-77abecf0dc82>

**Brief Description:** To drive manufacturing innovation, spur job creation, and enhance manufacturing competitiveness, the Advanced Manufacturing Office (AMO) supports applied research, development, and demonstration in crosscutting, platform technologies to decarbonize the industrial sector and promote the development and growth of a resilient manufacturing sector for multiple emerging clean energy fields.

Building a clean energy and equitable economy and addressing the climate crisis is a top priority of the Biden Administration. This Funding Opportunity Announcement (FOA) will advance the Biden Administration’s goal to achieve carbon pollution-free electricity by 2035 and to “deliver an equitable, clean energy future, and put the United States on a path to achieve net-zero emissions, economy-wide, by no later than 2050“ to the benefit of all Americans. The Department of Energy is committed to pushing the frontiers of science and engineering, catalyzing clean energy jobs through research, development, demonstration, and deployment (RDD&D), and ensuring environmental justice and inclusion of disadvantaged communities.

The research and development (R&D) activities to be funded under this FOA will support the government-wide approach to the climate crisis by driving the innovation that can lead to the deployment of clean energy technologies, which are critical for climate protection. This FOA will support activities to advance efficiency improvements and enhance manufacturing competitiveness through technological innovation by focusing on three main areas, as described below, with subtopics in each area:

**Topic Area 1: Manufacturing Process Innovation**

Topic Area 1a: Efficiency Improvements to Drying Processes

Topic Area 1b: Advanced Tooling for Lightweight Automotive Components

Topic Area 1c: Sustainable Chemistry Practices in Manufacturing

**Topic Area 2: Advanced Materials Manufacturing**

Topic Area 2a: Materials for Harsh Service Conditions

Topic Area 2b: Development of Aluminum-Cerium (Al-Ce) Alloys and Processing to Enable Increased Energy Efficiency in Aerospace Applications

**Topic Area 3: Energy Systems**

Topic Area 3a: Structured Electrode Manufacturing for Lithium-ion Batteries

**Awards:** EERE expects to make a total of approximately \$42,300,000 of federal funding available for new awards under this FOA, subject to the availability of appropriated funds. EERE anticipates making approximately 17 to 30 awards under this FOA. EERE may issue one, multiple, or no awards. Individual awards may vary between \$500,000 and \$4,000,000 depending on topic area.

**Letter of Intent:** N/A

**Submission Deadline:** Concept Paper Submission Deadline: 9/10/2021 5:00 PM ET

- Full Application Submission Deadline: 11/5/2021 5:00 PM ET

**Contact:** [AMOMultitopicFOA@ee.doe.gov](mailto:AMOMultitopicFOA@ee.doe.gov) For questions regarding this FOA .

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[NASA](#)

**Grant Program: ROSES 2021: Terrestrial Ecology**

**Agency: NASA NNH21ZDA001N-TE**

**Website:** <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B17422C0A-C2D6-8926-0555-80C6903F583E%7D&path=&method=init>

**Brief Description:** The program addresses the spatial and temporal variability of terrestrial ecosystem states and processes, how terrestrial ecosystems and biogeochemical cycles respond to and affect global environmental change, and what future changes might be expected in carbon cycle dynamics and ecosystems. The research approach combines (i) use of remote sensing to observe and analyze changes in terrestrial ecosystems; (ii) field campaigns and related process studies to elucidate ecosystem functions at multiple scales; and (iii) data assimilation and modeling to analyze and predict ecosystem and biogeochemical cycle responses to environmental change. The program seeks to strengthen the theoretical and scientific basis for measuring the properties of Earth's vegetation using reflected, emitted, and scattered electromagnetic radiation and develop the methodologies and technical approaches required to analyze and interpret such measurements. These activities will ultimately provide a foundation for the new remote sensing capabilities needed to understand and monitor terrestrial ecosystems at regional to global scales.

**Awards:** Funding available for this entire program element is approximately \$4.5M/year for a three-year period, nominally from October 2022 to September 2025.

