NJIT Research Newsletter

Issue: ORN-2021-05

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: **National Robotics Initiative 3.0: Innovations in Integration of Robotics (NRI-3.0); Spectrum Innovation Initiative: National Center for Wireless Spectrum Research (SII-Center);** Advanced Cyberinfrastructure Coordination Ecosystem: Services & Support - Coordination Office (ACCESS-ACO); Designing Accountable Software Systems (DASS); Enabling Quantum Leap: Quantum Interconnect Challenges for Transformational Advances in Quantum Systems (QuIC-TAQS)

NIH: **Research on Biopsychosocial Factors of Social Connectedness and Isolation on Health, Wellbeing, Illness, and Recovery (R01);** NIH Blueprint for Neuroscience Research: Tools and Technologies to Explore Nervous System Biomolecular Condensates (R21); Biomedical Research Facilities (C06); BRAIN Initiative: New Concepts and Early-Stage Research for Recording and Modulation in the Nervous System (R21)

Department of Defense/US Army/DARPA/ONR: **National Defense Education Program (NDEP) for STEM; Research Interests of the United States Air Force Academy;** Data and Analysis Center (DAC); Science & Technology for Advanced Manufacturing Projects (STAMP)

Department of Transportation: High Priority Program – Innovative Technology Deployment (HP-ITD); INFRA Grants

Department of Agriculture: Equipment Grants Program; Biotechnology Risk Assessment Research Grants Program; Scientific Cooperation Research Program (SCRP); Agriculture and Food Research Initiative - Foundational and Applied Science

Department of Labor: Workforce Pathways for Youth Grant Program

Department of Commerce/EDA: **Graduate Student Measurement Science and Engineering (GMSE) Fellowship Program;** Measurement Science and Engineering (MSE) Research Grant Programs FY 2021 NIST Small Business Innovation Research Program (SBIR) Phase I; FY2021 to FY2023 NOAA Broad Agency Announcement (BAA)

EPA: **FY 2021 National Environmental Information Exchange Network Grant Program**

Department of Energy: **X-Strack: Programming Environments for Scientific Computing; Fossil Energy Based Prodcution, Storage, Transport and Utilization of Hydrogen Approaching Net-Zero or Net-Negative Carbon Emissions; Materials and Chemical Sciences Research for Quantum Information Science**

NASA: EARLY CAREER FACULTY; Heliophysics Flight Opportunities in Research and Technology

National Endowment of Humanities: Research and Development Awards for Faculty

Private Foundations: New Jersey Commission on Spinal Cord Research: NJCBR Research Program; Digital Technologies of Tomorrow QuickFire Challenge; NIH-POCTRN Centers: Point-Of-Care Technology Research Program

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Recent Research Grant and Contract Awards

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

PI: Alex Haimovich (PI)
Department: Electrical and Computer Engineering
Grant/Contract Project Title: End to End Machine Learning (E2EML (Fuze))
Funding Agency: DOTC- Advanced Technology International (ATI)
Duration: 06/25/20-08/31/23

PI: Vincent Oria (PI)
Department: Computer Science
Grant/Contract Project Title: NJIT Secure Computing Initiative
Funding Agency: NSF
Duration: 01/01/16-12/31/21

PI: Hyojin Kim (PI)
Department: Hillier College of Architecture and Design
Grant/Contract Project Title: Empirical Validation of Energy Simulation
Funding Agency: U.S. Department of Energy
Duration: 12/09/19-09/30/22

PI: Benjamin Thomas (PI)
Department: Physics
Grant/Contract Project Title: Monitoring Mosquito Eco-systems and Vector-Control Strategies Using a Stand-Off Optical sensor
Funding Agency: NIH
Duration: 02/01/21-01/31/23

PI: Zoi-Heleni Michalopoulou (PI)
Department: Mathematical Sciences
Grant/Contract Project Title: Geoacoustic Inversion in Shallow Water - Analytic and Optimization Methods
Funding Agency: ONR
Duration: 03/01/20-02/28/23

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In the News…

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

White House Is Keeping Space Force: The Biden administration has no plans to get rid of the military's newest branch, championed by former President Trump and eventually approved by Congress. "They absolutely have the full support of the Biden Administration," White House Press Secretary Jen Psaki said Wednesday. "We are not revisiting the decision to establish the Space Force." Rep. Mike Rogers, R-

Ala., the top Republican on the House Armed Services Committee and one of the largest champions for the Space Force, called for Psaki to apologize. "It's concerning to see the Biden administration's press secretary blatantly diminish an entire branch of our military as the punchline of a joke, which I'm sure China would find funny," Rogers told *Politico*. More information is available on the GoveExec website.

<u>Digital Privacy Technologies Act:</u> Federal agency-backed research to advance technology-based mechanisms for safeguarding individuals' sensitive digital details is at the core of bipartisan legislation put forward in both congressional chambers this week. The Promoting Digital Privacy Technologies Act, introduced by Reps. Haley Stevens, D-Mich., and Anthony Gonzalez, R-Ohio, and Sens. Catherine Cortez Masto, D-Nev., and Deb Fischer, R-Neb., would codify support for data anonymization tools, confidentiality-enabling algorithms and other privacy-enhancing technologies, or PETs, designed to help secure people's personal data. "My goal is to ensure that consumers have easy access to data protection while also reaping the rewards of data analysis applications," Stevens told *Nextgov* Friday. "We can also use this to make governmental processes more efficient."
Across the U.S., researchers turn to large-scale data analyses to garner big picture insights about health care, the economy, and other crucial elements of society—but the nation has yet to see the passage of a comprehensive, national data privacy policy to govern such pursuits. "Starting with the widespread adoption of digital storage in the early 2000s, the use of data for analytics, research and other applications has skyrocketed," Stevens said. It's accelerated exponentially amid the modern pandemic, and has what she called "enormous upsides," including the potential to help manage the spread of diseases like COVID-19, streamline business processes, combat criminal activities, facilitate traffic flows, and "improve countless other activities in everyday life." More information is posted on the NextGov website.

<u>Microsoft Partnership on New Cloud Service to DOD Microelectronics Project</u>: Microsoft is working with ten companies on a technology solution for the secure design of microelectronics using a new service in the Azure Government cloud region in support of a Defense Department program, according to a blog post. DOD announced Microsoft and IBM as the winners of a $24.5 million other transaction authority contract in October for a program called the Rapid Assured Microelectronics Prototype (RAMP) using Advanced Commercial Capabilities Project. The contract is part of a Defense Department effort to catalyze the U.S. microelectronics manufacturing base in order to undergird Pentagon emerging technology priorities like artificial intelligence, 5G communications, quantum computing and driverless vehicles, according to an October DOD press release.

In the blog post, Mujtaba Hamid, Azure's principal program manager, elaborated on Microsoft's RAMP work. The new cloud service addresses "Confidential and Secure Cloud Accessible Design Environment (CASCADE) such as, a secure, scalable, collaborative design, and manufacturing environment for Silicon and Microelectronics on Azure." The partner companies—Applied Materials, Inc.; BAE Systems.; Battelle Memorial Institute; Cadence Design Systems; GlobalFoundries; Intel Corporation; Nimbis Services, Inc.; Northrop Grumman; Siemens EDA, Synopsys, Inc.; and Zero ASIC Corporation—will be able to use Azure Government cloud services to develop a solution for the microelectronic supply chain. More information is posted on the NextGov website.

COVID-Cleaning Robots: SBIR Opportunities: The agency is now accepting applications for the first phase of its 2021 SBIR program. Artificial intelligence to inspect, fix and sanitize transit vehicles and robots that can independently decontaminate those and other travel assets are among an array of research solutions and concepts the Transportation Department intends to explore through its latest Small Business Innovation Research program. The agency on Thursday issued a solicitation for the first phase of its fiscal 2021 SBIR effort, inviting not-so-large entities to offer up fresh proposals for novel ideas to meet complex, federal research and development needs. It follows a pre-solicitation launched last month.

Offers will need to "demonstrate a sound approach to the investigation of an important transportation related scientific or engineering problem," officials note in the document, adding that and research will have to have "relevance to the improvement of some aspect of the national transportation system or to the enhancement of the ability of" DOT or its sub-components. The massive, mobility-focused agency is one of 11 that can currently conduct the government's competitive, awards-based SBIR programs, which are meant to stimulate low-risk, high-tech innovation and help advance the commercialization of products that meet federal needs.

For this specific 2021, phase I work, the Transportation Department intends to fund proposals across various research topics up to $150,000 a piece—and the resulting contracts are anticipated to play out over six months. Only those that successfully complete the first phase will be able to apply for the second. Research and demonstrations for some topics in that next round could be funded up to $1 million. Areas of research interest are organized in the solicitation under DOT's six operating administrations. The Federal Transit Administration, for instance, is keen to see how it can use AI to keep its vast transit vehicle fleet in working order. It's also on the hunt for research and prototypes for autonomous robots that can be used to disinfect and decontaminate buses, trains and other transit assets or facilities. More information is posted on the NextGov website.

Army Corps of Engineers Plans Next Moves for Autonomous Vehicle Research Testbed: After embarking on the initial buildout of a testbed to pilot self-driving shuttles and other smart transportation technologies at Fort Carson, the U.S. Army Corps of Engineers aims to extend experimentation into the Colorado Springs local community that surrounds the base. The Corps plans to tap into sensors, artificial intelligence models and other tools to incorporate traffic and weather-related data in that expansion. And in doing so, it expects to again partner with U.S. Ignite, a National Science Foundation-rooted organization designed to advance next-generation networking applications for that in-the-pipeline effort, according to a presolicitation published this week.

