

NJIT Research Newsletter

Issue: ORN-2020-37

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

Fall 2020 Undergraduate Research and Innovation (URI) Student Seed Grants Call for Proposals

URI Phase-1 Student Seed Grants: \$500 per project

Track-1 Technology/Product Development and Innovation

Track-2: Application Based Research

Proposal Submission Deadline: September 28, 2020

Notification of Proposals Accepted for Oral Presentations: Wednesday, October 7, 2020

URI Workshop Proposal Oral Online Presentations: Week of October 12, 2020

NJIT 2025 Strategic Plan emphasizes providing undergraduate students an outstanding education with opportunities to have research and innovation experience as part of their NJIT learning enabling them to succeed and assume leadership roles in our society.

The NJIT URI Program is pleased to announce the **Fall 2020 Undergraduate Research and Innovation Student Grant (URISG) Program** to provide students **Phase-1 Student Seed Grants of \$500 per project** to pursue preliminary research or demonstrate an initial proof-of-concept/prototypes. Note: *URI Phase-2 Student Seed Grants are not being awarded this semester and may resume in Spring 2021.*

Seed grant funds can only be used to order project supplies and prototyping through the Office of Undergraduate Research and Innovation. The student may prepare URI Student Phase-1 Seed Grant proposals following the **Proposal Guidelines**.

URI Fall 2020 Proposal Submission Information and Forms

- Students working with a faculty member may submit **Track-1 Technology/Product Development and Innovation or Track-2: Application Based Research** proposals in the required format by **September 28, 2020**. The Proposal Guidelines and Template are available in the Forms/Templates section below.
- Complete and submit the online **URI Fall 2020 Student Seed Grant Application Form** that will require uploading of the proposal using the **Proposal Cover Sheet Template**. You will need to have your research proposal ready to upload when you fill out the online application form.
- Complete and submit the **MODE OF RESEARCH FORM** which requires faculty advisor approval. This is submitted separately via email to brenda.g.herman@njit.edu
- Finalists selected for URI oral presentations will be announced by **Weds., October 7**.
- Finalists are required to present their oral presentations to the External Advisory Board via WebEx or Zoom following the presentation format posted on the URI website.

FORMS/TEMPLATES LIST

- [Application Form](#)
- [Proposal Guidelines](#)
- [Proposal Cover Sheet Template](#)
- [Mode of Research Form](#)

NJIT – I-Corps Site Mini-Grant

**Have a great technology concept?
Need funds to explore the commercialization pathways?**
<https://judithsheft.wufoo.com/forms/r1wl7a6n05g1mwb/>

NJIT has been designated as an NSF I-Corps Site and through the NJIT School of Management and NJ Center for Innovation Acceleration, we will provide specialized training and mini grants of up to \$3,000 to teams interested in exploring the commercial viability of their ideas for products and businesses that are based on their own inventions or NJIT intellectual property. Do you have an exciting technology that works in the lab? Would you like help to start a company to commercialize the technology? Do you want to test a prototype in the real-world environment?

Benefits: Learn the lean start up methodology – an approach that has significant advantages over traditional business planning / new product development approaches. Get out of the building and spend the majority of your time talking to potential customers to discover how your technology could effectively ‘solve’ customers’ unmet needs or pain points Make connections with experienced entrepreneurs and investors that can lead to potential follow-on support or collaboration

Eligibility: I-Corps mini grants are available to teams made up NJIT students and faculty. Each team must have:

- an entrepreneurial lead (typically an NJIT undergraduate or graduate student(s))
- an academic lead researcher/advisor (faculty member)
- a business mentor with significant entrepreneurial business experience.

The NJIT I-Corps Program Manager (Dr. Michael Ehrlich) will provide assistance to complete teams as necessary. You must have at least 2 teams members identified to apply. All team members must be able to participate for the 6-month project duration.

Deadlines: Deadline for Submissions: October 6, 2020

Interviews of Finalists: October 12 - 16, 2020

Announcement of Awards – October 21, 2020

Mandatory Team Orientation – October 28, 2020 (Common Hour)

Other Mandatory Sessions: November 25, 2020 / January 27, March 10 2021

Final Report Due: March 18, 2020

Questions: Please Contact: Dr. Michael Ehrlich – NJIT School of Management and Director of the NJ Innovation Acceleration Center - ehrllich@njit.edu

NJIT Pandemic Recovery Plan

Research Continuity and Phased Recovery Plan

<https://research.njit.edu/njit-pandemic-recovery-plan>

NJIT faculty, staff, and students at research facilities must follow the specific social distancing and safety protocols including the use of personnel protective equipment (PPE) as required by the institutional, state and federal guidelines in the respective phase of the research continuity plan. State and national information regarding current conditions can be found at:

- New Jersey’s COVID-19 information hub: <https://covid19.nj.gov/index.html>
- CDC guidelines on “Symptoms of Coronavirus”: <https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>
- CDC guidelines on “Use of Cloth Face Coverings to Help Slow the Spread of COVID-19”: <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/diy-cloth-face-coverings.html>

The details on NJIT Research Continuity and Phased Recovery Plan and associated protocols are posted on the website <https://research.njit.edu/njit-pandemic-recovery-plan>

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[Grant Opportunity Alerts](#)

Keywords and Areas Included in the Grant Opportunity Alert Section Below

NSF: Sustainable Regional Systems Research Networks (SRS RNs); CISE Community Research Infrastructure (CCRI); Collaborative Research in Computational Neuroscience (CRCNS); Research Training Groups in the Mathematical Sciences (RTG); Advancing Informal STEM Learning (AISL); Advanced Computing Systems & Services: Adapting to the Rapid Evolution of Science and Engineering Research; Focused Research Hubs in Theoretical Physics (FRHTP)

NIH: BRAIN Initiative: Pilot resources for brain cell type-specific access and manipulation across vertebrate species (U01); Genomic Data Analysis Network: Genomic Data Center (U24); NIH Blueprint for Neuroscience Research: Functional Neural Circuits of Interoception (R01); Innovative Research in Cancer Nanotechnology (IRCN) (R01)

Department of Defense/US Army/DARPA/ONR: Verified Security and Performance Enhancement of Large Legacy Software (V-SPELLS); DoD Combat Readiness, Rapid Development and Translational Research Award; Defense Sciences Office Office-wide; C4ISR, Information Operations, Cyberspace Operations and Information Technology System Research

Department of Transportation: Advanced Transportation and Congestion Management Technologies Deployment Initiative

Department of Agriculture: NRCS's Regional Conservation Partnership Program; Agriculture and Food Research Initiative - Foundational and Applied Science

Department of Labor: Supply Chains Tracing Project

Department of Commerce/EDA: FY2021 Marine Debris Research; Effects of Sea Level Rise (ESLR); STEM Talent Search

EPA: Center for Early Lifestage Vulnerabilities to Environmental Stressors

Department of Energy: FY 2021 SBIR/STTR Phase I Release 1; American-Made Solar Prize

NASA: NASA Space Technology Graduate Research Opportunities; ROSES 2020: Carbon Cycle Science; Heliophysics Science Center (HSC); ROSES 2020: Science Team for the OCO Missions

National Endowment of Humanities: Digital Humanities Advancement Grants; Scholarly Editions and Scholarly Translations

Private Foundations: New Jersey Health Foundation: Innovation Grants Program; Blavatnik Family Foundation: Blavatnik National Awards Laureate Program

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Recent Research Grant and Contract Awards

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

PI: Antje Ihlefeld (PI)

Department: Biomedical Engineering

Grant/Contract Project Title: Cortical Processing of Informational Masking

Funding Agency: NIH

Duration: 09/18/20-08/31/25

PI: Dantong Yu (PI)
Department: MT School of Management
Grant/Contract Project Title: Software-Defined Quantum Network
Funding Agency: U.S. Department of Energy
Duration: 09/01/19-08/31/23

PI: Mohamed Mahgoub (PI)
Department: School of Applied Engineering and Technology
Grant/Contract Project Title: I-Corps: Impact of Extended Time on Fresh Concrete and Durability
Funding Agency: NSF
Duration: 08/01/20-01/31/21

PI: Durgamadhab Misra (PI) and Ashish Borgaonkar (Co-PI)
Department: Electrical and Computer Engineering; School of Applied Engineering and Technology
Grant/Contract Project Title: New Jersey Institute of Technology Ronald E. McNair Postbaccalaureate Achievement Program
Funding Agency: U.S. Department of Education
Duration: 10/01/20-09/30/21

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In the News...

