

NJIT Research Newsletter

Issue: ORN-2020-38

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

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: Research on Emerging Technologies for Teaching and Learning (RETTL); 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)

NIH: BRAIN Initiative Fellows (F32); 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: Community Connect Grant Program; 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: Buildings Energy Efficiency Frontiers & Innovation Technologies (BENEFIT); FY 2021 SBIR/STTR Phase I Release 1; American-Made Solar Prize

NASA: University Student Research Challenge; 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: Collaborative Research; 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: Guiling Wang (PI)

Department: Computer Science

Grant/Contract Project Title: Decentralized Vehicle Credential Management System Based on Consortium Blockchain

Funding Agency: FHWA - Federal Highway Administration

Duration: 09/23/20-09/22/23

PI: Gennady Gor (PI)

Department: Chemical and Material Engineering

Grant/Contract Project Title: Dynamics Simulations on Calcium Carbonate–Arginine–Dentin System

Funding Agency: Colgate-Palmolive Company

Duration: 09/16/20-09/15/21

PI: Zhi Wei (PI)

Department: Computer Science

Grant/Contract Project Title: Targeted Therapies in Melanoma

Funding Agency: NIH

Duration: 09/01/19-08/31/21

PI: Bin Chen (PI) and Sijie Yu (Co-PI)

Department: Center for Solar Terrestrial Research

Grant/Contract Project Title: Energetics of Solar Eruptions from the Chromosphere to the Inner Heliosphere Program

Funding Agency: NASA

Duration: 09/13/20-09/12/23

PI: Arijit Sengupta (PI)

Department: School of Applied Engineering and Technology

Grant/Contract Project Title: NIOSH (Region II) Education Resources Center - Occupational Safety

Funding Agency: Centers for Disease Control and Prevention

Duration: 07/01/20-06/30/23

PI: Dale Gary (PI), Gregory Fleishman (Co-PI) and Gelu Nita (Co-PI)

Department: Center for Solar Terrestrial Research

Grant/Contract Project Title: Dynamics of Solar Flares: Combining NASA Space Data with Microwave Imaging Spectroscopy

Funding Agency: NASA

Duration: 06/26/18-06/25/21

PI: Anand Oza (PI), Lou Kondic (Co-PI) and Boris Khusid (Co-PI)

Department: Mathematical Sciences, Chemical and Material Engineering

Grant/Contract Project Title: Phase Transitions in Colloid-Polymer Mixtures in Microgravity

Funding Agency: NASA

Duration: 11/05/19-11/04/21

PI: Kevin Belfield (PI)
Department: Chemistry and Environmental Sciences
Grant/Contract Project Title: AEOP Research & Engineering Apprenticeship Program
Funding Agency: U.S. Army (AEOP)
Duration: 06/01/20-09/30/20

PI: Jacob Chakareski (PI)
Department: Informatics
Grant/Contract Project Title: CIF: Small: Mobile Immersive Communication: View Sampling and Rate-Distortion Limits
Funding Agency: NSF
Duration: 09/01/20-12/31/20

PI: Atam Dhawan (PI)
Department: Office of Research
Grant/Contract Project Title: FY21-FY25 - The Health Alert Network
Funding Agency: NJ Department of Health
Duration: 07/01/20-06/31/21

PI: William Marshall (PI), Sam Gately (Co-PI) and Alex Haimovich (Co-PI)
Department: Technology and Business Development, Physics, Electrical and Computer Engineering
Grant/Contract Project Title: Value Engineering (VE), Asset Tracking, and Algorithms for Digital Systems Enhancements (DSE)
Funding Agency: U.S. Department of Army (Picatinny Arsenal)
Duration: 09/22/20-09/21/21

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In the News...

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

House Passes Legislation To Address Climate Change by Investing in Clean Energy Research And Development: The House of Representatives voted on and passed [H.R. 4447, the Clean Economy Jobs and Innovation Act](#). H.R. 4447 includes programs to develop and deploy clean energy resources; improve the efficiency of our homes and businesses; electrify our transportation sector; modernize the grid and enhance its resiliency; prioritize the needs of environmental justice communities; reduce carbon pollution from industrial and traditional sources; develop advanced nuclear energy technologies; and much more. This landmark bill contains over a dozen bipartisan pieces of legislation introduced by members of the Science, Space, and Technology Committee this Congress.