"Due to the unique knowledge and experience gained under [previous research and development] efforts regarding Fort Carson facilities, U.S. Ignite possesses the unique intellectual capital to provide the highly specialized services required to meet the government's current scope of work," officials note in the document. More information is posted on the NextGov website.

DOD to Try Out Its Vulnerability Disclosure Program with Contractors: The Defense Department's Cyber Crime Center will soon be accepting applications for a limited number of companies within the defense industrial base to benefit from security researchers already working for the department. "If you're a small to medium sized DIB company and are interested in attending an industry day on Feb. 12th to learn how this free, DoD-provided capability will improve your #cyberhygiene please send an email to DIB-VDP@dc3.mil for an invite," the center recently wrote in a pair of tweets. "Application window opens after event!"

DOD's Cyber Crime Center already hosts a voluntary cybersecurity program with a collaborative information sharing environment which includes over 720 companies, according to Carnegie Mellon's Software Engineering Institute, which conducted a feasibility study on the expansion of the DOD's current vulnerability disclosure program. DOD sponsored the study by the institute, which is a leader in the vulnerability disclosure coordination space and a federally funded research and development center. More information is posted on the NextGov website.

HHS Establishes an AI Council: A recently produced enterprise artificial intelligence strategy is now in place to guide the Health and Human Services Department's ongoing and upcoming efforts involving the technology. The 7-page document outlines a strategic approach to broaden tech fluency and accelerate AI-centered pursuits across HHS—and it also establishes an AI Council to help facilitate the massive

health agency's overall implementation. "Ultimately, this strategy is the first step towards transforming HHS into an AI fueled enterprise," it reads.

The action plan was shared Sunday on social media by Oki Mek, the long-time, tech-focused federal official HHS recently selected to serve as its first-ever chief AI officer. In the LinkedIn post, Mek tagged former U.S. Chief Technology Officer Michael Kratsios and former Deputy HHS Secretary Eric Hargan, among others who served during former President Donald Trump's administration. Tucked in the strategy is a note that it aligns with two AI-centered executive orders Trump signed during his term, one to "maintain American leadership in AI," and another to "promote the use of trustworthy AI." More information is posted on the NextGov website.

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Webinar and Events

Event: Build and Broaden 2.0 Informational Webinar
Sponsor: NSF
When: February 9, 2021, 2020 2.00 PM – 3.30 PM
Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=301980&org=NSF
Brief Description: Please join NSF's Directorate for Social, Behavioral and Economic Sciences (SBE) for an informational webinar about the Build and Broaden 2.0 program.

The Build and Broaden program supports cutting-edge research, training opportunities and new research infrastructure in the social, behavioral and economic sciences at minority-serving institutions, including historically Black colleges and universities, Hispanic-serving institutions and tribal colleges and universities.

This event will feature:
- Remarks by SBE Assistant Director Dr. Arthur Lupia and SBE Deputy Assistant Director Dr. Kellina Craig-Henderson
- Presentations from SBE program directors about the Build and Broaden 2.0 program and solicitation
- A Q&A session for participants to ask questions

To Join the Webinar: Please register at Build and Broaden 2.0 ZoomGov Webinar Registration link.

Event: BIO-wide Virtual Office Hour: Preparing a Great NSF Budget
Sponsor: NSF
When: February 10, 2021, 2020 2.00 PM – 3.30 PM
Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=302006&org=NSF
Brief Description: Join the Directorate for Biological Sciences (BIO) for a BIO-wide virtual office hour! On Wednesday, February 10 from 2-3pm EST, we will discuss "How to Prepare a Great NSF Budget," with representatives from the Division of Grants and Agreements (DGA) followed by an open Q&A session. Questions should be broad and of potential interest to others.
To Join the Webinar: Please use this registration page to join us. Visit the MCB Blog to view upcoming office hour dates and topics as well as previous office hour presentations.

Event: Driving next-generation medicine discovery: Exposing causal biomarker–disease relationships using proteogenomics
Sponsor: AAAS
When: February 10, 2021, 12.00 PM – 1.00 PM

Website: https://www.sciencemag.org/custom-publishing/webinars/driving-next-generation-medicine-discovery-exposing-causal-biomarker

Brief Description: Developing the next generation of effective medicines will require approaches that deliver actionable insights into the biological processes and pathways underlying human health and disease. Protein biomarkers are increasingly utilized to stratify patients, predict outcomes and responses, and deepen our understanding of disease pathophysiology. Proteins represent the best real-time markers of dynamic biological processes, but they are not sufficient for researchers to assign a cause-and-effect relationship to the parameter(s) being studied. This issue can be addressed by combining genomics and proteomics to identify protein quantitative trait loci (pQTLs)—genetic variants linked to protein expression levels. Variants proximal to the gene encoding the protein (*cis*-pQTLs) can be used in combination with associated clinical parameters in Mendelian randomization analysis to identify proteins with a high probability of causal involvement in the disease being studied—proteins that could represent novel drug targets.

To Join the Webinar: Please register at the above URL.

Event: Entrepreneurship: Lessons from the Front Lines
Sponsor: NYIT and IEEE
When: February 11, 2021, 2020 5.00 PM – 6.00 PM
Website: https://www.nyit.edu/events/coecslectureseries1/

Brief Description: Starting your own business – it has a magical ring to it. There are lots of reasons people decide to jump into starting a new business. While there can be many rewards – independence, the fulfillment of a passion, financial – for most of us who have been entrepreneurs, the dream comes with its own risks and pains. Best to consider such an endeavor with a clear, rational mind considering the good and bad. Having successfully launched, grown, and sold a high profile product development professional services company, and having served countless early-stage and startup companies as clients, Mitch Maiman, President of Intelligent Product Solutions, will provide insights into the considerations and rewards around starting and owning your own business.

To Join the Webinar: Please register using the above URL.

Event: Predictive Intelligence for Pandemic Prevention (PIPP) Webinars
Sponsor: NSF
When: February 16, 2021 11:00 AM to February 17, 2021 6:45 PM
February 25, 2021 11:00 AM to February 26, 2021 6:00 PM
February 22, 2021 11:00 AM to February 23, 2021 6:00 PM
Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=302006&org=NSF

Brief Description: The Directorates for Biological Sciences (BIO); Computer Information Science and Engineering (CISE); Engineering (ENG); Social, Behavioral and Economic Sciences (SBE); and the Office of International Science and Engineering (OISE) at the National Science Foundation (NSF) are jointly supporting a series of interdisciplinary workshops to engage research communities around the topic of **Predictive Intelligence for Pandemic Prevention**. This topic arises both from fundamental scientific questions and pressing societal needs. Consequently, NSF is holding a series of virtual workshops that bring together interdisciplinary experts in the **biological, engineering, computer,** and **social and behavioral sciences** to start conversations and catalyze ideas on how to advance scientific understanding beyond state-of-the-art in pre-emergence and emergence forecasting, real-time monitoring, and detection of inflection point events in order to prevent and mitigate the occurrence of future pandemics. These goals will be met through integration of fundamental science and engineering advances related but not limited to: synergistic biological interactions spanning molecular, organismal, and epidemiological scales; computational algorithms and frameworks for intelligent

processing, analyzing and modeling of data; multiscale smart bio-sensing technologies, networked sensors, in-situ computation; understanding disease transmission due to human social behavior and attitudes and the drivers underlying both. As per our mission, these NSF supported workshops will focus on the foundational knowledge and capabilities needed to inform future infectious disease outbreak prediction and pandemic prevention.

Each of these workshops is expected to have up to 50 invited active participants. The community can participate in a listen-only mode and interact through chat and Q&A functions.

To Join the Webinar: Please register using the above URL.

Event: DMS Virtual Office Hours
Sponsor: NSF
When: February 23, 2021, 2020 2.00 AM – 3.30 PM
Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=302024&org=NSF
Brief Description: The Division of Mathematical Sciences (DMS) is hosting virtual office hours to share information about NSF's current operations and provide guidance to the mathematical sciences community. This will also allow the community to ask questions, share concerns, or offer suggestions on how DMS can do more to address the impact of COVID-19 on the research community. All members of the mathematics research community interested in the work of DMS are welcome to attend.

Events are planned at roughly monthly intervals, and the topics will vary for each event. The event will be in the form of a webinar, starting with a brief presentation of a few selected current topics, with DMS program directors available to answer questions from the community.

To Join the Webinar: Participants should register (and may do so in advance) at the web page
https://nsf.zoomgov.com/webinar/register/WN_i3NUN0EuQdqOqokddCH_9Q

Grant Opportunities

National Science Foundation

Grant Program: National Robotics Initiative 3.0: Innovations in Integration of Robotics (NRI-3.0)
Agency: National Science Foundation NSF 21-559
RFP Website: https://www.nsf.gov/pubs/2021/nsf21559/nsf21559.htm
Brief Description: The National Robotics Initiative 3.0: Innovations in Integration of Robotics (NRI-3.0) program builds upon the preceding National Robotics Initiative (NRI) programs to support fundamental research in the United States that will advance the science of robot integration. The program supports research that promotes integration of robots to the benefit of humans **including** human safety and human independence. Collaboration between academic, industry, non-profit, and other organizations is encouraged to establish better linkages between fundamental science and engineering and technology development, deployment, and use.