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

BIOLOGICAL RESEARCH AT THE DEPARTMENT OF ENERGY: As the COVID-19 pandemic began to unfold in the US, it became apparent that DOE's laboratories and programs were also well positioned to help us respond to the virus. It is perhaps not well known, but this territory of research is not new to the labs. DOE Labs house and operate national user facilities like the Joint Genome Institute, established by the department in 1997 as part of the Human Genome Project. Today, Institute researchers survey the biosphere to characterize organisms relevant to the DOE science missions of bioenergy, global carbon cycling, and biogeochemistry. They also provide advanced sequencing and computational analysis of genes related to clean energy generation and environmental characterization and cleanup. Leveraging these capabilities has enabled researchers to develop countermeasures against the novel coronavirus like diagnostic tests and allowed them to assess transmission and evolution dynamics as the virus spreads globally. This hearing examined the historic reasons for why the department possesses advanced bioscience capabilities to address the nation's grand challenges and to stimulate innovation; how this expertise and DOE's biological research tools are being leveraged to respond to the COVID19 pandemic; and what future directions for the Department's biological system research can provide solutions for our nation's most pressing issues. More information is posted on the [Science, Space and Technology website](#). The House Committee on Science, Space, and Technology; Research and Technology Subcommittee discussed the impact of the COVID-19 crisis on innovation as it relates to our academic research system. The chair noted that federally funded research conducted on university campuses across the nation is a critical driver of U.S. innovation and economic development, pairing with private sector and government partners to jumpstart new technology and scientific breakthroughs. *The COVID-19 crisis sent shock waves through this critical ecosystem. University administrators, research facility managers, faculty, postdocs, and students are all reeling from the profound disruptions to their work and struggling to adapt amid*

persistent uncertainty about how long this crisis will last. The RISE Act authorizes \$26 billion in emergency relief funding for science agencies to support full-cost extensions of research grants so that we don't lose literally years of critical research. The Supporting Early-Career Researchers Act creates a new \$250 million fellowship program at the National Science Foundation to help keep recent Ph.D. recipients in the STEM pipeline. Theresa S. Mayer Executive Vice President for Research and Partnerships Professor of Electrical and Computer Engineering Purdue University testified that With the current trends in COVID-19 positive cases across the country, it is reasonable to expect that federally funded researchers will continue to experience declines in productivity due to COVID-19 related issues such as absences due to illness, quarantine, gaps in childcare and school, and other factors.

The time and resources committed to the institutional response is only one aspect of the research impact. COGR recently reported an excellent study that qualitatively analyzes and predicts the effect of different “pandemic normal” scenarios on short- and long-term financial impact to sponsored program research. It is also important to quantitatively measure and document the level of disruption and financial impact on individual sponsored programs to overall university portfolios to feed these models and to inform federal agencies of actual COVID-19 related losses due to factors including: lost access to facilities, travel restrictions preventing state, national, and international collaborations and field work, illness and family leave, and others.

All testimonies on impact of research at universities are posted on the [Science, Space and Technologies website](#).

IBM Announces Summer Internship Program In Quantum Computing: [TechGig](#) (9/10) reports IBM “just announced the Summer 2021 internship program in the US” and also “has just wrapped up their Summer 2020 internship program.” This year’s program “hosted more than 70 interns supported by 28 managers and 51 mentors from across IBM quantum team.” IBM “plans to train the future scientists, engineers and developers across the globe on quantum computing.”

Report Explores Level Of Investment Needed For Clean Energy Future: [Forbes](#) (9/9, Cherney) that a “report recently published by the University of California Berkeley’s Goldman School of Public Policy argues that transitioning the U.S. electricity sector to 90% clean energy by 2035 is operationally feasible, and, even more striking, possible without raising customer’s bills from today’s levels.” However, “achieving this outcome, the report acknowledges, will require ‘strong policies’ to enhance large-scale adoption of renewable energy.” Based on “the Berkeley report, to reach 90% clean energy by 2035 the deployment of new clean energy and storage capacity in the United States would need to average 75 gigawatts each year, reaching over 1,200 gigawatts in total by 2035.”

Pentagon, Defense Contractors Are Out Of Step On Tech Innovation: wo years after the Pentagon set out to spend billions on 10 breakthrough research and engineering efforts, defense contractors instead are putting most of their money in less ambitious research projects. The development gap between the military and its suppliers troubled investigators at the Government Accountability Office, or GAO, who determined in a report released Thursday that the Defense Department isn’t keeping good watch over those private efforts and doesn’t know how much of it would fit into the military’s tech goals. The Pentagon’s undersecretary for research and engineering in 2018 [laid out](#) several [big idea research areas](#) that would be most relevant to maintaining an edge on China or Russia. Many are in the very early stages of maturation; the biggest breakthroughs are expected in the second half of the coming decade.

They are: artificial intelligence, autonomy, biotechnology, directed energy, space, cyber, microelectronics, hypersonics, networked command and control, and quantum science. These areas of the future will go on to determine technology superiority in 2030, and the Department of Defense is eager to

invest . It plans to spend \$7.5 billion on artificial intelligence, autonomy, hypersonics, and directed energy this year, according to the report. The article is posted on the [GoveExec website](#).

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Webinar and Events

Event: National Artificial Intelligence (AI) Research Institutes Program Webinar

Sponsor: NSF

When: September 21, 2020 3.30 PM – 5.00 PM

September 25, 2020 3.00 PM – 4.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=301175&org=NSF

Brief Description: Artificial Intelligence (AI) has advanced tremendously and today promises personalized healthcare; enhanced national security; improved transportation; and more effective education, to name just a few benefits. Increased computing power, the availability of large datasets and streaming data, and algorithmic advances in machine learning (ML) have made it possible for AI research and development to create new sectors of the economy and revitalize industries. Continued advancement, enabled by sustained federal investment and channeled toward issues of national importance, holds the potential for further economic impact and quality-of-life improvements.

The goal of this program is to enable multidisciplinary, multi-stakeholder research on large-scale, long-time-horizon challenges in areas of national importance, through the growth of the network of National AI Research Institutes. This webinar will introduce the program, describe funding opportunities, and address questions about the program.

The National Artificial Intelligence (AI) Research Institutes program is a joint government effort between the National Science Foundation (NSF), U.S. Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA), U.S. Department of Homeland Security (DHS) Science & Technology Directorate (S&T), and the U.S. Department of Transportation (DOT) Federal Highway Administration (FHWA). New to the program this year are contributions from partners in U.S. industry who share in the government's goal to advance national competitiveness through National AI Research Institutes. This year's industry partners are Accenture, Amazon, Google, and Intel Corporation.

This webinar will cover the [National Artificial Intelligence Research Institutes](#) solicitation [NSF 20-604](#), submission requirements and program updates.

To Join the Webinar: Register in advance for this webinar:

https://nsf.zoomgov.com/webinar/register/WN_6Qo-wGMtTOaniMch4auBKQ

- **Prepare in advance by testing your internet connection and devices with Zoom software:** <https://zoom.us/test> . Learn more about participating in meetings remotely with NSF at: <https://beta.nsf.gov/about/participant>.

Event: National AI Research Institute in Dynamic Systems Webinar

Sponsor: NSF

When: September 25, 2020 3.00 PM – 4.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=301241&org=NSF

Brief Description: To learn about **National Artificial Intelligence (AI) Research Institutes Theme 5: AI Institute in Dynamic Systems**, please join NSF on September 25, 2020, for a webinar starting at 3:00 PM Eastern. The National AI Research Institutes program seeks to enable multidisciplinary, multi-stakeholder research on large-scale, long-time-horizon challenges in areas of national importance, through the growth of the network of National AI Research Institutes. There are eight institute themes this year.

NOTE: A [program-wide webinar](#) for the [National Artificial Intelligence Research Institutes](#) solicitation [NSF 20-604](#) is scheduled for 3:30-5:00 PM on September 21, 2020 (register at https://nsf.zoomgov.com/webinar/register/WN_6Qo-wGMtTOaniMch4auBKQ).

Theme 5: AI Institute in Dynamic Systems supports research and education in fundamental AI and machine learning theory, algorithms, and use-inspired engineering and science for real-time sensing, learning, decision making, and predictions that lead the way towards safe, reliable, efficient, and ethical data-enabled engineering and science systems.

This Theme 5 webinar will cover theme-specific goals, submission requirements, and answer theme-specific questions.

To Join the Webinar: To join the Theme 5 webinar:

- Register in advance at https://nsf.zoomgov.com/meeting/register/vJIsceCuqT8uGKwozHE_h-Wi4F7IEE3lQvM
- Prepare in advance by testing your internet connection and devices with Zoom software: <https://zoom.us/test>. Learn more about participating in NSF meetings remotely at <https://beta.nsf.gov/about/participant>.
- Request accommodations in advance. Real-time captions will be available during the webinar. Please submit requests for other types of accessibility accommodations at least three days in advance to Ying Sun at yisun@nsf.gov.

Event: Deep Dive Into Deep Tech Incubation Workshop

Sponsor: NSF

When: September 25, 2020 12.30 PM – 1.30 PM

October 16, 2020 12.00 PM – 1.00 PM

November 18, 2020 12.00 PM – 1.00 PM

December 18, 2020 12.00 PM – 1.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=301160&org=NSF

Brief Description: Part I

Friday, September 25, 12 pm Eastern (90 min)

How COVID-19 Is Affecting The Deep Tech Startup Ecosystem

COVID-19 has been the most profound shock to the national research enterprise since World War II. The repercussions are still shaking out, but lost research output due to temporary closures of most state economies has wreaked havoc on the pace of innovation and commercialization in the U.S. It is expected that the financial and economic effects of the pandemic on capital markets will be a catastrophic event for many early-stage companies, especially those that are bringing deep technologies to market. The first part of the Deep Dive Into Deep Tech Incubation webinar series will feature thought leaders from government, academia, startups, and the investment community to discuss how deep tech entrepreneurs can try to weather COVID-19 and make it out on the other side of this ongoing crisis stronger and better prepared.