**Notice of Intent:** Please contact the program director.

**Proposal Deadline:** November 17, 2021

**Contact:** Hank Margolis Earth Science Division Science Mission Directorate NASA Headquarters Washington, DC 20546-0001 (202) 295-7075 [hank.a.margolis@nasa.gov](mailto:hank.a.margolis@nasa.gov)

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### **Grant Program: ROSES 2021: Heliophysics Living with a Star Infrastructure**

**Agency:** NASA NNH21ZDA001N-LWSIS

**Website:** <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B018BECDA-10D2-748E-12C4-608F75AE5A03%7D&path=&method=init>

**Brief Description:** The Heliophysics Living with a Star Infrastructure (H-LWSIS) program solicits proposals to train and develop the next generation of heliophysicists to address complex crossdiscipline system-wide problems that are central to understanding and modeling the Sun-Solar System connection. This element specifically covers the administration of the Jack Eddy Postdoctoral Fellowship (JEPF) Program over a period of 4 years and the management of the LWS Heliophysics Summer School (HSS). Descriptions of these two infrastructure-building programs are found below. Proposals to this element must address the administration and management of one or both of these programs. One of the great challenges for the LWS science program is to achieve the "systems" science required for enhancing our understanding that leads to predicting the Sun-Solar-System connection, phenomena that span the whole Sun-Earth domain and beyond over many temporal and spatial scales. As such, these two programs are central to the LWS Program.

**Awards:** Expected program budget for new awards: ~\$2 million

**Notice of Intent:** Contact program director

**Proposal Deadline:** November 10, 2021

**Contact:** Lika Guhathakurta Heliophysics Division Science Mission Directorate NASA Headquarters Washington, DC 20546-0001 Telephone: (202) 358-1992 Email: [madhulika.guhathakurta@nasa.gov](mailto:madhulika.guhathakurta@nasa.gov)

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### **Grant Program: ROSES 2021: Living With a Star Strategic Capability**

**Agency:** NASA NNH21ZDA001N-LWSSC

**Website:** <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BE390079C-4F6E-5F2B-6BD9-38568142AAF5%7D&path=&method=init>

**Brief Description:** The Living With a Star Strategic Capability (LWSSC) program solicits proposals for the development of models for the coupled Sun-Earth and Sun-Solar System. Such models can act as tools for science investigations, as prototypes and test beds for prediction and specification capabilities, as frameworks for linking disparate data sets at vantage points throughout the Sun-Solar System, and as strategic planning aids for enabling exploration of outer space and testing new mission concepts. LWS Strategic Capability (LWSSC) is a component of the Heliophysics Research Program and proposers interested in this program element should read B.1, the Heliophysics Research Program Overview for Heliophysics-specific requirements. Defaults for all ROSES elements are found in the ROSES Summary of Solicitation and the Proposer's Guidebook and the order of precedence is the following: This document (B.6) followed by B.1, followed by the ROSES Summary of Solicitation, and the Proposer's Guidebook. Proposers should review all of these resources to ensure compliance with Program requirements.

**Awards:** The total funding available in Fiscal Year (FY) 2021 for new proposals submitted in response to this solicitation is expected to be about \$4M.

**Notice of Intent:** Contact program director

**Proposal Deadline:** Oct 13, 2021

**Contact:** Jacqueline Jeff Morrill Telephone: (202) 358-3744 Email: [jeff.s.morrill@nasa.gov](mailto:jeff.s.morrill@nasa.gov)

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## **[National Endowment of Humanities](#)**

### **Grant Program: Summer Stipends**

**Agency:** National Endowment for the Humanities 20200923-FT

**Website:** <https://www.neh.gov/grants/research/summer-stipends>

**Brief Description:** The National Endowment for the Humanities' Summer Stipends program aims to stimulate new research in the humanities and its publication. The program works to accomplish this goal by:

- Providing small awards to individuals pursuing advanced research that is of value to humanities scholars, general audiences, or both
- Supporting projects at any stage of development, but especially early-stage research and late-stage writing in which small awards are most effective
- Furthering the NEH's commitment to diversity and inclusion in the humanities by encouraging applications from independent scholars and faculty at Hispanic Serving Institutions, Historically Black Colleges and Universities, Tribal Colleges and Universities, and community colleges

Summer Stipends support continuous full-time work on a humanities project for a period of two consecutive months. NEH funds may support recipients' compensation, travel, and other costs related to the proposed scholarly research.

A second recorded webinar focused on application writing tips can be viewed [here](#) and a [PDF version](#) of the presentation slides is also available.