The NRI-3.0 program is supported by multiple agencies of the federal government including the National Science Foundation (NSF), the U.S. Department of Agriculture (USDA), the National Aeronautics and Space Administration (NASA), the Department of Transportation (DOT), the National Institutes of Health (NIH), and the National Institute for Occupational Safety and Health (NIOSH). Questions concerning a particular project's focus, direction, and relevance to a participating funding organization should be addressed to that agency's point of contact, listed in section VIII of this solicitation.

Awards: Standard Grant or Continuing Grant or Cooperative Agreement or contract vehicles as determined by the supporting agency

Estimated Number of Awards: 15 to 30

per year, subject to the availability of funds.

Projects will range from $250,000 to $1,500,000 in total costs for up to four years.

Anticipated Funding Amount: $12,500,000 to $14,100,000

Letters of Intent: Not required

Preliminary Proposal Due Date(s) *(required)* **(due by 5 p.m. submitter's local time):** April 19, 2021 - May 03, 2021; February 08, 2022 - February 22, 2022

Contacts: David Miller, telephone: (703) 292-4914, email: damiller@nsf.gov
- Scott Acton, CISE/CCF, telephone: (703) 292-2124, email: sacton@nsf.gov
- Radhakisan Baheti, ENG/ECCS, telephone: (703) 292-8339, email: rbaheti@nsf.gov

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Grant Program: Spectrum Innovation Initiative: National Center for Wireless Spectrum Research (SII-Center)

Agency: National Science Foundation NSF 21-558

RFP Website: https://www.nsf.gov/pubs/2021/nsf21558/nsf21558.htm

Brief Description: The worldwide growth of wireless communication, navigation, and telemetry has provided immense societal benefits including mobile broadband data, Internet of Things (IoT), mobile healthcare, and intelligent transportation systems. These and other applications call for innovations that can circumvent the challenges of radio spectrum scarcity and interference, and foster the growth of ubiquitous, high speed, low latency connectivity. Commercial applications like the above must operate in harmony with scientific uses of spectrum (e.g., radio astronomy, Earth and atmospheric sciences, and polar research) and other nationally vital spectrum-dependent services (e.g., weather prediction). The National Science Foundation (NSF) continues to support wireless spectrum research and the scientific uses of the electromagnetic spectrum through multiple programs that enable fast, accurate, dynamic coordination and usage of the limited spectrum resource. These programs have created an opportune ground to build and create a large center-based ecosystem for spectrum research, which is the target of this SII-Center program.

NSF's goal is to promote transformative use and management of the electromagnetic spectrum, resulting in profound benefits for science and engineering, industry, and other national interests. The focus of a spectrum research SII-Center must chart out a trajectory to ensure United States leadership in future wireless technologies, systems, and applications in science and engineering through the efficient use and sharing of the radio spectrum. The SII-Center should also seek to foster scientific and technical collaboration. The establishment of an SII-Center will have a transformational impact on wireless spectrum research by serving as a connecting point for the biggest and most challenging questions in spectrum management that the nation is facing. The SII-Center is expected to educate and develop an agile workforce needed to support industries of the future which will rely heavily on wireless technologies.

Awards: Cooperative Agreement; Number of Award: 1; Anticipated Funding Amount: $25,000,000

Letters of Intent: Required by March 01, 2021

Preliminary Proposal Due Date(s) *(required)* **(due by 5 p.m. submitter's local time):**
April 01, 2021 - April 30, 2021

Contacts: Bevin A. VanderLey, telephone: (703) 292-2428, email: SII-Center@nsf.gov
- Jonathan V. Williams, MPS/AST, telephone: (703) 292-2455, email: SII-Center@nsf.gov
- Alexander Sprintson, CISE/CNS, telephone: (703) 292-8950, email: SII-Center@nsf.gov

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Grant Program: Advanced Cyberinfrastructure Coordination Ecosystem: Services & Support - Coordination Office (ACCESS-ACO)
Advanced Cyberinfrastructure Coordination Ecosystem: Services & Support - Coordination Office (ACCESS-ACO)
Agency: National Science Foundation NSF 21-556 and NSF 21-555
RFP Website: https://www.nsf.gov/pubs/2021/nsf21556/nsf21556.htm
https://www.nsf.gov/publications/pub_summ.jsp?org=NSF&ods_key=nsf21556
Brief Description: The national research cyberinfrastructure (CI) ecosystem is essential to computational- and data-intensive research across all of 21st-century science and engineering (S&E), driven by rapid advances in a wide range of technologies; increasing volumes of highly heterogeneous data; and escalating demand by the research community. Research CI is a key catalyst for discovery and innovation and plays a critical role in ensuring US leadership in S&E, economic competitiveness, and national security, consistent with the NSF's mission. NSF, through the Office of Advanced Cyberinfrastructure (OAC), has published a vision that calls for the broad availability and innovative use of an agile, integrated, robust, trustworthy and sustainable CI ecosystem that can drive new thinking and transformative discoveries in all areas of S&E research and education. In support of this vision, NSF is releasing two solicitations in parallel: this solicitation, Advanced Cyberinfrastructure Coordination Ecosystem: Services & Support – Coordination Office (ACCESS-ACO), and Advanced Cyberinfrastructure Coordination Ecosystem: Services & Support (ACCESS). This solicitation focuses on the creation of a coordination office to support the collective and coordinated operation of the NSF ACCESS solicitation awardees. The ACCESS solicitation aims to establish a suite of CI coordination services—meant to support a broad and diverse set of requirements, users, and usage modes from all areas of S&E research and education—and calls for proposals for five independently-managed yet tightly-cooperative service tracks (see Figure 1 in the RFP).
Awards: Cooperative Agreement; Number of Award: 1; Anticipated Funding Amount: $5,000,000
Limit on Number of Proposals per Organization: 1
Letters of Intent: Not required
Preliminary Proposal Due Date(s) *(required)* **(due by 5 p.m. submitter's local time):** June 16, 2021
Contacts: Robert B. Chadduck, Program Director, CISE/OAC, telephone: (703) 292-2247, email: rchadduc@nsf.gov
- Alejandro Suarez, Associate Program Director, CISE/OAC, telephone: (703) 292-7092, email: alsuarez@nsf.gov

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Grant Program: Designing Accountable Software Systems (DASS)
Agency: National Science Foundation NSF 21-554
RFP Website: https://www.nsf.gov/pubs/2021/nsf21554/nsf21554.htm
Brief Description: The Designing Accountable Software Systems (DASS) program solicits foundational research aimed towards a deeper understanding and formalization of the bi-directional relationship between software systems and the complex social and legal contexts within which software systems must be designed and operate. The DASS program aims to bring researchers in computer and information science and engineering together with researchers in law and social, behavioral, and economic sciences to jointly develop rigorous and reproducible methodologies for understanding the drivers of social goals for software and for designing, implementing, and validating accountable software systems. DASS will support well-conceived collaborations between these two groups of researchers. The first group consists of researchers in software design, which, for the purposes of this solicitation, is broadly defined as formal methods, programming languages, software engineering, requirements engineering and human-centered

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computing. The second group consists of researchers in law and the social, behavioral, and economic sciences, who study social systems and networks, culture, social norms and beliefs, rules, canons, precedents, legal code, and routine procedures that govern the conduct of people, organizations, and countries.

Proposals for this program must create general advances in both (1) understanding the social, behavioral, economic and/or legal context of software design; and (2) improving the methodology for designing accountable software beyond specific use cases. Each proposal must have at least one Principal Investigator (PI) or co-PI with expertise in software design and at least one PI with expertise in law or a social, behavioral, or economic science. All proposals must contain a detailed collaboration plan that leverages the complementary expertise of the PIs/co-PIs in the designated areas and describes the mechanisms for continuous bi-directional collaboration.

Awards: Standard Grant or Continuing Grant; Anticipated Funding Amount: $7,500,000

Letters of Intent: Not required

Preliminary Proposal Due Date(s) *(required)* **(due by 5 p.m. submitter's local time):** April 19, 2021

Contacts: Nina Amla, Program Director, CISE/CCF, telephone: (703) 292-7991, email: dass@nsf.gov
- Anindya Banerjee, Program Director, CISE/CCF, Ph: (703) 292-7885, email: dass@nsf.gov
- Daniel R. Cosley, Program Director, CISE/IIS, telephone: (703) 292-8832, email: dass@nsf.gov

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Grant Program: Enabling Quantum Leap: Quantum Interconnect Challenges for Transformational Advances in Quantum Systems (QuIC-TAQS)
Agency: National Science Foundation NSF 21-553
RFP Website: https://www.nsf.gov/pubs/2021/nsf21553/nsf21553.htm

Brief Description: The **Quantum Interconnect Challenges for Transformational Advances in Quantum Systems (QuIC - TAQS)** program is designed to support interdisciplinary teams that will explore highly innovative, original, and potentially transformative ideas for developing and applying quantum science, quantum computing, and quantum engineering in the specific area of quantum interconnects. Quantum interconnects are an integral part of all aspects of quantum information science. Proposals should have the potential to deliver new concepts, new platforms, and/or new approaches that will implement the transfer of quantum states efficiently across platforms and over large length scales. Progress in the area of quantum interconnects will enable breakthroughs in quantum sensing, quantum communications, quantum simulations, and quantum computing systems. This Quantum Interconnect Challenges solicitation will support the process of translating such ideas into reality.