Part II

Friday, October 16, 12 pm Eastern (60 min)

Deep Tech Incubation Fundamentals and Best Practices

Deep tech innovators and entrepreneurs often need increasing levels of support due to the capital intensity and long lead times required to commercialize their innovations. Incubators and accelerators play a critical role in helping fill gaps and connect dots for aspiring deep tech startups, providing everything from mentorship to access to talent and matchmaking with various capital sources. This support is essential to an early-stage company's success, especially given the plethora of well-intentioned programs that can often confuse or misguide aspiring entrepreneurs and innovators who are almost always working with limited resources. The second part of the Deep Dive Into Deep Tech Incubation webinar series will feature

leading experts from the nation's top deep tech incubators and accelerators who will share tips, lessons learned, and best practices for deep tech startups and venture development organizations.

Part III

Wednesday, November 18, 12 pm Eastern (60 min)

Deep Tech Incubation and Academia Nexus

Deep tech innovation is often born out of academic research at campuses across the nation. As a result, colleges and universities play a unique and critical role in fostering the development and commercialization of technologies that will transform our lives. The technology discovery and transfer processes can be especially risky for deep tech innovations given the complexity of scaling them from lab to market and understanding potential commercial applications. However, colleges and universities remain at the forefront of deep tech incubation. Their people and programs that support this research translation process directly impact the strength and competitiveness of technology innovation in the U.S. The third part of the Deep Dive Into Deep Tech Incubation webinar series will feature visionaries from leading academic institutions to discuss this research translation nexus and how they manage the deep tech commercialization process and instill strong entrepreneurial cultures at their respective campuses.

Part IV

Friday, December 18, 12 pm Eastern (60 min)

Deep Tech Venture Capital and Corporate Partnerships

Deep tech startups typically require significant capital and time to get their innovations into the market. More and more financial investors have entered this space as they view the outsize financial returns that are possibly worth the risk of supporting deep tech startups. In addition, more corporate and strategic partners are competing by investing in innovation, whether it is structured as direct investments in early-stage companies or other forms of support like joint ventures or non-recurring engineering. These venture capital and corporate partnerships provide highly valuable validation for deep tech startups, which enables them to raise follow-on capital and secure the partnerships that are critical to commercializing their technology. The fourth and final part of the Deep Dive Into Deep Tech Incubation webinar series will feature top investors and corporations who are actively partnering with deep tech startups as well as entrepreneurs who have benefited from this type of support.

To Join the Webinar: Register at <https://www.eventbrite.com/e/deep-dive-into-deep-tech-incubation-series-tickets-114163867200>

Event: I-Corps Teams Webinar

Sponsor: NSF

When: October 1, 2020 12.00 PM – 1.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=301112&org=NSF

Brief Description: Join a monthly NSF Innovation Corps (I-Corps) Teams webinar to learn how to make your technology concept into a product through customer discovery. If you have worked on an NSF grant in the last few years, you may be eligible for the [National I-Corps Teams program](#). Program directors will answer questions and provide updated information about I-Corps contacts, the curriculum and important dates

To Join the Webinar: [Register for the October 1 webinar](#)

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Grant Opportunities

National Science Foundation

Grant Program: Sustainable Regional Systems Research Networks (SRS RNs)

Agency: National Science Foundation NSF 20-611

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20611/nsf20611.htm>

Brief Description: The United States is made up of regional systems comprising interdependent urban and rural systems and every community category between urban and rural. Urban systems are dependent on rural systems for the provisioning of food, energy, water, and other materials and natural resources, while rural systems are dependent on urban systems for markets, manufactured goods, and medical resources. These systems are also connected by ecological processes that both influence and are influenced by human behavior. The vital interconnection of urban-rural systems underscores the critical need for the advancement of sustainable regional systems (SRS). The goal of this solicitation is to fund convergent research and education that will advance sustainable regional systems science, engineering, and education to facilitate the transformation of current regional systems to enhance sustainability. To further the advancement of SRS science, engineering, and education, NSF will support Full Scale proposals and Planning Grant proposals for Sustainable Regional Systems Research Networks (SRS RNs).

Sustainable regional systems are connected urban and rural systems that are transforming their structures and processes collaboratively with the goal of measurably and equitably advancing the well-being of people and the planet. The purpose of the SRS RNs competition is to develop and support interdisciplinary, multi-organizational teams of investigators and stakeholders working collaboratively to produce cutting-edge convergent research, education, and outreach that addresses grand challenges in sustainable regional systems. SRS RNs will study multiscale regional systems to further SRS science, engineering, and education. Key elements will include new data, methods, and models to understand interactions between natural, human-built, and social systems; improved understanding of interdependencies, mutual benefits, and trade-offs of different wellbeing outcomes for humans and the environment; new and generalizable theories of change relevant to SRS; the co-production of knowledge; and exploration of concepts of social equity in sustainable regional systems across spatial and temporal scales. SRS RN outcomes will have the potential to inform societal actions for sustainability across urban systems and the connected rural communities that make up regional systems.

Awards: Standard Grant or Cooperative Agreement; **Anticipated Funding Amount:** \$31,000,000

Subject to availability of funds and quality of proposals, this SRS RN solicitation will support projects in the following categories:

- **SRS RNs Full Scale Awards (Track 1).** These awards will support fundamental convergent research, education, and outreach that addresses engineering, environmental (biology, chemistry - including sensing, chemical analytics, and recyclable plastics, atmospheric sciences, hydrology, geology), computer and data sciences, and social and behavioral sciences of sustainable regional systems in partnerships that may embrace universities, colleges, practitioners, non-profit organizations, local governments, industry, and community groups. The award size is up to \$15 million total with a duration of 5 years.
- **SRS RNs Planning Grants (Track 2).** These awards are for capacity building to prepare project teams to propose future well-developed SRS RN Full Scale (Track 1) proposals. Each of these Track 2 awards will provide support for a period of one year and may be requested at a level not to exceed \$150,000 for the total budget.

Letters of Intent: Not required

Proposal Submission Deadline: January 11, 2021

Contacts: Bruce K. Hamilton, Division of Chemical, Bioengineering, Environmental, and Transport Systems, telephone: (703) 292-7066, email: SRS@nsf.gov

- Brandi Schottel, Office of Integrative Activities, telephone: (703) 292-4798, email: SRS@nsf.gov
 - David Corman, Division of Computer and Network Systems, telephone: (703) 292-8754, email: SRS@nsf.gov
-

Grant Program: CISE Community Research Infrastructure (CCRI)

Agency: National Science Foundation NSF 20-610

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20610/nsf20610.htm>

Brief Description: The Computer and Information Science and Engineering (CISE) Community Research Infrastructure (CCRI) program drives discovery and learning in the core CISE disciplines of the three participating divisions [(Computing and Communication Foundations (CCF), Computer and Network Systems (CNS), and Information and Intelligent Systems (IIS)] by funding the creation and enhancement of world-class research infrastructure. This research infrastructure will specifically support diverse communities of CISE researchers pursuing **focused research agendas in computer and information science and engineering**.

The CCRI program supports three classes of awards:

- **Planning Community Infrastructure (Planning)** awards support planning efforts to engage research communities to develop new CISE community research infrastructures (Planning).
- **Medium Community Infrastructure (Medium)** awards support the creation of new CISE community research infrastructure or the enhancement of existing CISE community research infrastructures with integrated tools, resources, user services, and research community outreach to enable innovative CISE research opportunities to advance the frontiers of the CISE core research areas. The **Medium** award class includes **New (New) and Enhance/Sustain (ENS)** awards.
- **Grand Community Infrastructure (Grand)** awards support projects involving significant efforts to develop new CISE community research infrastructures or to enhance and sustain an existing CISE community research infrastructure to enable world-class CISE research opportunities for broad-based communities of CISE researchers that extend well beyond the awardee organization(s).

Each CCRI **Medium or Grand** award may include support for operation of the infrastructure, ensuring that the awardee organization(s) is (are) well positioned to provide a high quality of service to CISE community researchers expected to use the infrastructure to realize their research goals.

Awards: Standard and Continuing Grants; **Anticipated Funding Amount:** \$25,000,000

With up to 10 **Planning** awards, up to 12 **Medium** awards, and up to 3 **Grand** awards in each competition. The majority of the **Medium** awards will be for up to three years and in the \$1,000,000 - \$2,000,000 range per award. A small number of **Grand** awards will be for up to five years and in the \$2,000,000 - \$5,000,000 range per award. The majority of the **Planning** awards will be for up to one and one-half years and in the \$50,000 - \$100,000 range per award.

Letters of Intent: December 15, 2020

Proposal Submission Deadline: January 28, 2021

Contacts: Mimi McClure, Program Director, CISE/CNS, telephone: (703) 292-8950, email: mmcclure@nsf.gov

- Tatiana D. Korelsky, Program Director, CISE/IIS, telephone: (703) 292-8930, email: tkorelsk@nsf.gov
- Yuanyuan Yang, Program Director, CISE/CCF, telephone: (703) 292-8067, email: yyang@nsf.gov

Grant Program: Collaborative Research in Computational Neuroscience (CRCNS)**Agency: National Science Foundation NSF 20-609****RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20609/nsf20609.htm>**Brief Description:** Computational neuroscience provides a theoretical foundation and a rich set of technical approaches for understanding complex neurobiological systems, building on the theory, methods, and findings of computer science, neuroscience, and numerous other disciplines.

Through the CRCNS program, the U.S. National Science Foundation (NSF), National Institutes of Health (NIH), and Department of Energy (DOE); the German Federal Ministry of Education and Research (Bundesministerium für Bildung und Forschung, BMBF); the French National Research Agency (Agence Nationale de la Recherche, ANR); the United States-Israel Binational Science Foundation (BSF); Japan's National Institute of Information and Communications Technology (NICT); and Spain's State Research Agency (Agencia Estatal de Investigación, AEI) and National Institute of Health Carlos III (Instituto de Salud Carlos III, ISCIII) support collaborative activities that will advance the understanding of nervous system structure and function, mechanisms underlying nervous system disorders, and computational strategies used by the nervous system.