Forensic Science Research and Standards Legislation: The legislation establishes an interagency working group on forensic science research that is tasked with coordinating Federal investments and developing a unified Federal research strategy for forensic science research and standards and directs the

agencies responsible for forensics science to carry out research and other activities consistent with the strategy. The legislation also codifies the Organization of Scientific Area Committees (OSAC) at the National Institute of Standards and Technology (NIST), including specifying the overall structure and processes of the OSAC, and emphasizing broad stakeholder participation and input, scientific integrity, and transparency. Finally, the legislation directs NIST to carry out foundational studies for forensic science disciplines to identify gaps in scientific knowledge and opportunities to continue to strengthen such disciplines. A copy of the act is posted on the website [H.R. 8239, the Forensic Science Research and Standards Act of 2020](#).

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.

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

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Webinar and Events

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](#)

Event: National Research Experience and Mentoring (REM) Program - Informational Webinar

Sponsor: NSF

When: October 6, 2020 12.00 PM – 1.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=301178&org=NSF

Brief Description: The [REM program](#) seeks to advance scientific progress in research and innovation while broadening participation of underrepresented groups in science, technology, engineering, and mathematics (STEM) fields.

The REM program supports these goals through supplements to active Emerging Frontiers in Research and Innovation (EFRI) research awards and active Engineering Research Center (ERC) awards, as described in the FY 2021 REM Dear Colleague Letter (DCL):

- [Dear Colleague Letter: Opportunity for Active EFRI and ERC Awardees to Apply for Supplemental Funding through the Research Experience and Mentoring \(REM\) Program \(NSF 20-117\)](#)

The REM Informational Webinar will present a detailed description of the REM program and provide a forum for answering questions about the program and submitting a proposal.

To Join the Webinar: Register in advance for this

webinar: https://nsf.zoomgov.com/webinar/register/WN_p5YBex35TRSNSNzj8ZMIIdw

Event: National CSforAll Research-Practice Partnership Workshop

Sponsor: NSF

When: October 12, 2020 to October 16, 2020; 1.00 PM – 3.45 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=301136&org=NSF

Brief Description: This fall, The National Network of Education Research-Practice Partnerships (NNERPP) is excited to host a virtual RPP Development Workshop to support research-practice partnership teams applying for [NSF's Computer Science for All \(CSforAll\) RPP solicitation](#).

Teams will develop a deeper understanding of what an RPP is, how to form and sustain one, and how to design an RPP project or proposal. In particular, this virtual workshop will emphasize how to identify and refine the problem of practice your partnership seeks to address, strategies for how to carry out partnership research in support of the identified problem, evaluation questions related to improving your partnership efforts, and the kinds of data you will need to collect to inform and improve your project in a timely way. You will leave the workshop with a plan or outline for a project or proposal that you can further develop as an established team.

Each day of the workshop includes two blocks of 75 minutes each. During Monday through Thursday, in the first block we will offer information sessions that will present critical information from the workshop curriculum and answer questions from the entire group. In the second block during those four days, we

will offer the opportunity for one-on-one coaching with experienced coaches for additional customized support. ***This one-on-one coaching opportunity is open only to the first 36 teams who apply and get accepted.*** All subsequent teams who get accepted will be added to a waiting list for coaching. On Friday, the teams that have been selected for the additional coaching opportunity will sign up to meet individually with their coaches for a final feedback session.

To Join: For more detailed workshop information, please review the [workshop information on the NNERPP website](#). Note the times listed on the NNERPP website are in CST.

Event: POLITICO AI Summit: An AI-Powered World

Sponsor: POLITICO

When: October 15, 2020; 10.00 AM

Website: <https://www.politico.com/live-events/2020/10/15/politico-ai-summit-an-ai-powered-world-000985>

Brief Description: Artificial intelligence is changing the world we live in and how we live. The coronavirus pandemic has served as a testing ground for AI's potential with scientists incorporating AI into certain aspects of the public health response to the global crisis. But, while the spread of Covid-19 is providing more opportunities to experiment with AI, ongoing challenges remain around AI governance at the global level and how it is regulated at the federal and city levels in the U.S., its implications for the future of work, the economy, policing and law enforcement, and continued questions around data quality, privacy, ethics and racial equality.

On **Thursday, October 15**, join POLITICO as it virtually convenes its 3rd AI Summit in the U.S., bringing together policymakers, federal officials, technologists, private-sector executives, scientists and advocates to explore the future of AI as the world tries to recover from the pandemic and as the U.S. also deals with social unrest and a presidential election.

Featured Speakers to be announced.

To Join: Please register at the above URL.