This solicitation calls for proposals focused on interdisciplinary research that enhances the development of quantum interconnects (QuIC) that would allow the transfer of quantum states between different physical states and/or different physical systems. Proposals must articulate how the project leverages and/or promotes advances in quantum interconnects. Proposals should be innovative and must focus on quantum functionality and must result in experimental demonstrations and/or transformative advances towards quantum systems and/or proof-of-concept validations. Competitive proposals will come from an interdisciplinary research team led by at least three investigators who collectively contribute synergistic expertise from expertise from a subset of the following domains: engineering, mathematics, computational science, computer/information science, physical, chemical, biological, material science. Proposals will be judged on how likely the integrated effort is to lead to transformative advances in quantum interconnection.

Awards: Standard Grant or Continuing Grant; Anticipated Funding Amount: $25,000,000

Letters of Intent: Not required

Preliminary Proposal Due Date(s) *(required)* **(due by 5 p.m. submitter's local time):** April 12, 2021

Full Proposal Deadline(s) (due by 5 p.m. submitter's local time): June 14, 2021

Limit on Number of Proposals per Organization: 1
Contacts: Quantum Interconnects, telephone: (703) 292-2980, email: quic@nsf.gov

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National Institutes of Health

Grant Program: Research on Biopsychosocial Factors of Social Connectedness and Isolation on Health, Wellbeing, Illness, and Recovery (R01 Basic Experimental Studies with Humans Required)
Agency: National Institutes of Health PAR-21-144
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PAR-21-144.html
Brief Description: OppNet is a trans-NIH initiative that funds research activities that build the collective body of knowledge on the nature of behaviors and social systems and deepen our understanding of basic social-behavioral mechanisms and processes. All OppNet initiatives invite investigators to propose research projects that will advance basic social and behavioral sciences and produce knowledge and/or tools of potential relevance to multiple domains of health research. All NIH Institutes and Centers that fund research and Program Coordination Offices within the NIH Office of the Director (ICOs) collectively manage OppNet's scientific direction yet may not participate in every OppNet FOA. Consequently, applicants should review the list of ICOs in this FOA's Components of Participating Organizations. For more information about OppNet, visit https://oppnet.nih.gov.
OppNet recognizes that basic research in the behavioral and social sciences can be conducted in a broad variety of settings, including general population and clinical samples. It can also be embedded within studies that include disease (or risk-factor) outcomes, as long as the focus of the study is on basic behavioral or social processes, basic biobehavioral or biosocial interrelationships, or methodology and measurement relevant to BSSR research. Applications submitted cannot include any specific aims that propose to measure clinical efficacy or effectiveness of any intervention. Investigators who wish to conduct studies with clinical endpoints as the primary outcomes should consider other NIH FOAs. The ICs participating in this FOA have specific interests and priorities listed below. OppNet strongly encourages researchers to contact Scientific/Research contacts well in advance of submitting applications.
Awards: Application budgets are not limited but need to reflect the actual needs of the proposed project.
Letter of Intent: Not required
Proposal Submission Deadline: March 17, 2021
All applications are due by 5:00 PM local time of applicant organization.
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: William Elwood, PhD; Office of Behavioral and Social Sciences Research (OBSSR) Telephone: 301-402-0116; Email: william.elwood@nih.gov

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Grant Program: NIH Blueprint for Neuroscience Research: Tools and Technologies to Explore Nervous System Biomolecular Condensates (R21 Clinical Trial Not Allowed)
Agency: National Institutes of Health RFA-DA-22-008
RFP Website: https://grants.nih.gov/grants/guide/rfa-files/RFA-DA-22-008.html
Brief Description: Despite the emerging importance of BMCs in neuroscience, the tools we have to monitor and manipulate BMCs *in vivo* in the nervous system are in their infancy. While there has been some limited *in vivo* analysis using optogenetic and chemical methods, much of our current understanding of BMC physics and biology come from *in vitro* studies and to a lesser extent studies in cultured cells.

Establishment of new tools that exploit advances in imaging, optogenetic, chemogenetic, biophysical, single molecule, or other strategies would 1. enable *in vivo* BMC monitoring and manipulation and 2. provide much needed insight into BMC nervous system functions. This initiative would also support the development of high-throughput screening technologies to identify candidate molecules and regulators required for BMC formation and maintenance in the nervous system.

<u>Research Objectives.</u> To support the development of innovative tools and/or technologies to monitor or manipulate BMCs *in vivo* and enable investigators to adopt these tools to answer outstanding questions in basic neuroscience. These tools or technologies have the potential to transform our understanding of the mechanistic role of BMCs in the human nervous system as well as advance our understanding of how condensate formation impacts cellular functions in nervous system health and disease. Recent studies indicate that small molecules that modulate condensate formation could serve as the foundation for the development of novel BMC-based therapeutics for nervous system diseases. It is anticipated that the tools developed by this initiative will be adopted by researchers to answer outstanding questions relevant to neurobiological processes or nervous system disorders of interest to the NIH Blueprint Neuroscience Institutes or Centers.

Awards: The combined budget for direct costs for the two year project period may not exceed $275,000. No more than $200,000 may be requested in any single year.

Letter of Intent: August 15, 2021

Proposal Submission Deadline: September 15, 2021

All applications are due by 5:00 PM local time of applicant organization.

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: John Satterlee, Ph.D., National Institute on Drug Abuse (NIDA), Telephone: 301-435-1020
Email: satterleej@nida.nih.gov

Grant Program: Biomedical Research Facilities (C06 Clinical Trial Not Allowed)
Agency: National Institutes of Health PAR-21-139
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PAR-21-139.html
Brief Description: NIH recognizes the importance of all institutions of higher learning in contributing to the nation's research capacity. NIH intends to make available at least 25% of the funds to support projects from Institutions of Emerging Excellence (as defined in 42 USC 283k(c)(2)). These institutions play a special role in advancing biomedical research as they leverage their research abilities to address problems of special relevance or unmet health needs. Often these institutions are in the geographical areas in which deficits in research resources and health-related services/technologies may adversely affect the health status of the population. Serving individuals from disadvantaged backgrounds by carrying out activities related to training, health services, or biomedical research contributes to the protection health of such populations. Such institutions often serve as centers for dissemination of health information, training development, and advancement of research. At times, low levels of NIH research funding and deficits in physical research infrastructure may curtail the full potential of these efforts.

It is expected that all projects - both from research-intensive institutions and Institutions of Emerging Excellence - will have long-term effects and will benefit the broad biomedical research community at the applicant institution by providing a modern research environment, accessible on a shared basis.

Requests for regular maintenance, replacement of aging or failing equipment, and other routine work are not appropriate for this FOA, and such requests will not be supported. Inappropriate are requests for upgrades of a space serving a single investigator. Also, equally inappropriate are requests to support facilities for billable medical care, office space, or classrooms.

Applicants may request funds for costs of design and implementation of the construction/modernization project. Specifically, the allowable costs include the architectural and engineering design fees, contingency fees, construction and fixed equipment costs, and commissioning costs of the facility - see the Funding Restrictions section for further details of allowable and non-allowable costs. Applicants are encouraged to follow sustainable design principles and to use green technologies.

Awards: Application budgets are not limited but need to reflect the actual needs of the proposed project. The maximum award budget is $8,000,000. Applications with a budget less than $3,000,000 will not be considered. Since the scope of different projects will vary it is anticipated that the size of the awards will vary.

Letter of Intent: February 17, 2021

Proposal Submission Deadline: March 17, 2021

All applications are due by 5:00 PM local time of applicant organization.

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: Malgorzata Klosek, Ph.D.; Office of Research Infrastructure Programs (ORIP); Telephone: 301-435-0744; Email: klosekm@mail.nih.gov

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Grant Program: BRAIN Initiative: New Concepts and Early-Stage Research for Recording and Modulation in the Nervous System (R21) (Clinical Trial Not Allowed)
Agency: National Institutes of Health RFA-EY-21-001
RFP Website: https://grants.nih.gov/grants/guide/rfa-files/RFA-EY-21-001.html
Brief Description: This FOA is related to the recommendations in sections II.2, II.3, and II.4 from the BRAIN 2025 Report. These three recommendations call for accelerated development of new large-scale recording technologies and tools for neural circuit manipulation. These new technologies and approaches will provide unprecedented opportunities for exploring how the nervous system encodes, processes, utilizes, stores, and retrieves vast quantities of information. A better understanding of this dynamic neural activity will enable researchers to seek new ways to diagnose, treat, and prevent brain disorders.

Achieving these goals requires the ability to record simultaneously from thousands or tens-of-thousands of neurons contributing to the dynamic activity in a neural circuit. The relevant activity may be in clusters of cells packed closely together or may be in widely distributed circuits. Current microelectrode and imaging technologies are limited in the number of cells from which activity can be isolated and sampled simultaneously, by the size or location of the area to be sampled, by the depth of penetration, and by the invasiveness of the technique that might prohibit their use in human experimentation. Non-invasive technologies suitable for use in humans are currently limited in spatial resolution and temporal dynamics, as well as in their reflection of on-going electrical activity in circuit elements. This FOA seeks entirely new ideas, concepts and/or approaches from physics and engineering, and biology, for how these limitations might be overcome to enable increased recording capabilities on the scale of one or more orders of magnitude beyond that of current technology.