Two classes of proposals will be considered in response to this solicitation:

Research Proposals describing collaborative research projects, and**Data Sharing Proposals** to enable sharing of data and other resources.**Awards:** Standard and Continuing Grants; **Anticipated Funding Amount:** \$5,000,000 to \$20,000,000**Letters of Intent:** Not required**Proposal Submission Deadline:** December 10, 2020**Contacts:** Kenneth Whang, CRCNS Program Coordinator - NSF; Program Director, Division of Information and Intelligent Systems, National Science Foundation, telephone: (703) 292-5149, fax: (703) 292-9073, email: kwhang@nsf.gov

- Chantel Sanders, CRCNS Administrative Coordinator - NSF; Program Analyst, Division of Information and Intelligent Systems, National Science Foundation, telephone: (703) 292-2617, fax: (703) 292-9073, email: cesander@nsf.gov

Grant Program: Research Training Groups in the Mathematical Sciences (RTG)**Agency: National Science Foundation NSF 20-608****RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20608/nsf20608.htm>**Brief Description:** The long-range goal of the Research Training Groups in the Mathematical Sciences (RTG) program is to strengthen the nation's scientific competitiveness by increasing the number of well-prepared U.S. citizens, nationals, and permanent residents who pursue careers in the mathematical sciences, be they in academia, government, or industry. The RTG program supports efforts to improve research training by involving undergraduate students, graduate students, postdoctoral associates, and faculty members in structured research groups pursuing coherent research programs. Research groups supported by RTG must include vertically-integrated activities that span the entire spectrum of educational levels from undergraduates through postdoctoral associates.**Awards:** Standard and Continuing Grants; **Anticipated Funding Amount:** \$10,000,000**Letters of Intent:** Not required**Proposal Submission Deadline:** June 01, 2021**Contacts:** Swatee Naik, telephone: (703) 292-4876, email: snaik@nsf.gov

- Pawel J. Hitzzenko, telephone: (703) 292-5330, email: phitzzen@nsf.gov
- Eun Heui Kim, telephone: (703) 292-2091, email: eukim@nsf.gov

Grant Program: Advancing Informal STEM Learning (AISL)

Agency: National Science Foundation NSF 20-607

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20607/nsf20607.htm>

Brief Description: The **Advancing Informal STEM Learning (AISL)** program seeks to advance new approaches to and evidence-based understanding of the design and development of STEM learning opportunities for the public in informal environments; provide multiple pathways for broadening access to and engagement in STEM learning experiences; advance innovative research on and assessment of STEM learning in informal environments; and engage the public of all ages in learning STEM in informal environments. The AISL program supports six types of projects: (1) Pilots and Feasibility Studies, (2) Research in Service to Practice, (3) Innovations in Development, (4) Broad Implementation, (5) Literature Reviews, Syntheses, or Meta-Analyses, and (6) Conferences.

Awards: Standard and Continuing Grants; **Anticipated Funding Amount:** \$30,000,000 to \$39,000,000

Letters of Intent: Not required

Proposal Submission Deadline: January 21, 2021

Contacts: Address Questions to the Program, telephone: (703) 292-8616, email: DRLAISL@nsf.gov

Grant Program: Advanced Computing Systems & Services: Adapting to the Rapid Evolution of Science and Engineering Research

Agency: National Science Foundation NSF 20-606

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20606/nsf20606.htm>

Brief Description: The intent of this solicitation is to request proposals from organizations willing to serve as service providers (SPs) within the NSF Innovative High-Performance Computing (HPC) program to provide advanced cyberinfrastructure (CI) capabilities and/or services in production operations to support the full range of computational- and data-intensive research across all of science and engineering (S&E). The Advanced Computing Systems & Services program is intended to complement previous NSF investments in advanced computational infrastructure by provisioning resources, broadly defined to include systems and/or services, in two categories:

- Category I, Capacity Systems: production computational resources maximizing the capacity provided to support the broad range of computation and data analytics needs in S&E research; and
- Category II, Innovative Prototypes/Testbeds: innovative forward-looking capabilities deploying novel technologies, architectures, usage modes, etc., and exploring new target applications, methods, and paradigms for S&E discoveries.

This solicitation welcomes **only Category II proposals**.

Awards: Cooperative Agreement; **Anticipated Funding Amount:** \$5,000,000 per award. A total of \$10,000,000 is available for this solicitation, subject to the availability of funds. It is anticipated that 1-2 awards will be made at up to \$5,000,000 per award for up to five years.

Letters of Intent: Not required

Proposal Submission Deadline: December 03, 2020

Limit on Number of Proposals per Organization: 1

Contacts: Robert Chadduck, Program Director, CISE/OAC, telephone: (703) 292-8970, email: rchadduc@nsf.gov

- Alejandro Suarez, Associate Program Director, CISE/OAC, telephone: (703) 292-7092, email: alsuarez@nsf.gov
- Edward Walker, Program Director, CISE/OAC, telephone: (703) 292-4863, email: edwalker@nsf.gov

Grant Program: Focused Research Hubs in Theoretical Physics (FRHTP)**Agency: National Science Foundation NSF 20-605****RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20605/nsf20605.htm>

Brief Description: Focused Research Hubs in Theoretical Physics (FRHTP) are designed to enhance significant breakthroughs at an intellectual frontier of physics by providing resources beyond those available to individual investigators, so as to promote a collaborative approach to a focused topic while promoting the preparation of scientists at the beginning of their independent scientific careers. Although interdisciplinary aspects may be included, the bulk of the effort must fall within the purview of the Division of Physics. The successful hub will demonstrate: (1) the potential to advance science; (2) the enhancement of the development of early career scientists; (3) creative, substantive activities aimed at enhancing education, diversity, and public outreach; (4) potential for broader impacts, e.g., impacts on other field(s) and benefits to society; (5) a synergy or value-added rationale that justifies a group approach. The FRHTP will be funded for an initial duration of five years. The intent is that the research topics proposed are at the stage that the scientific goals of the hub can be achieved in the first five years of the project. The FRHTP awards will provide support only for postdoctoral researchers plus general support for hub-related activities. The FRHTP are not intended to provide additional support for senior personnel (individual PIs), graduate or undergraduate students. Instead, the FRHTP is intended to support postdoctoral researchers and enable collaborative interactions via support for travel, collaboration meetings and workshops.

Awards: Cooperative Agreement; **Anticipated Funding Amount:** \$3,750,000 to \$10,250,000**Letters of Intent:** Not required**Proposal Submission Deadline:** January 15, 2021**Contacts:** Bogdan Mihaila, telephone: (703) 292-8235, email: bmihaila@nsf.gov

- Julio R. Gea-Banacloche, telephone: (703) 292-7936, email: jgeabana@nsf.gov
- Robert Forrey, telephone: (703) 292-5199, email: rforrey@nsf.gov

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National Institutes of Health**Grant Program: BRAIN Initiative: Pilot resources for brain cell type-specific access and manipulation across vertebrate species (U01 Clinical Trial Not Allowed)****Agency: National Institutes of Health RFA-MH-20-556****RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-20-556.html>

Brief Description: The purpose of this FOA is to evaluate molecular or genetic technologies and create pilot production and distribution resources for cell type-specific access and manipulation reagents for several vertebrate species. Applicants to this FOA should propose demonstration projects for reagent resource production, validation, and dissemination. The proposed projects should be scalable. The proposed projects should demonstrate the potential to achieve as many of the following goals as possible. Applicants are required to address goals 1, 2, and 3:

1. Reagents enable unique access to many molecularly defined neural cell types that are found in a complex brain region or significant brain network of a vertebrate and that could exhibit distinct cellular, circuit, or behavioral functions.
2. Reagents are easily produced, disseminated, utilized, and stored.

3. Collection of reagents are catalogued for users in a brain atlas and registered to cell types based on molecular, anatomical, or other properties that can be referenced.
4. Reagents are applicable to both genetically tractable and less tractable organisms in common use by neuroscientists.
5. Specificity and efficiency of targeting brain cell types are validated to be quantitatively high and reproducible.
6. Toxic or perturbative effects to cells, tissues, and organisms are quantitatively low.
7. Access technologies provide flexibility to deliver various reporter, sensor, and effector payloads and are compatible with other methods of access.
8. Technologies to access cell types are potentially usable in human *ex vivo* brain tissue or cells to target gene editors or other effectors to disease-relevant circuits for future therapies.

Awards: Application budgets are not limited but need to reflect the actual needs of the proposed project.

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

Proposal Submission Deadline: February 11, 2021; October 19, 2021, by 5:00 PM local time of applicant organization.

