

# NJIT Research Newsletter

Issue: ORN-2020-41

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

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## Special Announcements

### **2020 NJIT Panel Discussion on NSF CAREER Grant**

November 2, 2020; 2.00 PM - 3.30 PM

WebEx Meeting

Information about NSF CAREER Grant Proposal Preparation

All faculty interested in NSF CAREER award submission are invited to 2020 NJIT Panel Discussion on NSF CAREER Grant event to be held on November 2, 2020 via WebEx from 2.00 PM – 3.30 PM. The event will highlight the requirements for NSF CAREER award and discuss the best practices on proposal preparation with NJIT faculty members who have recently received the prestigious NSF CAREER award.

Faculty panelists will include:

- Hieu Nguyen, Electrical and Computer Engineering; Area: Nanostructures and Optoelectronics; <https://people.njit.edu/faculty/hpnguyen>
- Cong Wang, Electrical and Computer Engineering; Area: Robotics, <https://people.njit.edu/faculty/wangcong>
- Gennady Gor, Chemical and Material Engineering; Area: Porous Materials and Membranes; <https://people.njit.edu/faculty/gor>
- Senjuti Basu Roy, Computer Science; Area: Big Data Analytics and Machine Intelligence; <https://people.njit.edu/faculty/senjutipb>

The agenda for the panel discussion session is as follows:

NJIT Panel Discussion on NSF CAREER Grant Event

November 2, 2020

Agenda:

2.00 PM - 2.10 PM: Introductions of Panelists: Atam Dhawan

2.10 PM - 2.15 PM; Overview of the NSF CAREER program: Atam Dhawan

2.15 PM - 3.00 PM: Panel Discussion on Proposal Preparation: Hieu Nguyen, Cong Wang, Gennady Gor and Senjuti Basu Roy  
(Sharing experiences followed by questions on Best practices and suggestions on critical parts of the proposal including the broader impact section)

3.00 PM- 3.30 PM: Q&A from Audience and Discussion

### Panelist Bio-sketches:

**Dr. Hieu Nguyen** joined NJIT from McGill University, Montreal where he was a postdoctoral research fellow in the Department of Electrical and Computer Engineering after completing his Ph.D. training from the same University. His current research interests focus on development of nanowire heterostructures for high performance nano-optoelectronic devices including light-emitting diodes (LEDs), lasers, photodetectors, and solar cells. He has successfully developed molecular beam epitaxial growth, fabrication, and characterization for the full-color III-nitride nanowire LEDs without using foreign metal catalyst and phosphor conversion. This work enables new applications for high-brightness emissive displays with long life, full color capability, and low power consumption where the quantum dot-in-nanowire structure permits easy tuning of the color emission compared to current liquid-crystal and organic LED displays. He has recently developed ultraviolet LEDs using AlInN nanostructures which is a new form of UV light-emitters that have potential to enable new practical applications in solid-state lighting, data storage, sterilization/water purification, and air/surface disinfection. He is the author/coauthor of more than 70 journal articles and 90 conference presentations including several plenary and invited talks.

**Dr. Cong Wang** joined NJIT from the University of California, Berkeley, where he has been a postdoctoral researcher and lecturer in the Department of Mechanical Engineering after earning his Ph.D. from Berkeley in 2014. Dr. Wang's research focuses on robotics and control systems with an emphasis on advanced control theories, robotic manufacturing and semiconductor fabrication. He developed a series of data-driven algorithms designed to improve the performance of industrial robots used in manufacturing. His work in applying machine learning and robust optimization in the semiconductor industry, for

example, focuses on boosting the capabilities of “frog-leg” robots, allowing the ubiquitous wafer-handling machines to produce more silicon chips at a lower cost. He is currently researching hypermaneuverability robotic manipulation to automate delicate manufacturing processes in sectors such as consumer electronics, work that can now be performed only by skilled workers. Dr. Wang has been working closely with industry partners such as the Silicon Valley-based Applied Materials and FANUC, the world’s largest industrial robot supplier.