This FOA is also related to the goals of the updated BRAIN 2.0 Report, which recommends expanding the functionality and integration of electrophysiological and neurochemical methods. The next generation of recording/modulation technology development should include efforts to improve cell-type and neurochemical specificity. Thus, an equally important goal of this FOA is to discover novel ideas for technology capable of precisely manipulating activity in circuits. Dissecting the function of neural circuits requires the ability to precisely activate or inactivate brain cells (both neuronal and non-neuronal) in order to investigate underlying mechanisms and demonstrate causality. Current technologies such as microstimulation and optogenetic approaches are limited in specificity, temporal dynamics, and by the invasiveness of the technique.

Awards: Application budgets may not exceed $400,000 **total direct costs** over a maximum three-year funding period. No more than $200,000 **total direct costs** may be requested in any single year.

Letter of Intent: Not required

Proposal Submission Deadline: May 3, 2021; October 29, 2021; May 2, 2022; October 28, 2022; May 1, 2023; October 27, 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: Martha Flanders, PhD; National Eye Institute (NEI); Telephone: 301-451-2020 Email: BRAIN-FOAs@nih.gov

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

Grant Program: Funding Opportunity Announcement (FOA) for the National Defense Education Program (NDEP) for Science, Technology, Engineering, and Mathematics (STEM), and Biotechnology Education, Outreach, and Workforce Initiative Programs and Enhanced Civics Education

Agency: Department of Defense HQ0034-21-S-F001

Website: https://www.grants.gov/web/grants/view-opportunity.html?oppId=330319

Brief Description: The Department of Defense (DoD) National Defense Education Program (NDEP) seeks innovative applications on mechanisms to implement Science, Technology, Engineering, and Mathematics (STEM) education, outreach, and/or workforce initiative programs, here onto referred as STEM activities. NDEP also seeks innovative applications on mechanisms to specifically implement Biotechnology outreach and workforce development, which here onto will be referred as Biotech activities. Additional NDEP efforts also includes a pilot program in Enhanced Civics education.

The Department intends to award multiple grants in STEM activities, Biotech activities, and Enhanced Civics subject to the availability of funds. Applications for larger amounts may be considered on a case-by-case basis.

1. For STEM activities, there will be two (2) award levels:

(i) STEM activities with maximum award of $3,000,000 over 3 years;

(ii) Scalable STEM activities with maximum award of $6,000,000 over four (4) years.

2. For Biotech activities, awards will have a maximum award of $3,000,000 over three (3) years.

3. For Enhanced Civics education, there will be one award, with a maximum of $2,000,000 for a period of two (2) years.

NOTE: Respondents are not required to address all three focus areas, but should direct their responses to one of the areas, 1 (STEM), 2 (Biotech), or 3 (Enhanced Civics Education).

Awards: Award Ceiling: $6,000,000; ward Floor: $2,000,000

Letter of Intent: Please see below.

Proposal Deadline: This FOA has a two-step application process, starting with a **MANDATORY** white paper submission. Selected applicants will be **invited by the Government via email** to submit a full technical application on Grants.gov for evaluation and possibly award consideration. White papers that fail to address the areas listed in the Funding Opportunity Description will not be evaluated and will not receive an invitation to submit a full technical application.

Contact Information: Chrissandra Smith Grantor work email

Grant Program: Research Interests of the United States Air Force Academy
Agency: Department of Defense Air Force Academy USAFA-BAA-2021
Website: https://www.grants.gov/web/grants/view-opportunity.html?oppId=330175
Brief Description: The USAFA invests in an active research program for three main reasons. First and foremost, research significantly enhances the cadet learning experience. Our research is done by, for and with cadets who work alongside fellow cadets and faculty mentors. Research provides cadets with rich independent learning opportunities as they tackle ill-defined problems and are challenged to apply their knowledge and abilities. Second, our research program provides opportunities essential for faculty development. Research broadens and deepens the experience base of the faculty. This infuses current, relevant, state-of-theart and cutting-edge applications and examples into the curriculum. This also helps our faculty remain current in their respective fields. Third, at USAFA we strive to conduct research to enhance the ability of the Air Force to perform its mission. There are ongoing research projects spanning topics as diverse as super hypersonics, cyber security, spatial disorientation, athletic performance and homeland defense. This BAA offers a vehicle for research to be performed to satisfy these three objectives, while also meeting research needs of industry counterparts/serve a public purpose. USAFA's partnerships with non-Government firms enables development in the public arena, stimulating the studies in the greater technical community. All awards issued against this BAA must serve to benefit the objectives identified above.
Awards: It is anticipated awards will be made in the form of any appropriate contract type under the FAR or NonFAR instruments (i.e., Other Transaction (OT) for research efforts, or grants and cooperative agreements).
Letter of Intent: Please see below.
Proposal Deadline: USAFA is seeking unclassified research white papers and proposals that do not contain proprietary information. Requests for white papers/proposals are also transmitted via calls which may be published separately from the BAA at various times during the open period of the BAA.
This announcement remains open until superseded. White papers are reviewed and evaluated as they are received and may be submitted at any time. The white paper/proposal submission process is discussed in sections IV and V of this BAA. Proposals will be due according to specific instructions contained in a separate RFP notice resulting from favorable white paper evaluations or calls issued against this BAA.
Contact   Information: Erica   Wilson   Contracting-Grants   Officer   Phone   719-333-8048
10 CONS/PKC Assistance Org Email Box

Grant Program: Science & Technology for Advanced Manufacturing Projects (STAMP)
Agency: Department of Defense Office of Naval Research N00014-21-S-B002
Website: https://www.grants.gov/web/grants/view-opportunity.html?oppId=329699
Brief Description: The Department of Defense Manufacturing Technology Program (ManTech) is the Defense Department's investment mechanism for staying at the forefront of defense-essential manufacturing capability. The Program develops technologies and processes for the affordable and timely production and sustainment of defense systems. The Program impacts all phases of acquisition. It aids in achieving reduced acquisition and total ownership costs by developing, maturing, and transitioning key manufacturing technologies. ONR will focus investments on those that have the most benefit to the warfighter and include quick-hitting, rapid response projects to address immediate manufacturing needs. The ManTech Program targets the needs of our warfighters and weapon system programs by helping to find and implement affordable low-risk solutions. The ManTech Program:
• Provides the crucial link between technology invention and development and industrial applications;

- Matures and validates emerging manufacturing technologies to support low-risk implementation in industry and DoD facilities, for example depots and shipyards;
- Addresses production issues from system development through transition to production and sustainment;
- Disseminates information concerning improved manufacturing improvement concepts, including information on such matters as best manufacturing practices, product data exchange specifications, computer-aided acquisition and logistics support, and rapid acquisition of manufactured parts; and
- Sustains and enhances the skills and capabilities of the manufacturing work force.

Awards: Multiple awards are anticipated.
Letter of Intent: Not required.
Proposal Deadline: This announcement will remain open until 30 October 2021 or until replaced by a successor BAA, whichever comes first.
Contact Information: Lynn Christian Contracting Officer For questions regarding this posting.
Questions of a technical nature should be submitted to: Point of Contact Name: Dr. William Mullins Point of Contact Occupation Title: Program Officer Division Title: Naval Materials Division Division Code: 332 One Liberty Center 875 N. Randolph Street Arlington, VA 22203-1995 Email Address: william.m.mullins@navy.mil

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Department of Transportation

Grant Program: 2021 High Priority Program – Innovative Technology Deployment (HP-ITD)
Agency: Department of Transportation FM-MHP-21-002
Website: https://www.grantsolutions.gov/gs/preaward/previewPublicAnnouncement.do?id=91864
Brief Description: These activities are supported in alignment with the U.S. Department of Transportation's strategic goals of: • SAFETY: Reduce transportation-related fatalities and serious injuries across the transportation system.• INFRASTRUCTURE: Invest in infrastructure to ensure safety, mobility and accessibility and to stimulate economic growth, productivity and competitiveness for American workers and businesses.• INNOVATION: Lead in the development and deployment of innovative practices and technologies that improve the safety and performance of the Nation's transportation system.• ACCOUNTABILITY: Serve the Nation with reduced regulatory burden and greater efficiency, effectiveness and accountability. This NOFO provides important information about the HP-ITD safety priorities, highlighting the critical information related to preparing and submitting an application.
Award: Various up to $2,000,000 per award; Available funding: $20,000,000
Letter of Intent: Not Required
Proposal Deadline: March 15, 2021
Contact Information: Thomas Kelly, Phone: 202-480-5240; Thomas.Kelly@dot.gov

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Grant Program: INFRA Grants
Agency: Department of Transportation NSFHP-21-INFRA21 [Related Opportunities]
Website: https://www.transportation.gov/buildamerica/financing/infra-grants/infrastructure-rebuilding-america

Brief Description: The Nationally Significant Freight and Highway Projects (NSFHP) program provides Federal financial assistance to highway and freight projects of national or regional significance. This discretionary grant program was established in the 2015 Fixing America's Surface Transportation (FAST) Act. This program, previously known as FASTLANE, was renamed the Infrastructure For Rebuilding America (INFRA) program in 2017.