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: Douglas S. Kim, Ph.D., National Institute of Mental Health (NIMH), Telephone: 301-827-6463, Email: douglas.kim@nih.gov

Grant Program: Genomic Data Analysis Network: Genomic Data Center (U24 Clinical Trial Not Allowed)

Agency: National Institutes of Health RFA-CA-20-053

RFP Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-CA-20-053.html>

Brief Description: This funding opportunity announcement (FOA) is designed to support genomic programs managed by the Center for Cancer Genomics (CCG). The overall goal of all CCG programs is to help elucidate the mechanisms of cancer initiation and evolution, as well as resistance to therapy by means of genomic characterization of well-annotated, high quality tumor samples. These data could, in the future, be used to identify and accelerate the development of new diagnostic and prognostic markers, new targets for pharmaceutical interventions, and new cancer prevention and treatment strategies. It is not the intent of this FOA to fund follow-up translational and functional studies, but rather to enable the cancer research community to develop a new generation of studies that will leverage the genomic findings from NCI programs for the benefit of cancer patients. NCI project data, both ongoing and completed, will provide a unique reference resource on cancer-specific genomic aberrations for the cancer research community at large. *To serve the overarching goals of NCI, this FOA solicits applications for highly collaborative Genome Data Analysis Centers (GDACs) that will, in aggregate, form the Genomic Data Analysis Network (GDAN).*

Awards: Application budgets are limited to \$300,000/year in direct costs, but need to reflect the actual needs of the proposed project. The NCI intends to support up to 10 GDAC awards for a total of \$10 million (total costs). Future year amounts will depend on annual appropriations.

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

Proposal Submission Deadline: November 12, 2020;

No late applications will be accepted for this FOA.

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: Jean C. ZenKlusen, PhD, National Cancer Institute (NCI), Telephone: 301-451-2144, Email: jz44m@nih.gov

Grant Program: NIH Blueprint for Neuroscience Research: Functional Neural Circuits of Interoception (R01, Clinical Trial Not Allowed)

Agency: National Institutes of Health RFA-AT-21-003

RFP Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-AT-21-003.html>

Brief Description: The NIH Blueprint for Neuroscience Research is a collaborative framework through which 14 NIH Institutes, Centers and Offices jointly support neuroscience related research, with the aim of accelerating discoveries and reducing the burden of nervous system disorders (for further information, see <http://neuroscienceblueprint.nih.gov/>).

The goal of this FOA is to enhance our fundamental understanding of interoception with a specific focus on dissecting and determining the function of neural circuits that connect peripheral organs/tissues with the central nervous system (CNS) via peripheral ganglia. . For this FOA, interoception science includes studies of the processes by which an organism senses, interprets, integrates, and regulates signals originating from within itself. The FOA encourages projects that combine diverse expertise and use innovative approaches to delineate interoceptive mechanisms at the molecular, cellular, circuitry, functional, and/or behavioral levels. Outcomes of this research will lay a critical foundation for future translational and clinical research on interoception as well as its roles in nervous system disorders. Studies of interoceptive neural circuits exclusively within the CNS may be more appropriate for [The BRAIN Initiative](#) funding opportunities. Applications in response to this FOA should budget for an annual investigator meeting organized by the NIH Blueprint for Neuroscience Research. Human subject research is not allowed under this FOA.

Awards: Application budgets need to reflect the actual needs of the proposed project. The budgets are limited to \$375,000 direct costs annually.

Letter of Intent: November 18, 2020

Proposal Submission Deadline: December 18, 2020

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: Wen G. Chen, M.MSc., Ph.D., National Center for Complementary and Integrative Health (NCCIH), Telephone:301-451-3989, Email: wen.chen2@nih.gov

Grant Program: Innovative Research in Cancer Nanotechnology (IRCN) (R01 Clinical Trial Not Allowed)

Agency: National Institutes of Health PAR-20-284

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-20-284.html>

Brief Description: IRCN awards are expected to advance employment of nanotechnology in understanding, diagnosing, and treating neoplastic diseases. Each proposed IRCN project is expected to generate new fundamental knowledge aiding the development of nanotechnology-based solutions to major problems in cancer biology and/or oncology. Typical efforts and applications in this area of research involve 1) demonstration of therapies based on nanoparticle delivery with the attempt to obtain improved

efficacy and 2) demonstration of diagnostic tools (*in vitro* or *in vivo*) with improved sensitivity and specificity. These are clearly important objectives, but it is often that the above goals can be accomplished without a full understanding of the therapeutic mode of action or insight into mechanisms contributing to improved sensitivity and specificity of diagnostics. Projects submitted to this FOA need to be designed differently. While proposing an innovative, nanotechnology-based solution to cancer biology and/or oncology problems, the project should focus on mechanistic studies. These studies are expected to address the fundamental understanding of nanomaterial and/or nano-device interactions with biological systems in the effort to uncover mechanisms governing effective delivery of nanoparticles and/or nano-devices to desired and intended cancer targets *in vivo* and/or successful operation of detection and diagnostic devices and sensors *in vitro*. *The innovative use of nanotechnology to solve cancer biology/oncology problems is viewed as more significant than innovation in nanotechnology itself (e.g., development of new nanomaterials).*

Awards: Application budgets are limited to \$450K in direct costs per year and need to reflect the actual needs of the proposed project.

Letter of Intent: Not applicable

Proposal Submission Deadline: November 4, 2020, May 6, 2021, November 4, 2021, May 5, 2021, November 3, 2022, May 4, 2023

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: Piotr Grodzinski, Ph.D. National Cancer Institute (NCI) Telephone 240-781-3305

Email: grodzinp@mail.nih.gov

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Department of Defense/US Army/DARPA/ONR/AFOSR

Grant Program: Verified Security and Performance Enhancement of Large Legacy Software (V-SPELLS)

Agency: Department of Defense DARPA - Information Innovation Office HR001120S0058

Website: <https://beta.sam.gov/opp/7dc5798bf5e74d8aa3df767edd3e0815/view>

Brief Description: The goal of the V-SPELLS program is to create a developer-accessible capability for piece-by-piece enhancement of software components with new verified code that is both correct-by-construction and compatible-by-construction, i.e., safely composable with the rest of the system. V-SPELLS will create practical tools for developers to gain benefits of formal software verification in incremental software (re)engineering rather than only in clean-slate introduction. V-SPELLS tools will enable developers to deliver assured incremental modernization of legacy systems in a manner that leverages verification technologies and reduces rather than raises risk. V-SPELLS aims to radically broaden adoption of software verification by enabling incremental introduction of superior technologies into systems that cannot be re-designed from scratch and replaced as a whole.

Awards: There are multiple technical areas for this solicitation. Currently, DARPA anticipates multiple awards in Technical Area 1, Technical Area 2 and Technical Area 3; and a single award for Technical Area 4. DARPA anticipates making multiple awards under this BAA, which has a total anticipated funding amount of approximately \$40 million.

Letter of Intent: Not Required

Proposal Deadline: September 9, 2020, 12:00 noon (ET)

Proposers Day: July 29, 2020

Contact Information: Dr. Sergey Bratus, Program Manager, DARPA/I2O

Grant Program: DoD Combat Readiness, Rapid Development and Translational Research Award

Agency: Department of Defense Dept. of the Army – USAMRAA W81XWH-20-S-CRRP

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=328340>

Brief Description: The CRRP vision is to deliver high-impact medical solutions throughout the continuum of care to increase survivability and readiness of the Warfighter in diverse operational settings. The program seeks to develop innovative solutions to increase medical readiness, mitigate fatalities, optimally treat life-threatening injuries, and promote positive long-term outcomes. While the CRRP focuses on capability gaps in frontline care, the program also considers how chronic disorders typically associated with pre-deployment readiness (e.g., sleep, gastrointestinal conditions) may influence the delivery of care in deployed environments and contribute to injury susceptibility and recovery. Innovations developed by CRRP-supported research may be applied proactively as a way to establish medical readiness ahead of deployment, in-theater at the point of injury or during periods of prolonged care, or during transport/en route care within and from theater to hospital settings. These solutions will not only help to minimize the morbidity and mortality of combat-related injuries sustained by the Warfighter, they will also often translate to civilian care.

Awards: The anticipated total costs budgeted for the entire period of performance for an FY20 CRRP RDTRA will not exceed \$2M.

Letter of Intent: Pre-Proposal Required

Proposal Deadline: Pre-Proposal/Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), September 10, 2020 • Invitation to Submit an Application: October 16, 2020 • Proposal/Application Submission Deadline: 11:59 p.m. ET, December 3, 2020

Contact Information: CDMRP Help Desk Phone: 301-682-5507 Email: Help@eBRAP.org

Grant Program: Defense Sciences Office Office-wide

Agency: Department of Defense DARPA - Defense Sciences Office HR001120S0048

Website: <https://beta.sam.gov/opp/36d6bc789b364142a0f7a267017b06d9/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 to the existing state of practice.

Awards: Multiple awards are anticipated; however, the level of funding for individual awards made under this solicitation has not been predetermined and will depend on the scope and quality of the proposals received, as well as the availability of funds.

Proposal Deadline: Executive Summary Due Date and Time: June 11, 2021, 4:00 p.m. o Proposal Abstract Due Date and Time: Abstracts may be submitted on a rolling basis until June 11, 2021, 4:00 p.m.

o FAQ Submission Deadline: June 2, 2021, 4:00 p.m. Proposals may be submitted on a rolling basis until June 11, 2021, 4:00 p.m

Contact Information: Phil Root, Deputy Director, DARPA/DSO o BAA Email: HR001120S0048@darpa.mil

Grant Program: C4ISR, Information Operations, Cyberspace Operations and Information Technology System Research

Agency: Department of Defense Naval Information Warfare Center Pacific N66001-20-S-4702

Website: <https://www.grants.gov/web/grants/search-grants.html>

Brief Description: Naval Information Warfare Center, Pacific (NIWC Pacific), is soliciting proposals in accordance with FAR 35.016, DoDGARS 22.315(a), and DoD Other Transactions (OT) Guide for Prototype Projects for research in areas relating to the advancement of C4ISR capabilities, enabling technologies for Information Operations and Cyberspace Operations, and Information Technology systems. Submissions in response to this announcement shall be for areas relating to the advancement of Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) capabilities, enabling technologies for Information Operations and Cyberspace Operations, and Information Technology systems. Proposed research should investigate unique and innovative approaches for defining and developing next generation integratable C4ISR capabilities and command suites. The area topics reflect the interest of the NIWC Pacific, but interest from other Team NAVWAR components could be generated and selections could be made for funding by other than NIWC Pacific. Only offers that are in the areas of basic research, applied research, advanced technology development, and advanced component development and prototypes will be considered (see Appendix A). Testing and optimizing of concepts or prototypes may be necessary. This may involve virtual simulation and/or laboratory as well as at sea measurements.