**Dr. Gennady Gor** received Ph.D. in theoretical physics from St. Petersburg State University, Russia in 2009. He continued his postdoctoral research in the United States, at Rutgers University, Princeton University and Naval Research Laboratory. In 2016 he joined the Chemical and Materials Engineering department at NJIT as an assistant professor. He authored more than 50 peer-reviewed publications and is the recipient of the National Research Council Associateship (2014) and the NSF CAREER Award (2020). Dr. Gor’s Computational Laboratory for Porous Materials employs a set of modeling techniques, such as Monte Carlo and molecular dynamics simulations, density functional theory and finite element methods, to study materials ranging from nanoporous adsorbents to macroporous polymers and geological porous media.

**Dr. Senjuti Basu Roy** joined NJIT from the University of Washington (UW), Tacoma, where she was an assistant professor at the Institute of Technology. Her recent broader research interests lie in the area of large scale data management with the focus on designing principled algorithms for "human-in-the-loop" systems. Prior to joining UW, she was a postdoctoral fellow at the Center for Discrete Mathematics and Theoretical Computer Science at Rutgers University, where she worked on big-graph mining and exploration. She has served as the Mentorship co-chair of SIGMOD 2018, PhD workshop co-chair of VLDB 2018, and serves as the co-chair of the IEEE international workshop on Human-in-the-loop Methods and Human Machine Collaboration in Big Data (HMDData 2017-2020). She has co-authored more than 50 research papers in peer-reviewed premier data management and data mining conferences and journals. Her research is funded by NSF, ONR, NIH, and Microsoft Research.

### **Information to Connect to WebEx Meeting:**

#### **CONNECT with COMPUTER:**

1. Click this link:

<https://njit.webex.com/njit/onstage/g.php?MTID=e7f34891eba1af3896d703077a4ee698d>

OR (alternatively)

Go to: <https://njit.webex.com/>

Enter meeting number: 120 296 6203 Hit Enter.

2. Enter your name, email, and Event password

Meeting password: NJIT

Click "Join Now"

3. Join the session and connect your audio:

Before the session opens, an “Audio Connection” preview screen will pop-up. Select an audio connection method. To change a sound device, click the cog-wheel icon in the bottom right corner of the preview window. Then join the session.

CONNECT with TELEPHONE:

Call: 1-650-479-3207

Enter meeting number: 120 296 6203 followed by #

Then, for Attendee ID number, hit #

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**NSF Faculty Early Career Development Program (CAREER): NSF-20-525**

**Proposal Submission Deadline: July 26, 2021 (Fourth Monday of July)**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=503214](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503214)

**CAREER:** The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. Activities pursued by early-career faculty should build a firm foundation for a lifetime of leadership in integrating education and research. NSF encourages submission of CAREER proposals from early-career faculty at all CAREER-eligible organizations and especially encourages women, members of underrepresented minority groups, and persons with disabilities to apply.

**PECASE:** Each year NSF selects nominees for the Presidential Early Career Awards for Scientists and Engineers (PECASE) from among the most meritorious recent CAREER awardees. Selection for this award is based on two important criteria: 1) innovative research at the frontiers of science and technology that is relevant to the mission of NSF, and 2) community service demonstrated through scientific leadership, education, or community outreach. These awards foster innovative developments in science and technology, increase awareness of careers in science and engineering, give recognition to the scientific missions of the participating agencies, enhance connections between fundamental research and national goals, and highlight the importance of science and technology for the Nation’s future. Individuals cannot apply for PECASE. These awards are initiated by the participating federal agencies. At NSF, up to twenty nominees for this award are selected each year from among the PECASE-eligible CAREER awardees most likely to become the leaders of academic research and education in the twenty-first century. The White House Office of Science and Technology Policy makes the final selection and announcement of the awardees.