Eligible projects for INFRA grants are: highway freight projects carried out on the National Highway Freight Network (23 U.S.C. 167); highway or bridge projects carried out on the National Highway System (NHS), including projects that add capacity on the Interstate System to improve mobility or projects in a national scenic area; railway-highway grade crossing or grade separation projects; or a freight project that is 1) an intermodal or rail project, or 2) within the boundaries of a public or private freight rail, water (including ports), or intermodal facility. A project within the boundaries of a freight rail, water (including ports), or intermodal facility must be a surface transportation infrastructure project necessary to facilitate direct intermodal interchange, transfer, or access into or out of the facility and must significantly improve freight movement on the National Highway Freight Network. Improving freight movement on the National Highway Freight Network may include shifting freight transportation to other modes, thereby reducing congestion and bottlenecks on the National Highway Freight Network. For a freight project within the boundaries of a freight rail, water (including ports), or intermodal facility, Federal funds can only support project elements that provide public benefits.

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: March 05, 2021

Contact Information: Paul Baumer Program Manager Phone 202-366-1092 Program Manager

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Department of Agriculture:

Grant Program: Equipment Grants Program
Agency: Department of Agriculture National Institute of Food and Agriculture USDA-NIFA-OP-008139
Website: https://nifa.usda.gov/funding-opportunity/equipment-grant-program-egp
Brief Description: The Equipment Grant Program (EGP) serves to increase access to shared-use special purpose equipment/instruments for fundamental and applied research for use in the food and agricultural sciences programs at institutions of higher education, including State Cooperative Extension Systems. The program seeks to strengthen the quality and expand the scope of fundamental and applied research at eligible institutions, by providing them with opportunities to acquire one major piece of equipment/instruments that support their research, training, and extension goals and may be too costly and/or not appropriate for support through other NIFA grant programs.

Awards: Grant from $25,000 to $500,000; Available funding: $4,800,000

Letter of Intent: Encouraged but not required

Proposal Deadline: March 16, 2021

Contact Information: Contact at: Carlos Ortiz, PhD

Grant Program: Biotechnology Risk Assessment Research Grants Program

Agency: Department of Agriculture National Institute of Food and Agriculture USDA-NIFA-BRAP-008032

Website: https://nifa.usda.gov/funding-opportunity/biotechnology-risk-assessment-research-grants-program-brag

Brief Description: The purpose of the BRAG program is to support the generation of new information that will assist Federal regulatory agencies in making science-based decisions about the effects of introducing into the environment genetically engineered organisms (GE), including plants, microorganisms — such as fungi, bacteria, and viruses — arthropods, fish, birds, mammals and other animals excluding humans. Investigations of effects on both managed and natural environments are relevant. The BRAG program accomplishes its purpose by providing federal regulatory agencies with scientific information relevant to regulatory issues. See the Request for Applications (RFA) for details. View the Centers of Excellence (COE) webpage to access a factsheet on the COE designation process, including COE criteria, and a list of programs offering COE opportunities.

Awards: Grant from $25,000 to $500,000; Available funding: $4,500,000

Letter of Intent: Encouraged but not required by January 21, 2021

Proposal Deadline: February 24, 2021

Contact Information: Contact at: Lakshmi Matukumalli

Grant Program: Scientific Cooperation Research Program (SCRP)

Agency: Department of Agriculture USDA-FAS-10961-0700-10-21-0001

Website: https://govtribe.com/opportunity/federal-grant-opportunity/scientific-cooperation-research-program-scrp-usdafas10961070010210001

Brief Description: The Scientific Cooperation Research Program (SCRP) supports FAS' Borlaug Fellowship Program and other strategic goals and utilizes the scientific communities' accumulated knowledge and technologies to help aid in developing practical solutions to address issues including agricultural trade and market access, animal and plant health, biotechnology, food safety and security, and sustainable natural resource management. All applications must include foreign collaborations, and projects should not exceed two years. Funding may be allocated to foreign collaborators through sub-awards.BackgroundThe Scientific Cooperation Research Program (SCRP) is a Foreign Agricultural Service Office, (FAS) administered program that has been in existence for several decades. Historically, SCRP has funded hundreds of collaborative research programs between U.S. and foreign scientists.

Awards: This program supports up to 10 collaborative research programs annually, up to $50,000.

Proposal Deadline: March 01, 2021

Contact Information: Isaac Ehlers-Weiss (202)690-5080   USDA email address

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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: Workforce Pathways for Youth Grant Program
Agency: Department of Labor FOA-ETA-21-01
Website: https://www.grants.gov/web/grants/view-opportunity.html?oppId=330348
Brief Description: This Announcement solicits applications for the Workforce Pathways for Youth grant program. The purpose of this program is to increase alignment between workforce and OST programs and expand job training and workforce pathways for youth and disconnected youth including soft skill development, career exploration, job readiness and certification, summer jobs, year-round job opportunities, and apprenticeships. The grant program, as outlined in the Department of Labor Appropriations Act, 2020 (Public Law 116-94) Statement of Managers, provides $10,000,000 to utilize the demonstration grant authority under the dislocated worker national reserve for grants to support national out-of-school time (OST) organizations that serve youth. These grants will place an emphasis on age-appropriate workforce readiness programming to expand job training and workforce pathways for youth, including soft skill development, career exploration, job readiness and certification, summer jobs, year-round job opportunities, and apprenticeships. Funding will also support partnerships between workforce boards and youth serving organizations.
Awards: Awards up to $5,000,000; Awards floor: $3,300,000. Anticipated available funding: $10,000,000.
Proposal Deadline: February 4, 2021
Contact Information: Denise Roach Grants Management Specialist Roach.Denise@dol.gov

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Department of Commerce/EDA

Grant Program: Graduate Student Measurement Science and Engineering (GMSE) Fellowship Program
Agency: U.S. Department of Commerce NIST 021-NIST-GMSE-01
Website: https://www.grants.gov/web/grants/view-opportunity.html?oppId=331314
Brief Description: The NIST's Graduate Student Measurement Science and Engineering (GMSE) Fellowship Program is seeking applications from eligible applicants for activities to provide master's and doctoral-level graduate students with opportunities and financial assistance to obtain laboratory experiences within the NIST laboratories in the science, technology, engineering and mathematics (STEM) disciplines. The recipient will work with NIST to foster collaborative STEM research relationships among NIST, master's and doctoral level graduate students, and the students' academic institutions.
Awards: NIST may fund up to approximately $3,250,000 for the GMSE Fellowship Program over five (5) years.

Letter of Intent: Contact the program director.

Proposal Deadline: Full Applications must be received at Grants.gov no later than 11:59 p.m. Eastern Time, Tuesday, March 23, 2021.

Contact Information: Christopher Hunton Management and Program Analyst Phone 301-975-5718

Agency Contact

Grant Program: Measurement Science and Engineering (MSE) Research Grant Programs

Agency: U.S. Department of Commerce NIST 2021-NIST-MSE-01

Website: https://www.grants.gov/web/grants/view-opportunity.html?oppId=331121

Brief Description: NIST is soliciting applications for financial assistance for Fiscal Year 2021 (FY21) within the following NIST grant programs:

(1) the Associate Director for Innovation and Industry Services (ADIIS);

(2) the Associate Director for Laboratory Programs (ADLP);

(3) the Communications Technology Laboratory (CTL);

(4) the Engineering Laboratory (EL);

(5) Fire Research (FR);

(6) the Information Technology Laboratory (ITL);

(7) the International and Academic Affairs Office (IAAO);

(8) the Material Measurement Laboratory (MML);

(9) the NIST Center for Neutron Research (NCNR);

(10) the Physical Measurement Laboratory (PML);

(11) the Special Programs Office (SPO); and

(12) the Standards Coordination Office (SCO).

Awards: Various; Grants or cooperative agreements

Letter of Intent: Contact the program director.

Proposal Deadline: Applications will be accepted and considered on a rolling basis as they are received. See Section IV.4. in the Full Announcement Text of this NOFO.

Contact Information: Misty L Roosa Management Analyst Phone 301-975-3007

Agency Contact

Grant Program: FY 2021 NIST Small Business Innovation Research Program (SBIR) Phase I

Agency: U.S. Department of Commerce NIST 2021-NIST-SBIR-01

Website: https://www.grants.gov/web/grants/view-opportunity.html?oppId=331104

Brief Description: The National Institute of Standards and Technology (NIST) invites small businesses to submit Phase I research applications under this Notice of Funding Opportunity (NOFO). Science and technology-based firms with strong research capabilities in any of the areas listed in Section 9.0 of this NOFO are encouraged to participate. Applications must sufficiently identify and clearly address a specific NIST technical program area that falls within one of the research areas described in Section 9.0 (see Section 3.02.02(1)) or a NIST- patented technology available for licensing.

The statutory purpose of the SBIR Program is to strengthen the role of innovative small business concerns (SBCs) in Federally-funded research or research and development (R/R&D). Specific program goals are to: (1) stimulate technological innovation; (2) use small business to meet Federal R/R&D needs; (3) foster and encourage participation by socially and economically disadvantaged small businesses and by women-owned small businesses in technological innovation; and (4) increase private sector commercialization of innovations derived from Federal R/R&D, thereby increasing competition, productivity, and economic growth.

The NIST FY 2021 SBIR program identifies and solicits applications in topics that fall within NIST's mission and allow collaboration between NIST scientists and the SBIR awardees whenever possible.

Awards: Each Phase I award is for up to $100,000 and up to a six (6) month period of performance. Up to an additional $6,500 may be requested for Technical and Business Assistance (TABA)

Letter of Intent: Contact the program director.