Awards: Multiple awards are anticipated

Proposal Deadline: Closing date; June 03. 2021 Any white papers received during that time shall only be considered for award of a contract, other transaction, grant, or cooperative agreement.

Contact Information: David Roden (Primary) Contract Specialist Telephone: (619) 553-2087 Email: David.Roden@navy.mil NIWC Pacific Code 22710 53560 Hull Street San Diego, CA 92152-5001

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Department of Transportation

Grant Program: Advanced Transportation and Congestion Management Technologies Deployment Initiative

Agency: Department of Transportation 693JJ320NF00010

Website: <https://www.fhwa.dot.gov/fastact/factsheets/advtranscongmtfs.cfm>

Brief Description: The DOT hereby requests applications to result in awards to eligible entities to develop model deployment sites for large scale installation and operation of advanced transportation technologies to improve safety, efficiency, system performance, and infrastructure return on investment. These model deployments are expected to provide benefits in the form of: • reduced traffic-related fatalities and injuries; • reduced traffic congestion and improved travel time reliability; • reduced transportation-related emissions; • optimized multimodal system performance; • improved access to transportation alternatives, including for underserved populations; • public access to real time integrated traffic, transit, and multimodal transportation information to make informed travel decisions; • cost

savings to transportation agencies, businesses, and the traveling public; or • other benefits to transportation users and the general public. This competitive ATCMTD Grant Program will promote the use of innovative transportation solutions. The deployment of these technologies will provide Congress and DOT with valuable real-life data and feedback to inform future decision-making.

Letter of Intent: Not Required

Proposal Deadline: August 31, 2020

Contact Information: Submit Questions to: ATCMTD@dot.gov

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Department of Agriculture:

Grant Program: NRCS's Regional Conservation Partnership Program

Agency: Department of Agriculture USDA-NRCS-NHQ-RCPPC-21-NOFO0001033

Website: <https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/financial/rcpp/>

Brief Description: The Regional Conservation Partnership Program (RCPP) promotes coordination of NRCS conservation activities with partners that offer value-added contributions to expand our collective ability to address on-farm, watershed, and regional natural resource concerns. Through RCPP, NRCS seeks to co-invest with partners to implement projects that demonstrate innovative solutions to conservation challenges and provide measurable improvements and outcomes tied to the resource concerns they seek to address. Successful RCPP projects embody the following core principles:

- **Impact**—RCPP applications must propose effective and compelling solutions that address one or more natural resource priorities to help solve natural resource challenges. Partners are responsible for evaluating a project's impact and results.
- **Partner Contributions**—Partners are responsible for identifying any combination of cash and in-kind value-added contributions to leverage NRCS's RCPP investments. It is NRCS's goal that partner contributions at least equal the NRCS investment in an RCPP project. Substantive partner contributions are given priority consideration as part of the RCPP application evaluation criteria.
- **Innovation**—NRCS seeks projects that integrate multiple conservation approaches, implement innovative conservation approaches or technologies, build new partnerships, and effectively take advantage of program flexibilities to deliver conservation solutions.
- **Partnerships and Management**—Partners must have experience, expertise, and capacity to manage the partnership and project, provide outreach to producers, and quantify the environmental outcomes of an RCPP project. RCPP ranking criteria give preference to applicants that meaningfully engage historically underserved farmers and ranchers.

Awards: Up to \$10,000,000; Anticipated available funding: \$360,000,000

Proposal Deadline: RCPP Classic Application Period Open through November 4, 2020

Contact Information: [NRCS RCPP Staff](#)

Grant Program: Agriculture and Food Research Initiative - Foundational and Applied Science

Agency: Department of Agriculture USDA-NIFA-AFRI-007692

Website: <https://nifa.usda.gov/funding-opportunity/agriculture-and-food-research-initiative-foundational-applied-science-program>

Brief Description: The AFRI Foundational and Applied Science Program supports grants in six AFRI priority areas to advance knowledge in both fundamental and applied sciences important to agriculture. The six priority areas are: Plant Health and Production and Plant Products; Animal Health and Production

and Animal Products; Food Safety, Nutrition, and Health; Bioenergy, Natural Resources, and Environment; Agriculture Systems and Technology; and Agriculture Economics and Rural Communities. Research-only, extension-only, and integrated research, education and/or extension projects are solicited in this Request for Applications (RFA). See Foundational and Applied Science RFA for specific details.

Letter of Intent: Required.

Awards: Up to \$15,000,000; Anticipated available funding: \$290,000,000

Proposal Deadline: Thursday, July 29, 2021

Contact Information: [AFRI Coordination Team](#)

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Department of Labor

Grant Program: Supply Chains Tracing Project

Agency: Department of Labor FOA-ILAB-20-04

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=328321>

Brief Description: The Bureau of International Labor Affairs (ILAB), U.S. Department of Labor (USDOL, or the Department), announces the availability of approximately \$8,000,000 total costs (subject to the availability of federal funds) for up to two cooperative agreements of up to \$4,000,000 total costs each to fund technical assistance projects to increase the downstream tracing of goods made by child labor or forced labor. 1 Project outputs include (1) increasing the number of tested supply chain tracing methodologies; (2) increasing the number of piloted tools for supply chain tracing; and (3) increasing the dissemination of supply chain tracing tools and methodologies to a broad range of stakeholders.

Awards: The duration of the project will be a maximum of 4.5 years (54 months) from the effective date of the award. If applying for both cooperative agreements, applicants may not combine applications into one—they must submit separate applications. Each application should request no more than \$4,000,000 total costs in funding and each application must separately meet all the requirements of this announcement. In the event that the same applicant is selected for award for both cooperative agreements, USDOL reserves the right to issue one cooperative agreement covering both proposals, and to adjust the budget accordingly for administrative costs.

Proposal Deadline: The closing date for receipt of applications under this announcement is September 8, 2020. Applications must be received no later than 4:00:00 p.m. Eastern Time.

Contact Information: Sue Levenstein, Grants Management Specialist. levenstein.susan.l@dol.gov

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Department of Commerce/EDA

Grant Program: FY2021 Marine Debris Research

Agency: U.S. Department of Commerce NOAA-NOS-ORR-2021-2006620

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=329047>

Brief Description: The NOAA Marine Debris Program (MDP), authorized in the Marine Debris Act (33 U.S.C. 1951-1958), provides funding to support eligible organizations to conduct research directly related to marine debris through field, laboratory, and modeling experiments. NOAA MDP invites applications for research that investigates and identifies the critical input pathways for marine debris introduction into the coastal zone (shoreline or nearshore), including evaluation of appropriate simultaneous pathways of

riverine transport downstream, surface runoff, stormwater discharge, and wind-driven transport, and degradation and fragmentation of debris during transport. Projects should be original, hypothesis-driven projects that have not previously been addressed to scientific standards. Successful proposals through this solicitation will be funded through cooperative agreements. Funding of up to \$2,000,000 is expected to be available for Marine Debris Research grants in Fiscal Year 2021 (FY21). Funding for this grant competition comes through the NOAA Marine Debris Program as annual or supplemental appropriations to the Office of Response and Restoration, National Ocean Service.

Awards: Typical awards will range from \$150,000 - \$300,000.

Letter of Intent: Applicants must submit a Letter of Intent (LOI) and receive an invitation from the NOAA MDP before submitting a full proposal. LOIs must be submitted as an email attachment to grants.marinedebris@noaa.gov by 11:59 pm Eastern Time on November 5, 2020.

Proposal Deadline: Full applications must be received by 11:59 p.m. Eastern Time, February 8, 2021.

Contact Information: Tom Barry tom.barry@noaa.gov, 202-870-2863

Grant Program: FY21 Effects of Sea Level Rise (ESLR)

Agency: U.S. Department of Commerce NOAA-NOS-NCCOS-2021-2006594

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=328992>

Brief Description: The purpose of this document is to advise the public that NOAA/NOS/National Centers for Coastal Ocean Science (NCCOS)/Competitive Research Program (CRP) [formerly Center for Sponsored Coastal Ocean Research (CSCOR)/Coastal Ocean Program (COP)], is soliciting proposals for the Effects of Sea Level Rise Program (ESLR). The program name was shortened in 2020, and was formerly known as the Ecological Effects of Sea Level Rise Program (EESLR). This solicitation is to improve adaptation and planning in response to regional and local effects of sea level rise and coastal inundation through targeted research on key technologies, natural and nature-based infrastructure, physical and biological processes, and model evaluation. The overall goal of the ESLR Program is to facilitate informed adaptation planning and coastal management decisions through a multidisciplinary research program that results in integrated models of dynamic physical and biological processes capable of evaluating vulnerability and resilience under multiple SLR, inundation, and management scenarios. Funding is contingent upon the availability of Fiscal Year 2021 Federal appropriations. It is anticipated that projects funded under this announcement will have a September 1, 2021 or September 1, 2022 start date.