## Fall 2020 NSF Virtual Grants Conference National Science Foundation

Save the Date! Join the National Science Foundation (NSF) for the very first NSF Virtual Grants Conference, to be held during the weeks of **November 16** and **November 30, 2020**. This event is designed to give new faculty, researchers and administrators key insights into a wide range of current issues at NSF. NSF staff will be providing up-to-date information about the proposal and award process, specific funding opportunities and answering attendee questions.

Registration will be free of charge and opens on **Thursday, October 29 at 12 p.m. EST**. Each conference session will have its own Zoom registration page. Please sign up only for sessions that you are able to attend. For those who cannot attend the live conference, **all recorded conference sessions will be available on-demand** shortly after the event. We anticipate the sessions will reach capacity very quickly, so we encourage you to register as soon as possible. We will send an email reminder to our listserv on **Wednesday, October 28**. In the meantime, please feel free to check [nsfpolicyoutreach.com/](https://nsfpolicyoutreach.com/) for the most up-to-date information, and view [recordings](#) of sessions from last year's event. You may also contact us via email at [grants\\_conference@nsf.gov](mailto:grants_conference@nsf.gov).

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### 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: Principles and Practice of Scalable Systems (PPoS); Research on Integrated Photonics Utilizing AIM Photonics Capabilities; Cybersecurity Innovation for Cyberinfrastructure (CICI); Accelerating Research through International Network-to-Network Collaborations (AccelNet); Partnerships for Research and Education in Materials (PREM); Division of Molecular and Cellular**

Biosciences: Investigator-initiated research projects (MCB); Transitions to Excellence in Molecular and Cellular Biosciences Research (Transitions); Plant Genome Research Program (PGRP); Division of Integrative Organismal Systems Core Programs; Mid-scale Research Infrastructure-1 (Mid-scale RI-1); Division of Environmental Biology (core programs) (DEB)); Sustaining Infrastructure for Biological Research (Sustaining); Infrastructure Innovation for Biological Research (Innovation); Infrastructure Capacity for Biological Research (Capacity)

**NIH: Discovery of in vivo Chemical Probes for the Nervous System (R01)**; BRAIN Initiative Fellows (F32); BRAIN Initiative: Pilot resources for brain cell type-specific access and manipulation across vertebrate species (U01); Genomic Data Analysis Network: Genomic Data Center (U24)

**Department of Defense/US Army/DARPA/ONR: Energetics Basic Research Center Fiscal Year 2022**; Young Faculty Award (YFA); Defense Sciences Office Office-wide; C4ISR, Information Operations, Cyberspace Operations and Information Technology System Research

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

**Department of Agriculture: Community Connect Grant Program**; Agriculture and Food Research Initiative - Foundational and Applied Science

**Department of Labor**: Supply Chains Tracing Project

**Department of Commerce/EDA**: FY2021 to FY2023 NOAA Broad Agency Announcement (BAA); FY2021 Marine Debris Research

**EPA: Center for Early Lifestage Vulnerabilities to Environmental Stressors**

**Department of Energy: Connected Communities**; Buildings Energy Efficiency Frontiers & Innovation Technologies (BENEFIT)

**NASA: University Student Research Challenge**; Heliophysics Science Center (HSC); ROSES 2020: Science Team for the OCO Missions

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

**Private Foundations: New Jersey Health Foundation: Innovation Grants Program; Bill and Malina Gates Foundation: Grand Challenge: Balance the Equation - A Grand Challenge for Algebra 1**