Proposal Deadline: April 14, 2021

Contact Information: Christopher Hunton Management and Program Analyst Phone 301-975-5718

Agency Contact

Grant Program: FY2021 to FY2023 NOAA Broad Agency Announcement (BAA)
Agency: U.S. Department of Commerce NOAA-NFA-NFAPO-2021-2006626
Website: https://www.grants.gov/web/grants/view-opportunity.html?oppId=329261

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

Awards: Contingent to the availability of funds.

Letter of Intent: Contact the program director.

Proposal Deadline: Applications can be submitted on a rolling basis starting from the publication date of this Broad Agency Announcement up to 11:59:59 p.m., Eastern Daylight Time on September 30, 2023.

Contact Information: Mr. Lamar Dwayne Revis, 301-628-1308, lamar.revis@noaa.gov

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EPA

Grant Program: FY 2021 National Environmental Information Exchange Network Grant Program
Agency: Environmental Protection Agency EPA-OMS-21-01
Website: https://www.grants.gov/web/grants/view-opportunity.html?oppId=331293

Brief Description: The EPA Exchange Network Grant Program is soliciting project applications using the Environmental Information Exchange Network (EN) to:
- Facilitate sharing of environmental data, especially through shared and reusable services.
- Reduce burden and avoid costs for co-regulators and the regulated community.
- Streamline data collection and exchanges to improve its timeliness for decision making.
- Increase the quality and access to environmental data through discovery, publishing, outbound and analytical services so it is more useful to environmental managers.
- Increase data and IT management capabilities needed to fully participate in the EN.

Award: In FY21, EPA expects to award about $8,000,000 in 20-30 assistance agreements of up to $400,000 each.

Submission Deadline: March 31, 2021; 11:59 PM Eastern.

Contact: Erika Beasley Office of Information Management Information Exchange Partnership Branch Phone: (202) 566-2530 Fax: (202) 566-1684 beasley.erika@epa.gov

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Department of Energy

Grant Program: X-Strack: Programming Environments for Scientific Computing

Agency: Department of Energy DE-FOA-0002460

Website: https://www.grants.gov/web/grants/view-opportunity.html?oppId=331171

Brief Description: The DOE SC program in Advanced Scientific Computing Research (ASCR) hereby announces its interest in basic research in computer science exploring innovative approaches to creating, verifying, validating, optimizing, maintaining, and executing scientific software targeting distributed, heterogeneous, high-performance computing platforms.

Each pre-application and application must address at least one of two research areas: 1. Automated test synthesis: Innovative methods for automatically generating tests for scientific applications to ensure that, within scientifically-relevant regimes, their behavior meets user-defined requirements and they function with the required level of equivalence across different distributed, heterogeneous, HPC platforms. All aspects of program behavior can be considered, including performance. Additional considerations may include, but are not limited to, the following objectives and the tradeoffs between them: ● How to best interact with human programmers to obtain otherwise-unavailable information and/or present results. ● How to minimize the number, size, and/or complexity of the generated tests. ● How to minimize the execution time and/or usage of expensive/large-scale resources for testing. ● How to maximize the likelihood of discovering defects and/or the determinism of the testing process. ● How to provide information helpful to isolating the causes of failures. 2. Parallel-programming-model translation: Innovative methods enabling the transformation of scientific applications that make use of one parallel-programming model into applications that target heterogeneous systems using a different parallel programming model. Additional considerations may include, but are not limited to, the following objectives and the tradeoffs between them: ● How, and to what extent, can behavioral equivalence be preserved by the translation process. ● How to minimize the size and/or complexity of the generated code. ● How to maximize the performance, readability, and/or naturalness (e.g., similarity to idiomatic usage of language constructs) of the generated code. ● How to enable the continued maintenance of the transformed application.

Awards: ● DOE National Laboratories: $900,000 per year ● All other applicants: $300,000 per year For collaborative applications, this ceiling applies per collaborating site. The total budget of the collaboration may not exceed $1,200,000 per year.

Letter of Intent: Please see below.

Submission Deadline: Submission Deadline for Pre-Applications: March 1, 2021 at 11:59 PM Eastern Time. A Pre-Application is required Pre-Application Response Date: March 15, 2021 Submission Deadline for Applications: April 12, 2021 at 11:59 PM Eastern Time

Contact: Hal Finkel Program Manager Phone 302-912-7428

Program Manager email

Grant Program: Fossil Energy Based Prodcution, Storage, Transport and Utilization of Hydrogen Approaching Net-Zero or Net-Negative Carbon Emissions
Agency: Department of Energy DE-FOA-0002400
Website: https://www.grants.gov/web/grants/view-opportunity.html?oppId=330950
Brief Description: This FOA will develop technologies to reinvigorate the use of the United States' vast fossil-fuel resources and power infrastructure for net-zero carbon energy and commodity production through the production, transport, storage, and utilization of fossil-based hydrogen with zero or negative carbon emissions.To achieve these goals, significant advances in technology, economics, and infrastructure must be made in areas of interest under the following program areas:Net Zero-or Negative-Carbon Hydrogen Production from Modular Gasification and Co-Gasification of Mixed Wastes, Biomass, and Traditional Feedstocks; Solid Oxide Electrolysis Cell Technology Development; Carbon Capture; Advanced Turbines; Natural Gas-Based Hydrogen Production; Hydrogen Pipeline Infrastructure; Subsurface Hydrogen Storage.
Awards: Anticipated available funding: $160,000,000
Letter of Intent: Please contact the program director
Submission Deadline: March 01, 2021
Contact: Raelynn Honkus 412-386-4992 Raelynn.Honkus@netl.doe.gov

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Grant Program: Materials and Chemical Sciences Research for Quantum Information Science
Agency: Department of Energy Office of Science DE-FOA-0002449
Website: https://science.osti.gov/bes/Funding-Opportunities
Brief Description: The DOE SC program in Basic Energy Sciences (BES) announces its interest in receiving applications from single investigators and from teams for support of experimental and theoretical efforts to advance understanding of quantum phenomena in systems that could be used for quantum information science (QIS) and the use of quantum computing in chemical and materials sciences research. New and renewal applications are invited in two topical areas: 1) Quantum Computing; and 2) Next-Generation Quantum Systems.

The BES mission is to support fundamental research to understand, predict, and ultimately control matter and energy at the electronic, atomic, and molecular levels to provide the foundations for new energy technologies and to support DOE missions in energy, environment, and national security. BES also supports world-class, open-access scientific user facilities consisting of a complementary set of intense x-ray sources, neutron sources, and research centers for nanoscale science. Further information about BES research programs can be found at: • Chemical Sciences, Geosciences, and Biosciences: https://science.osti.gov/bes/csgb • Materials Sciences and Engineering: https://science.osti.gov/bes/mse • Quantum Information Science: https://science.osti.gov/bes/Research/qis
Awards: DOE anticipates that, subject to the availability of future year appropriations, a total of up to $75 million in current and future fiscal year funds will be used to support awards under this FOA.
Letter of Intent: Please see below.
Submission Deadline: Submission Deadline for Pre-Applications: January, 27, 2021 at 5:00 PM Eastern A Pre-Application is required Pre-Application Response Date: March 1, 2021 Submission Deadline for Applications: April 14, 2021 at 11:59 PM Eastern
Contact: Dr. James Horwitz, Basic Energy Sciences, Materials Sciences and Engineering Division James.Horwitz@science.doe.gov

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Grant Program: EARLY CAREER FACULTY (ECF)
Agency: NASA 80HQTR21NOA01-21ECF-B1
Website: https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BA51AB850-92C5-A9EC-DBAB-2B92A3777CB4%7D&path=&method=init
Brief Description: The National Aeronautics and Space Administration (NASA) Headquarters has released a solicitation, titled Early Career Faculty (ECF), as an appendix to the Space Technology Mission Directorate (STMD) umbrella NASA Research Announcement (NRA) titled "Space Technology Research, Development, Demonstration, and Infusion 2021 (SpaceTech-REDDI-2021), on February 4, 2021. The solicitation is available by opening the NSPIRES homepage at http://nspires.nasaprs.com/ , selecting "Solicitations," then selecting "Open Solicitations," and, finally, selecting "Early Career Faculty (ECF)."
The Space Technology Research Grants (STRG) Program within STMD seeks proposals from accredited U.S. universities on behalf of their outstanding new faculty members who intend to develop academic careers related to space technology. NASA is seeking proposals that plan to pursue innovative, early-stage space technology research in the topic areas specifically enumerated in the solicitation.
Our Nation's universities couple fundamental research with education, encouraging a culture of innovation based on the discovery of knowledge. Universities are, therefore, ideally positioned to both conduct fundamental space technology research and diffuse newly-found knowledge into society at large through graduate students and industrial, government, and other partnerships. STMD investments in space technology research at U.S. universities promote the continued leadership of our universities as an international symbol of the country's scientific innovation, engineering creativity, and technological skill. These investments also create, fortify, and nurture the talent base of highly skilled engineers, scientists, and technologists to improve America's technological and economic competitiveness.
The following topics are anticipated for the final appendix:
Topic 1 – Advanced Computational Techniques for the Development of Cryogenic Refrigeration Systems
Topic 2 – High-Fidelity Emulation of Full-Physics Models in Earth Science
Topic 3 – Joining Processes for Shape Memory Alloys to Enable Advanced Structural Applications
Awards: Award Ceiling: $600,000
Notice of Intent: ECF_NOI NOIs Due   Feb 24, 2021 11:59:59 PM Eastern Standard Time
Proposal Deadline: March 24, 2021
Contact: STRG Program Executive STRG Program Exec