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>

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Grant Opportunities

National Science Foundation

Grant Program: Research on Emerging Technologies for Teaching and Learning (RETTL)

Agency: National Science Foundation NSF 20-612

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20612/nsf20612.htm>

Brief Description: The purpose of the *Research on Emerging Technologies for Teaching and Learning (RETTL)* program is to fund exploratory and synergistic research in emerging technologies (to include, but not limited to, artificial intelligence (AI), robotics, and immersive or augmenting technologies) for teaching and learning in the future. The program accepts proposals that focus on learning, teaching, or a combination of both. The scope of the program is broad, with special interest in diverse learner/educator populations, contexts, and content, including teaching and learning in science, technology, engineering, and mathematics (STEM) and in foundational areas that enable STEM (e.g., self-regulation, literacy, communication, collaboration, creativity, and socio-emotional skills). Research in this program should be informed by the convergence (synthesis) of multiple disciplines: e.g., learning sciences; discipline-based education research; computer and information science and engineering; design; and cognitive, behavioral, and social sciences. Within this broad scope, the program also encourages projects that investigate teaching and learning related to futuristic and highly technological work environments.

Awards: Standard Grants; **Anticipated Funding Amount:** \$19,000,000

Letters of Intent: Not required

Proposal Submission Deadline:

January 25, 2021

Deadline for FY 2021 competition

October 18, 2021

Deadline for FY 2022 competition

October 17, 2022

Deadline for FY 2023 competition

Contacts: Amy L. Baylor, co-lead EHR, EHR/DRL, telephone: (703) 292-5126,

email: abaylor@nsf.gov

- Tatiana Korelsky, co-lead CISE, CISE/IIS, telephone: (703) 292-8930, email: tkorelsk@nsf.gov

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, Program Analyst, Division of Information and Intelligent Systems, NSF: (703) 292-2617, fax: (703) 292-9073, email: cesander@nsf.gov
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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. Hitczenko, telephone: (703) 292-5330, email: phitczen@nsf.gov
 - Eun Heui Kim, telephone: (703) 292-2091, email: eukim@nsf.gov
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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

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National Institutes of Health

Grant Program: BRAIN Initiative Fellows: Ruth L. Kirschstein National Research Service Award (NRSA) Individual Postdoctoral Fellowship (F32)

Agency: National Institutes of Health RFA-MH-20-620

RFP Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-20-620.html>

Brief Description: The integrated program of research and training supported by this FOA is intended for postdoctorates who are early in their postdoctoral training period in a given laboratory or research environment, rather than for advanced postdoctorates. Support for early postdoctoral training will maximize the training potential of this fellowship award. Given the interval when applications will be accepted (from 12 months prior to completing terminal degree requirements to 12 months after starting postdoctoral training), it is recognized that some applicants are unlikely to have had the opportunity to generate preliminary data for the proposed project. Accordingly, it is expected that there will be no preliminary data in the application, although inclusion of preliminary data is permissible.

The proposed research and training plan should focus on a research area and/or skill set that clearly and strongly complements the applicant's existing research expertise and skills and that will markedly broaden the applicant's knowledge and skills. For example, an applicant with existing skills in molecular neuroscience might propose a research training plan that emphasizes circuit-level neuroscience approaches to brain function. An applicant with existing neuroscience training might propose a research training plan that emphasizes neuroethics. An applicant trained in physics or statistics might propose a research training plan that emphasizes data-intensive/computational approaches to neuroscience. An applicant with research experience using non-human vertebrate animals might propose a research training plan using human subjects.

Awards: Individuals may receive up to 5 years of aggregate Kirschstein-NRSA support at the Award budgets are composed of stipends, tuition and fees, and institutional allowance.

Letter of Intent: November 9, 2020; July 10, 2021, March 11, 2022, November 9, 2022

Proposal Submission Deadline: December 9, 2020; August 10, 2021, April 11, 2022, December 9, 2022 by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on these dates. No late applications will be accepted for this Funding Opportunity Announcement. 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: Ashlee Van't Veer, PhD; National Institute of Mental Health (NIMH); Telephone: 301-443-3107; Email: Brain.Initiative.Training@nih.gov

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: Pilot Program for Transit-Oriented Development (TOD) Planning 2020 Notice of Funding

Agency: Department of Transportation FTA-2020-014-TPE

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

Brief Description: The Pilot Program for TOD Planning is intended to fund comprehensive planning that supports economic development, ridership, multimodal connectivity and accessibility, increased transit access for pedestrian and bicycle traffic, and mixed-use development near transit stations. The program also encourages identification of infrastructure needs and engagement with the private sector. Consistent with statutory direction, FTA is seeking comprehensive planning projects covering an entire transit capital project corridor, rather than proposals that involve planning for individual station areas or only a small section of the corridor. To ensure any proposed planning work reflects the needs and aspirations of the local community and results in concrete, specific deliverables and outcomes, transit project sponsors must partner with entities with land use planning authority in the transit project corridor to conduct the planning work.