Awards: It is anticipated that approximately \$1,200,000 may be available in Fiscal Year 2021 for the first year for some projects in each focus area, while an additional \$1,200,000 could be available in Fiscal Year 2022 for the first year for additional projects selected from this opportunity.

Letter of Intent: The required letters of intent (LOI) sent by e-mail to nccos.grant.awards@noaa.gov and must be received by 11:59 p.m. Eastern Time on October 16, 2020.

Responses to LOIs should be expected by October 30, 2020.

Proposal Deadline: Full applications must be received and validated by Grants.gov by 11:59 p.m. Eastern Time on January 7, 2021.

Contact Information: David Kidwell, Director, NCCOS/CRP, 240-533-0286, David.Kidwell@noaa.gov

Grant Program: STEM Talent Challenge

Agency: U.S. Economic Development Administration (EDA), U.S. Department of Commerce

Website: <https://www.eda.gov/oie/stem/>

Brief Description: EDA is seeking applications from eligible applicants to create and implement innovative science, technology, engineering and mathematics (STEM) apprenticeship models that complement their respective region's innovation economy. The STEM Talent Challenge is authorized under Section 28 of the Stevenson-Wydler Technology Innovation Act of 1980 (15 U.S.C. § 3723). The STEM Talent Challenge seeks to develop or expand regional workforce capacity to support high-growth, high-wage entrepreneurial ventures, industries of the future (which usually includes industries that leverage emerging technologies), and other innovation driven businesses that have a high likelihood of accelerating economic competitiveness and job creation in their respective regions and in the United States. The STEM Talent Challenge is designed to help communities with two activities – planning and development, and program implementation. A total of \$2 million has been appropriated for this program and EDA invites applications that maximize impacts across both activities within this program, though planning and development activities are optional.

Awards: Applicants may not request in excess of \$300,000 over an 18 to 24-month period of performance, of which no more than \$50,000 may support planning and development activities if such support is needed. A total of \$2 million has been appropriated for this program.

Proposal Deadline: The deadline for receipt of applications is 11:59 P.M. EASTERN TIME ON WEDNESDAY, OCTOBER 14, 2020.

Contact Information: For questions concerning this NOFO, you may contact the EDA Office of Innovation and Entrepreneurship: Email: oi@eda.gov; Phone: (202) 482-8001

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EPA

Grant Program: Center for Early Lifestage Vulnerabilities to Environmental Stressors

Agency: Environmental Protection Agency EPA-G2020-STAR-E1

Website: <https://www.epa.gov/research-grants/center-early-lifestage-vulnerabilities-environmental-stressors>

Brief Description: The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications to support a Center for Early Lifestage Vulnerabilities to Environmental Stressors. EPA is interested in supporting a transdisciplinary research center to better understand potential causal relationships among cumulative exposures to chemicals and non-chemical environmental stressors during early lifestages and modifying factors that result in adverse developmental health effects. Developmental health outcomes may include attention deficit/hyperactivity disorder (ADHD), reduced IQ, obesity, lessened self-regulatory capacities, anxiety, depression, attention problems, lower memory function, or structural changes to the brain. The application should include the development and demonstration of novel and revolutionary quantitative methods and approaches to integrate multidisciplinary data (epidemiology, toxicology, exposure science, risk assessment, public health, social science, and environmental science)

Award: Estimated Total Program Funding: \$1,900,000

Submission Deadline: November 12, 2020 : 11:59:59 pm Eastern Time

Contact: Technical Contact: Intaek Hahn, 202-564-4377;

Eligibility Contact: Ron Josephson, 202-564-7823; Electronic Submissions Contact: Debra M. Jones, 202-564-7839 [Intaek Hahn](#); [Ron Josephson](#); [DebraM Jones](#)

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Department of Energy

Grant Program: FY 2021 SBIR/STTR Phase I Release 1

Agency: Department of Energy DE-FOA-0002359

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

Brief Description: The Office of Science's mission is to deliver scientific discoveries and major scientific tools to transform our understanding of nature and advance the energy, economic and national security of the United States. The Office of Science is the Nation's largest Federal sponsor of basic research in the physical sciences and the lead Federal agency supporting fundamental scientific research for our Nation's energy future. For more information on the Office of Science mission please visit <https://science.osti.gov/>. The topic below is a collaborative topic among multiple programs in the Office of Science.

1. TECHNOLOGIES FOR MANAGING AND ANALYZING COMPLEX DATA IN SCIENCE AND ENGINEERING

Application Area 1: Advanced Data Analytic Technologies for Systems Biology and Bioenergy

Application Area 2: Technologies and Tools to Integrate and Analyze Data from Multiple User Facilities, Community Resources, Instruments and Data Systems

Application Area 3: Capabilities for Structuring, Mining and Extracting Knowledge from Chemical and Geochemical Data

Application Area 4: Capabilities for Management, Mining and Knowledge Extraction from Materials Databases

2. HPC CODE AND SOFTWARE TOOLS

3. HPC CYBERSECURITY

4. INCREASING ADOPTION OF HPC

5. TECHNOLOGIES FOR SHARING NETWORK PERFORMANCE DATA

6. EMERGING NETWORK TECHNOLOGIES

7. TECHNOLOGIES FOR EXTREME-SCALE COMPUTING

8. TECHNOLOGY TO FACILITATE THE USE OF NEAR-TERM QUANTUM COMPUTING HARDWARE

9. ADVANCED MICROFLUIDICS FOR X-RAY AND ELECTRON BEAMS

Awards: Maximum Phase I Award Amount: \$250,000 Maximum Phase II Award Amount: \$1,600,000

Letter of Intent: Tuesday, September 08, 2020 5:00pm ET

Submission Deadline: Monday, October 19, 2020 11:59pm ET

Contact: Carl Hebron Program Manager Phone 301-903-5707

[Program Manager's Email](#)

Grant Program: American-Made Solar Prize

Agency: Department of Energy National Renewable Energy Lab (NREL)

Website: <https://www.herox.com/solarprizeround4>

Brief Description: The American-Made Solar Prize is a \$3M competition organized by NREL to revitalize the US ecosystem of innovators and entrepreneurs in solar. Our goal is to rapidly develop new solar solutions and bring them to market.

The Solar Prize is an opportunity for anyone interested in accelerating ideas and solutions. The American-Made Network is designed to strengthen and scale the very best ideas and teams through three progressive prize competitions, the Ready! Set! Go! Contests. This network provides the tools and expertise to help projects succeed and is comprised of an unparalleled innovation system. These resources

will provide technical insight, product validation, and strategic support to teams throughout the competition. **Competing in the prize is easy!**

1. Identify an important problem you want to solve
2. Submit a 90-second video describing your challenge and proposed solution, team, and plan
3. Answer a short, four-question narrative and make a slide about this problem or challenge
4. Submit a two-page technical assistance request
5. Update your videos and statements as you advance through the contests.

Read more about preferred innovation approaches for the Prize at our [ProblemSpace](#) platform or attend the [Solar Prize information webinar](#) hosted by NREL on 8/19. When you're ready to go, share your idea at the [American-Made Solar Prize](#) application site.

Awards: Winning teams receive *up to \$500K in non-dilutive funding* in addition to in-kind support from the National Labs. To date, 60 winners from 23 different states have been selected over 3 rounds for a total of \$9M in funding

Letter of Intent: Please visit the [How to Compete in the American-Made Solar Prize page](#) to view the full rules for the American-Made Challenges Solar Prize.

Submission Deadline: October 8, 2020

Contact: Chris Richardson [ADL Ventures](#) - [Email](#)

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NASA

Grant Program: NASA Space Technology Graduate Research Opportunities - Fall 2021

Agency: NASA 80HQTR20NOA01-21NSTGRO-B4

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B2BC591E9-FFFA-4B1C-19A2-9283E5018B99%7D&path=&method=init>

Brief Description: NASA's Space Technology Mission Directorate (STMD) seeks to sponsor U.S. citizen, U.S. national and permanent resident graduate student research that has significant potential to contribute to NASA's goal of creating innovative new space technologies for our Nation's science, exploration, and economic future. The development of advanced and innovative space technologies is critical for our Nation to meet its goals to explore and understand the Earth, our solar system, and the universe. Space technology efforts will improve the Nation's leadership in key research areas, enable far-term capabilities, and motivate disruptive innovations that make science, space travel, space exploration and commercial space more effective, affordable, and sustainable. NASA Space Technology Graduate Researchers will improve America's technological competitiveness by providing the Nation with a pipeline of innovative space technologies. NASA's pursuit of a suite of revolutionary discoveries will also lead to major breakthroughs that are needed to address energy, health, transportation, and environmental challenges. This call for graduate student space technology research proposals, titled NASA Space Technology Graduate Research Opportunities – Fall 2021 (NSTGRO21), solicits proposals on behalf individuals pursuing or planning to pursue master's or doctoral (Ph.D.) degrees in relevant space technology disciplines at accredited U.S. universities.

Awards: Student Stipend \$36,000 Faculty Advisor Allowance \$11,000 Visiting Technologist Experience Allowance \$10,000 Health Insurance Allowance \$2,500 Tuition and Fees Allowance \$20,500 TOTAL \$80,000

Notice of Intent: Please see below.