**Award:** Maximum award amount: \$6,000

**Letter of Intent:** Not required

**Proposal Deadline:** Application due September 22, 2021

**Contact:** Contact the Division of Research Programs Team; 202-606-8200; [stipends@neh.gov](mailto:stipends@neh.gov)

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### **Grant Program: Humanities Connections**

**Agency:** National Endowment for the Humanities 20210914-AKA-AKB

**Website:** <https://www.neh.gov/grants/education/humanities-connections>

**Brief Description:** The Humanities Connections program seeks to expand the role of the humanities in undergraduate education at two- and four-year institutions. Awards support innovative curricular approaches that foster partnerships among humanities faculty and their counterparts in the social and natural sciences and in pre-service or professional programs (such as business, engineering, health sciences, law, computer science, and other technology-driven fields), in order to encourage and develop new integrative learning opportunities for students.

Humanities Connections projects must include:

- substantive and purposeful integration of the subject matter, perspectives, and pedagogical approaches of two or more disciplines (with a minimum of one in and one outside of the humanities)
- collaboration between faculty from two or more departments or schools at one or more institutions
- experiential learning as an intrinsic part of the proposed curriculum
- long-term institutional support for the proposed curriculum innovation(s)

Competitive applications will demonstrate:

- that the proposed curricular project expands the role of the humanities in addressing significant and compelling topics or issues in undergraduate education at the applicant institution(s)
- that these projects develop the intellectual skills and habits of mind cultivated by the study of the humanities
- that faculty and students will benefit from meaningful collaborations in teaching and learning across disciplines as a result of the project

The Humanities Connections program includes two funding levels: **Planning** and **Implementation**

A [pre-application webinar](#) will be hosted on June 30, 2021 at 2:00 p.m. Eastern Time.

**Award:** Maximum award amount up to \$35,000 for Planning; up to \$150,000 for Implementation

**Letter of Intent:** Optional Draft due August 3, 2021

**Proposal Deadline:** Application due September 14, 2021

**Contact:** Contact the Division of Education Programs Team [humanitiesconnections@neh.gov](mailto:humanitiesconnections@neh.gov)

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## [Private Foundations](#)

### [Sony Research Award Program](#)

#### **Grant Program: Sony Research Award Program**

**Agency:** Sony

**Website:** <https://www.sony.com/en/SonyInfo/research-award-program/#Overview>

**Brief Description:** As part of one of the world's most innovative and recognizable brands, we are committed to support university research and innovation in the U.S., Canada, India, and select European countries, while also fostering partnerships with university faculty and researchers. The Sony Research Award Program provides funding for cutting-edge academic research and helps build a collaborative relationship between faculty and Sony researchers. With awards up to \$150,000 USD\* per year for each accepted proposal, both the Faculty Innovation Award and Focused Research Award create new opportunities for university faculties to engage in pioneering research that could drive new technologies, industries and the future.

**Award:** Focused Research Award: up to \$150K USD; Faculty Innovation Award: up to \$100K USD

**Letter of Intent:** Not required.

**Proposal Deadline:** 11:59 pm PDT (Pacific Daylight Time; UTC-7) on September 15, 2021

**Contact:** C.C. Lee, Ph.D., Senior Vice President, R&D Center U.S. Laboratory,  
[ResearchAwardProgram2021@sony.com](mailto:ResearchAwardProgram2021@sony.com)

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### **Streamlyne Question of the Week**

**Question:** How can I update my eRA Commons ID for all future NIH proposals?

**Answer:** Go to Main Menu>Setting>Person Extended Attributes, click "Edit", enter it under "eRA Commons User Name" and submit the change/update.

More FAQs on Streamlyne: Please visit <https://research.njit.edu/streamlyne>

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### **Proposal Submission and Streamlyne Information** **Internal Timeline for Successful and Timely Proposal Submission**

Due to the COVID-19 outbreak, PIs are strongly advised to prepare proposals well in advance of agency deadlines. Every effort will be made to meet agency deadlines following the NJIT Research Continuity Plan (<https://research.njit.edu/njit-research-continuity-plan>).

The NJIT Proposal Submission Guidelines and Policy posted on the website <https://research.njit.edu/proposal-submission-guidelines> provides the expected institutional timeline for proposal submission. Streamlyne User Manuals are posted on <https://research.njit.edu/streamlyne>. For contact information on proposal submission, pre-award services and post-award grant management, please visit research website <https://research.njit.edu/researchers> and <https://research.njit.edu/contact>.

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