The Pilot Program for TOD Planning helps support FTA’s mission of improving public transportation for America’s communities by providing funding to local communities to integrate land use and transportation planning around a new fixed guideway or core capacity improvement project. Per statute, any comprehensive planning funded through the program must examine ways to improve economic development and ridership, foster multimodal connectivity and accessibility, improve transit access for pedestrian and bicycle traffic, engage the private sector, identify infrastructure needs, and enable mixed-use development near transit stations.

FTA will hold a webinar on this funding opportunity at a date and time to be announced. The webinar will provide an overview of the program, describe eligible applicants and projects, and offer an opportunity for attendees to obtain answers to other questions.

Award: The Federal Transit Administration (FTA) announces the availability of approximately \$6.2 million in Pilot Program. FTA may award amounts ranging from \$250,000 to \$2,000,000.

Letter of Intent: Not Required

Proposal Deadline: An applicant must submit a proposal electronically by **11:59 p.m. Eastern Daylight Time on October 26, 2020.**

Contact Information: Dwayne Weeks, Office of Planning and Environment, (202) 493-0316, email: Dwayne.Weeks@dot.gov

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Department of Agriculture:

Grant Program: Community Connect Grant Program

Agency: Department of Agriculture RDRUS-CC-2021

Website: <https://www.rd.usda.gov/sites/default/files/CCFOAFY21.pdf>

Brief Description: The Agency encourages applications that will help improve life in Rural America. See information on the Interagency Task Force on Agriculture and Rural Prosperity found at www.usda.gov/ruralprosperity. Applicants are encouraged to consider projects that provide measurable results in helping rural communities build robust and sustainable economies through strategic investments in infrastructure, partnerships and innovation. Key strategies include: • Achieving e-Connectivity for Rural America • Developing the Rural Economy • Harnessing Technological Innovation • Supporting a Rural Workforce • Improving Quality of Life

Awards: Grant from \$100,000 to \$3,000,000 will be applied to this grant opportunity

Proposal Deadline: December 23, 2020

Contact Information: Contact Us at: https://www.rd.usda.gov/programs-services/communityconnect-grants#blocktabs-program_page--45.

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: H-1B One Workforce Grant Program

Agency: Department of Labor FOA-ETA-20-13

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=329075>

Brief Description: The Employment and Training Administration (ETA), U.S. Department of Labor (DOL, or the Department, or we), announces the availability of up to \$150 million in grant funds authorized under section 414(c) of the American Competitiveness and Workforce Improvement Act of 1998 (ACWIA), as amended (codified at 29 USC 3224a) for the H-1B One Workforce grant program. We expect to fund approximately 15–30 grants, with individual grant amounts ranging from \$500,000 to \$10 million. The purpose of this grant program is to fill critical shortages in economic regions by encouraging states and economic regions to work with industry stakeholders to develop dynamic workforce strategies that train workers and jobseekers for middle- to high-skilled H-1B occupations in key industry sectors, such as Information Technology (IT), advanced manufacturing, and transportation that are being transformed by technological advancements and automation, as well as other industries of the future that include artificial intelligence (AI), quantum information sciences (QIS), 5G/advanced communications, and biotechnology.

These grants will build proof of concepts of innovative training models that can be replicated by the broader workforce system. Applicants must build support for a common vision for responding to the workforce challenges within their state and economic regions, ensuring that their projects complement and leverage, but do not duplicate existing programs. By forging public-private partnerships—H-1B One Workforce Partnerships—applicants will bring together industry and employers, education and training providers, the workforce system, state and local government, and other entities that will work collaboratively to align resources in response to employer demand and to offer novel education and job training solutions that generate positive outcomes and results.

Awards: Awards up to \$10,000,000; Anticipated available funding: \$150,000,000.

Proposal Deadline: Nov 12, 2020 The closing date for receipt of applications under this announcement is November 12, 2020. Applications must be received no later than 4:00:00 p.m. Eastern Time.