Proposal Deadline: Deadline for submission of proposal November 2, 2020 at 6 PM ET, 3 PM PT
Deadline for submission of Letters of Recommendation November 5, 2020 at 6 PM ET, 3 PM PT

Selection notification April 6, 2021 (target) Deadline for intent to accept April 27, 2021 (target) Deadline for submission, by university, of budget with justification and PI CV May 11, 2021 (target)

Contact: Claudia Meyer [Program Executive](#)

Grant Program: ROSES 2020: Carbon Cycle Science

Agency: NASA NNH20ZDA001N-CARBON

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId={4613663C-BD94-C1FF-E216-5032790DD390}&path=&method=init>

Brief Description: The Marine and Terrestrial Ecosystems and Natural Resources Management Panel of the 2017 Decadal Survey for Earth Science and Applications from Space (ESAS) of the National Academies of Sciences, Engineering, and Medicine (NASEM) Thriving on Our Changing Planet: A Decadal Strategy for Earth Observations from Space identified several science and application questions which are essential to understanding how the Earth system is changing, what the impact to ecosystems may be, how this may affect the services they provide (i.e., benefits people obtain from ecosystems, such as provisioning of water and food and absorbing human-generated carbon dioxide from the atmosphere), and how the structure of these ecosystems affects the fluxes of carbon, nutrients, and energy between and across the Earth system. In addition, recent investments in synthesis research, such as the Second State of the Carbon Cycle Report (SOCCR2), as well as recent meetings, for example the 2019 OCB OceanAtmosphere Interactions workshop and 2019 AGU Chapman Conference on Understanding Climate-Carbon Feedbacks, have highlighted key priority areas of research needed to fill important scientific knowledge gaps that will help inform decision-making stakeholders about carbon management and mitigation strategies and improved resilience

Awards: Expected total program budget: \$4.5M/year

Notice of Intent: September 28, 2020

Proposal Deadline: December 3, 2020

Contact: Laura Lorenzoni, Program Manager, Ocean Biology and Biogeochemistry Program
Telephone: (202) 358-0197 Email: Laura.Lorenzoni@nasa.gov

Grant Program: ROSES 2020: Science Team for the OCO Missions

Agency: NASA NNH20ZDA001N-OCOST

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B7B9745C4-04AD-74F8-59B7-3CF0C8EF15E3%7D&path=&method=init>

Brief Description: Proposals are solicited for participation in the Science Team for the Orbiting Carbon Observatory-2 (OCO-2) and Orbiting Carbon Observatory-3 (OCO-3) missions. NASA launched the OCO-2 mission in July 2014. OCO-2 has been operating on orbit, producing precise column average CO₂ concentration data globally with validated precision and accuracy of better than 0.25% , since September 2014. The OCO-3 mission, with a near-replica instrument to OCO-2, has been operating on the International Space Station (ISS) since June of 2019 and is now returning data with similar precisions as OCO-2. The primary differences in the data sets are the spatial and temporal sampling as a result of the different orbits of the observations (especially inclination) and the available observational modes of the instruments.

Awards: Funding anticipated: \$3,500,000

Notice of Intent: November 13, 2020

Proposal Deadline: January 13, 2021

Contact: Kenneth W. Jucks, Earth Science Division, Science Mission Directorate, NASA Headquarters

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National Endowment of Humanities

Grant Program: Digital Humanities Advancement Grants

Agency: National Endowment for the Humanities 20210115-HAA

Website: <https://www.neh.gov/grants/odh/digital-humanities-advancement-grants>

Brief Description: Digital Humanities Advancement Grants (DHAG) support innovative, experimental, and/or computationally challenging projects at different stages throughout their lifecycles, from early start-up phases through implementation and sustainability. Experimentation, reuse, and extensibility are hallmarks of this program, leading to innovative work that can scale to enhance scholarly research, teaching, and public programming in the humanities. This program is offered twice per year. Proposals are welcome for digital initiatives in any area of the humanities.

In support of its efforts to advance digital infrastructures and initiatives in libraries and archives, and subject to the availability of funds and IMLS discretion, the [Institute of Museum and Library Services](#) (IMLS) anticipates providing funding through this program. These funds may support some DHAG projects that further the IMLS mission to advance, support, and empower America's museums, libraries, and related organizations. IMLS funding will encourage innovative collaborations between library and archives professionals, humanities professionals, and relevant public communities that advance preservation of, access to, and public engagement with digital collections and services to empower community learning, foster civic cohesion, and strengthen knowledge networks. This could include collaborations with community-based archives, community-driven efforts, and institutions or initiatives representing the traditionally underserved. Interested applicants should also refer to the current [IMLS Strategic Plan](#) for additional context.

Award: Maximum award amount: Level I: \$50,000; Level II: \$100,000; Level III: \$325,000 in outright funds, with an additional \$50,000 in matching funds

Proposal Deadline: Optional Draft due: December 1, 2020: Application due: January 15, 2021

Contact: Contact the Office of Digital Humanities Team odh@neh.gov

Grant Program: Scholarly Editions and Scholarly Translations

Agency: National Endowment for the Humanities 20201202-RQ

Website: <https://www.neh.gov/grants/research/scholarly-editions-and-translations-grants>

Brief Description: The Scholarly Editions and Scholarly Translations program provides grants to organizations to support collaborative teams who are editing, annotating, and translating foundational humanities texts that are vital to learning and research but are currently inaccessible or are available only in inadequate editions or translations. Typically, the texts are significant literary, philosophical, and historical materials, but other types of work, such as musical notation, may also be the subject of an edition.

The program supports continuous full-time or part-time activities during the periods of performance of one to three years. Projects must be undertaken by at least two scholars working collaboratively. While international collaboration is permitted, projects must maintain an equitable balance between scholars at U.S. institutions and scholars at non-U.S. institutions. In addition to

supporting long-term editorial projects, the program also encourages applications for short-term projects and for projects that are at a planning stage.

Award: Maximum award amount \$300,000; up to \$450,000 may be available for projects that respond to “A More Perfect Union”: NEH Special Initiative Advancing Civic Education and Celebrating the Nation’s 250th Anniversary.

Proposal Deadline: Application due December 2, 2020

Contact: Contact the Division of Research Programs Team; 202-606-8200; editions@neh.gov

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Private Foundations

New Jersey Health Foundation

Grant Program: Innovation Grants Program

Agency: New Jersey Health Foundation

Website: <https://www.njhealthfoundation.org/>

Brief Description: The Innovation Grants Program helps researchers and students at our affiliated organizations -- Kessler Foundation, New Jersey Institute of Technology, Princeton University, Rowan University, Rutgers University and Stevens Institute of Technology -- continue to advance their research by providing grants of up to \$50,000 to support further development of their work. Grants must be used to fund only direct program costs. Grants cannot be used to fund overhead, tuition or any other indirect costs. We created the Innovation Grants Program to help address an important need of researchers in the middle stage of our funding continuum – in between very early research ideas and those ready to form companies.

Many of the researchers who receive Innovation Grants have great ideas but lack access to funding and other resources to further their research. Most do not have an understanding of the business processes required to achieve their goal – proof of concept and commercialization of their work to make their device or treatment available to those who need it. Our commitment to the researchers and students goes beyond the grant funding we provide. Our team provides mentoring and direction to researchers. Recently supported projects hold the promise of creating tremendous benefits for society. Researchers are investigating ways to detect the early onset of dementia, investigating novel treatments for alcohol use disorder, combating diabetes, treating intraocular diseases, developing insect repellents to improve global health, and researching approaches to combat cancers and allergic inflammation. To obtain more information, please click [here](#).

Awards: Full-time faculty members, staff and other personnel at these organizations are eligible to apply for grants of up to \$35,000 each under the Research Grant Program and grants up to \$25,000 each under the Community Health and Social Service Grant Program to fund health-related community and social service projects.

Proposal Deadline: Applications will be accepted from September 21, 2020 through November 13, 2020. We have committed at least \$1,000,000 in the current cycle of our Research and Community Health and Social Service Grants Programs.

Contact: If you have any questions, please don't hesitate to send an e-mail to researchgrant@njhf.org.

Blavatnik Family Foundation

Grant Program: Blavatnik National Awards Laureate Program

Agency: Blavatnik Family Foundation

Website: <http://blavatnikawards.org/awards/national-awards/>

Brief Description: The Blavatnik National Awards honor America's most innovative young faculty-rank scientists and engineers. These awards celebrate the past accomplishments and future potential of young faculty members working in the three disciplinary categories of Life Sciences, Physical Sciences & Engineering, and Chemistry.

Nominations are accepted from an [invited group](#) of research universities, independent research institutions, academic medical centers, and government laboratories from around the United States, as well as from the Awards' own [Scientific Advisory Council](#), composed of renowned science and technology leaders. Past Laureates of the Blavatnik National Awards are also invited to submit nominations. The program expands on an awards program, started in 2007, for young scientists in New York, New Jersey, and Connecticut. NJIT is now invited to submit a nomination.

Awards: Every year, one Blavatnik National Awards Laureate in each disciplinary category will receive \$250,000 in unrestricted funds, and additional nominees will be recognized as Finalists.

Proposal Deadline: Nomination window now open for the 2021 Blavatnik National Awards until October 28, 2020.

Contact: If interested, please contact Atam Dhawan, Senior Vice Provost for Research at dhawan@njit.edu.

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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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