Grant Program: ROSES 2020: Heliophysics Flight Opportunities in Research and Technology
Agency: NASA NNH20ZDA001N-HFORT
Website: https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BDBCE844C-1D0B-D36A-12A6-86FC953F1B6C%7D&path=&method=init
Brief Description: The Heliophysics Flight Opportunities in Research and Technology (H-FORT) program seeks to fund space and sub-orbital science and science-enabling investigations that use platforms that include SmallSats (including CubeSats), Balloon Missions, and Hosted Rideshare Payloads, such as International Space Station (ISS)-attached payloads. The program encourages the development of technologies that will enable investigation of heliophysics science questions. All proposed investigations must be responsive to NASA Heliophysics Science Goals. H-FORT is a component of the Heliophysics Research Program and proposers interested in this program element are encouraged to see B.1 The Heliophysics Research Program Overview for Heliophysics-specific

requirements and Science Goals and objectives. Common requirements for all ROSES elements are found in the ROSES Summary of Solicitation and the 2020 Proposer's Guidebook (https://prod.nais.nasa.gov/pub/pub_library/srba/propsers_guidebooks.html). The order of precedence is the following: B.11 (this document) followed by B.1, followed by the ROSES Summary of Solicitation, and the Proposer's Guidebook. Proposers should be familiar with all of these resources.
Awards: Available funding: $3,000,000
Notice of Intent: Not required.
Proposal Deadline: March 26, 2021
Contact: Dan Moses, Telephone: (202) 358-0558 Email: dan.moses@nasa.gov
Amy Winebarger, Telephone: (256) 961-7509 Email: amy.r.winebarger@nasa.gov

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National Endowment of Humanities

Grant Program: Research and Development
Agency: National Endowment for the Humanities 20210518-PR
Website: https://www.neh.gov/grants/preservation/research-and-development
Brief Description: The Research and Development program supports projects that address major challenges in preserving or providing access to humanities collections and resources. These challenges include the need to find better ways to preserve materials of critical importance to the nation's cultural heritage—from fragile artifacts and manuscripts to analog recordings and digital assets subject to technological obsolescence—and to develop advanced modes of organizing, searching, discovering, and using such materials.

This program supports projects at all stages of development, from early planning and stand-alone studies, to advanced implementation. Research and Development projects contribute to the evolving and expanding body of knowledge for heritage practitioners, and for that reason, outcomes may take many forms. Projects may produce any combination of laboratory datasets, guidelines for standards, open access software tools, workflow and equipment specifications, widely used metadata schema, or other products.

Research and Development supports work on the entire range of humanities collection types including, but not limited to, moving image and sound recordings, archaeological artifacts, born digital and time-based media, rare books and manuscripts, archival records, material culture, and art. Applicants must demonstrate how advances in preservation and access through a Research and Development project would benefit the cultural heritage community by supporting humanities research, teaching, or public programming.

Research and Development projects are encouraged to address one or more of the following areas of special interest:
- **Preserving our audiovisual and digital heritage**
- **Conserving our material past**
- **Protecting our cultural heritage**
- **Serving under-represented communities**

For more information about the program, you may refer to the pre-recorded webinar. Please note, the webinar was recorded in 2020 and therefore deadlines are outdated. An updated pre-recorded webinar for 2021 will be posted by March 4, 2021.
Award: Maximum award amount Tier I provides awards up to $75,000; Tier II provides awards up to $350,000

Proposal Deadline: Application due May 18, 2021
Contact: Division of Preservation and Access Team 202-606-8570; preservation@neh.gov

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Grant Program: Awards for Faculty
Agency: National Endowment for the Humanities 20210414-HB
Website: https://www.neh.gov/divisions/research
Brief Description: The Division of Research supports scholarly research that advances knowledge and understanding of the humanities. Through twelve annual funding opportunities, awards are made to scholars—individuals, collaborative teams, or institutions—working on research projects of significance to specific humanities fields and to the humanities as a whole. The projects that the division supports are as diverse as America itself: editions of the Dead Sea Scrolls, the history of "The Star Spangled Banner," and the autobiography of Mark Twain.
While Research Programs is the only NEH division to make awards to individuals, institutional grants are also available. **Collaborative Research** supports projects by teams of scholars. **Scholarly Editions and Scholarly Translations** provides funding for time-intensive editing projects such as the Papers of George Washington, and **Fellowship Programs at Independent Research Institutions** provides American scholars access to unique collections at American centers for humanities research around the world.
Award: Various
Proposal Deadline: Application due April 18, 2021
Contact: Division of Research Programs: (202) 606-8200 research@neh.gov

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Private Foundations

New Jersey Commission on Spinal Cord Research

Grant Program: NJCBR Research Program
Agency: New Jersey Commission on Spinal Cord Research (NJCSR)
Website: https://nj.gov/health/spinalcord/
https://nj.gov/health/spinalcord/documents/researchpgr.pdf
Brief Description: NJCSCR awards are intended to promote innovative, groundbreaking research, not to provide long-term support. Grantees are eligible to apply for funding for additional research projects, but all applications will be reviewed competitively
The NJCSCR is committed to accelerating research to develop effective interventions and cures for paralysis and other consequences of spinal cord injury and disease. Its primary objectives are:
• To advance the field of spinal cord repair and regeneration and the New Jersey research community by encouraging established scientists to apply their expertise to the spinal cord.
• To facilitate the application of innovative ideas from other areas of science to the challenges of spinal cord injury repair.
• To foster collaborative, interdisciplinary approaches to spinal cord research.
• To nurture the next generation of spinal cord researchers through support of young scientists and postdoctoral fellows.
• To prevent or treat secondary biological conditions resulting from spinal cord injury.
• To promote dissemination of the research findings generated by those scientists supported by the NJCSCR.

Awards: The NJCSCR will offer two types of grant awards: Exploratory Research Grants and Postdoctoral and Graduate Fellowship Grants. All qualifying institutions in the State of New Jersey may apply.

Exploratory Research Grant Awards: The purpose of the Exploratory Research Grant award is to enable independent investigators to apply their specific expertise to spinal cord research. The award is designed to provide the resources necessary to acquire preliminary data that will allow the successful applicant to obtain continued support from the NJCSCR, NIH, and/or other funding agencies. It is specifically intended to facilitate the application of innovative ideas from other areas of science to the challenges of spinal cord injury and repair. Two-year non-renewable awards are offered to applicants at a maximum funding level of up to $100,000 per year including direct and indirect costs, (10% maximum for the latter). All awards are made through one-year contracts.

Postdoctoral and Graduate Student Fellowship Grants Awards: Postdoctoral Fellowships are three-year awards of $50,000 per annum. They provide an annual stipend of $36,000, a research allowance of $13,000, and a travel budget of $1,000. No part of the award may be used for institutional overhead or indirect costs. Institutions may supplement stipends, but not with other full-time fellowship awards, or other NJCSCR monies.

Letter of Intent: Not required

Proposal Deadline: For all grant categories, applicants must complete an online application. Online applications must be submitted via the SAGE system no later than 3:00PM, MAY 3, 2021.

Contact: Contact NJCBR at Phone: (609) 913-5005; NJCSCR@doh.nj.gov

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Johnson & Johnson Innovation

Grant Program: Digital Technologies of Tomorrow QuickFire Challenge
Agency: Johnson & Johnson Innovation
Website: https://jlabs.jnjinnovation.com/quickfire-challenges/digital-technologies-tomorrow-quickfire-challenge

Brief Description: We encourage applications from entrepreneurs & innovators working with the aim to harness medical device technologies such as Artificial Intelligence (AI), 3D-printing, IoT, 5G, and beyond in diagnostics, perioperative treatment solutions, and emerging and transformative technologies, related specifically to:

- *AFIB*: How can we leverage digital technologies with the aim to identify patients and refer them to the appropriate physicians? How can we trace patients for remission after treatment?
- *Neurovascular Treatments*: How can we detect signs/ risks of stroke for early treatment?
- ***General and orthopedic surgery,*** *including distant operating stage support and AI-enabled procedure planning*: How can we drive more effective potential perioperative solutions (including pre-, intra- and post-surgery) with emerging technologies? How can we apply innovative, untraditional material to orthopedics surgery?

Awards: Grant Funding from a total of up to $100,000
Letter of Intent: Not required
Proposal Deadline: March 19, 2021.
Contact: *Please contact jlabsapplication@its.jnj.com with any questions.*

NIH-POCTRN Centers

Grant Program: Point-Of-Care Technology Research Program

Agency: NIH POCTRN Centers
Website: J https://www.poctrn.org/funding
Brief Description: Current Funding Opportunities
POCTRN 2021 Call for Proposals
- Microfluidics/Lab-on-a-Chip Point-of-Care Technologies
  Atlanta Center for Microsystems Engineered Point-of-Care Technologies
- Development of Point-Of-Care Testing for HIV and Co-Morbidities for Use in Low and Middle Income Countries
  The Center for Innovation in Point of Care Technologies for HIV/AIDS at Northwestern
- Center for Advancing Point of Care Technologies in Heart, Lung, Blood and Sleep Disorders: Funding Opportunity
  Center for Advancing Point of Care Technologies in Heart, Lung, Blood, and Sleep Disorders

Awards: Various
Letter of Intent: Not required
Proposal Deadline: Apply Now
Contact: Please contact POCTRN initiative: cimitcommunications@partners.org

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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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