Contact Information: Andrea Chism Grants Management Specialist Chism.Andrea.N@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: echnical 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: Buildings Energy Efficiency Frontiers & Innovation Technologies (BENEFIT) – 2020

Agency: Department of Energy DE-FOA-0002196

Website: <https://eere-exchange.energy.gov/#FoaIdaff0bc6d-95b0-4aa6-901b-2ef0a53e8f7e>

Brief Description: This FOA is being issued by the U.S. Department of Energy's (DOE) Office of Energy Efficiency and Renewable Energy (EERE) Building Technologies Office (BTO). This section describes the overall goals of BTO and the type of projects that are being solicited for funding support through this FOA. BTO's overall goal is to improve the energy productivity of buildings without sacrificing occupant comfort or product performance. Progress towards achieving this goal will make building energy costs more affordable to the benefit of American families and businesses.

The objective of this Funding Opportunity Announcement (FOA) is to research and develop next-generation building technologies that have the potential for significant energy savings and improved demand flexibility, affordability, and occupant comfort. An additional goal is to advance building construction, remodeling, and retrofit practices, and associated workforces.

EERE will conduct an informational webinar for potential applicants on October 5, 2020 at 1 pm ET. Attendance is not mandatory and will not positively or negatively impact the overall review of any applicant submissions. No new information other than that provided in the FOA will be discussed in the webinar. Register at:

<https://attendee.gotowebinar.com/register/4887457138440563723>

Awards: EERE expects to make a total of approximately \$80 million of federal funding available for new awards under this FOA, subject to the availability of appropriated funds.

Letter of Intent: Concept Paper Submission Deadline: 11/5/2020 5:00 PM ET

Submission Deadline: Full Application Submission Deadline: 1/20/2021 5:00 PM ET

Contact: EERE-ExchangeSupport@hq.doe.gov EERE eXCHANGE

- DE-FOA-0002196@netl.doe.gov FOA Questions

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: University Student Research Challenge

Agency: NASA NNH20ZEA001N-USRC

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?sollId=%7BC9CC1B80-9F50-7B37-2A9B-33CC623FA556%7D&path=&method=init>

Brief Description: USRC seeks to challenge students to propose new aeronautics ideas/concepts that are relevant to ARMD. Apart from this, the students also have the challenge of raising cost share funds through crowdfunding¹ platform. The process of creating and preparing a crowdfunding campaign acts as a teaching accelerator - requiring students to act like entrepreneurs and taking action. Understanding the market, fundraising and execution are major skills for a future entrepreneur. Crowdfunding also raises awareness in the general public about students' research. Finally, crowdfunding is being used to excite and bring in non-traditional communities in relationship with ARMD. USRC's strategic goals are: • Provide broad opportunities for students at different levels, including undergraduate and graduate, to participate in aeronautics research; • Assist in achieving aviation outcomes defined in the ARMD Strategic Implementation Plan ("Strategic Plan") [1] through NASA-complementary research.

Awards: About 5 awards; Available Funding: \$80,000

Notice of Intent: Not required.

Proposal Deadline: Three-page proposals for the next USRC cycle are due November 12, 2020. Proposals can also be submitted later and will be evaluated in two additional cycles with due dates: February 25, 2021 and June 24, 2021.

Contact: Quickest way to resolve questions about this NRA is to email questions to: HQ-USRC@mail.nasa.gov

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
Washington, DC 20546-0001 Telephone: 202-358-0476 Email: kenneth.w.jucks@nasa.gov[Back to Contents](#)

National Endowment of Humanities

Grant Program: Collaborative Research

Agency: National Endowment for the Humanities 20201202-RZ

Website: <https://www.neh.gov/grants/research/collaborative-research-grants>

Brief Description: Debate, exchange of ideas, and working together—all are basic activities that advance humanities knowledge and foster rich scholarship that would not be possible by researchers working on their own. The Collaborative Research program aims to advance humanistic knowledge through sustained collaboration between two or more scholars. Collaborators may be drawn from a single institution or several institutions across the United States; up to half of the collaborators may be based outside of the U.S. The program encourages projects that propose diverse approaches to topics, incorporate multiple points of view, and explore new avenues of inquiry in the humanities.

The program allows projects that propose research in a single field of study, as well as interdisciplinary work. Projects that include partnerships with researchers from the natural and social sciences are encouraged but must employ a humanistic research agenda. Partnerships among different types of institutions are welcome as well as new collaborations with international partners.

Proposed projects must aim to result in tangible and sustainable outcomes, for example, co-authored or multi-authored books; born-digital publications; themed issues of peer-reviewed journals; a series of peer-reviewed articles; and open-access scholarly digital resources. All project outcomes must incorporate interpretive work and collaboration to address significant humanities research questions.

Award: Maximum award amount: Up to \$250,000 (depending on funding category).

Proposal Deadline: Optional Draft due October 15, 2020; Application due December 2, 2020

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

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.

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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