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

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

**PI:** Treena Arinzeh (PI)

**Department:** Biomedical Engineering

**Grant/Contract Project Title:** Science and Technology Center for Mechano-Biology

**Funding Agency:** NSF

**Duration:** 02/01/17-09/30/21

**PI:** Colette Santasieri (PI)

**Department:** Center for Community Systems, HCoAD

**Grant/Contract Project Title:** Newark Airport City Conference Grant

**Funding Agency:** Prudential (Prudential Foundation Grants)

**Duration:** 09/01/20-09/01/21

**PI:** Xiaoyang Xu (PI)

**Department:** Chemical and Material Engineering

**Grant/Contract Project Title:** Nanolipidoids-Conjugated MicroRNA Enhance Oral and Cranial Bone Regeneration

**Funding Agency:** NIH

**Duration:** 09/01/20-08/31/21

**PI:** Jacob Chakareski (PI)

**Department:** Center for Community Systems, HCoAD

**Grant/Contract Project Title:** CIF: Mobile Immersive Communication: View Sampling and Rate-Distortion Limits

**Funding Agency:** informatics

**Duration:** 09/01/20-12/31/20

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

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

**NSF Program on Principles and Practice of Scalable Systems (PPoSS):** A key focus of the design of modern computing systems is performance and scalability, particularly in light of the limits of Moore's Law and Dennard scaling. To this end, systems are increasingly being implemented by composing heterogeneous computing components and continually changing memory systems as novel, performant hardware surfaces. Applications fueled by rapid strides in machine learning, data analysis, and extreme-scale simulation are becoming more domain-specific and highly distributed. In this scenario, traditional boundaries between hardware-oriented and software-oriented disciplines increasingly are blurred. The aim of the Principles and Practice of Scalable Systems (PPoSS) program is to support a community of researchers who will work symbiotically across the multiple disciplines above to perform basic research on scalability of modern applications, systems, and toolchains. The intent is that these efforts will foster the development of principles that lead to rigorous and reproducible artifacts for the design and implementation of large-scale systems and applications across the full hardware/software stack. These principles and methodologies should simultaneously provide guarantees on correctness and accuracy, robustness, and security and privacy of systems, applications, and toolchains. Importantly, as described below, **PPoSS specifically seeks to fund projects that span the entire hardware/software stack** and will lay the groundwork for sustainable approaches for engineering highly performant, scalable, and robust computing applications. A brief about the NSF RFP [21-513](#) is included in the NSF Funding Opportunities section below.

**The US Military to Launch Largest 5G Experiments:** After months of expectation, planning, and consulting with the services and with industry, the Pentagon is finally ready to start testing new concepts for 5G communications at five bases across the country. The contracts to the various companies taking part in the tests, which defense officials announced on Thursday, are worth a total of \$600 million. By Pentagon standards, that sum isn't enormous. But the experiments offer companies a chance to refine 5G offerings that will be key to their businesses in the future, and will reveal how industry and the military



will manage and share spectrum. That has huge implications for the future of the telecommunications industry and the way consumers use the Internet.

“These are really at-scale experiments. They aren’t just little demonstrations in a small area, like a science experiment,” Joseph Evans, the director for 5G in the Office of the Director of Research and Engineering, told reporters on Thursday. “These are at-scale deployments of 5G technology and an evaluation of DOD and industry dual-use” applications.

The test sites include:

- Joint Base Lewis-McChord in Washington, focusing on augmented and virtual reality training.
- Naval Base San Diego in California, focusing on smart warehousing.
- Marine Corps Logistics Base in Albany, Georgia, focusing 5G smart warehousing but for vehicles.
- Nellis Air Force Base in Nevada, focusing on distributed command and control.
- Hill Air Force Base in Utah, focusing on dynamic spectrum sharing.

More information is available on the website <https://www.govexec.com/technology/2020/10/us-military-about-launch-its-largest-5g-experiments-yet/169150/>

### **Lawmakers Introduce Bipartisan Resolution Recognizing the 50th Anniversary Of The National**

**Oceanic And Atmospheric Administration**: House Science, Space, and Technology Committee Chairwoman Eddie Bernice Johnson (D-TX) and Ranking Member Frank Lucas (R-OK) along with House Natural Resources Committee Chairman Raúl Grijalva (D-AZ) introduced a [bipartisan resolution](#) to recognize the National Oceanic and Atmospheric Administration’s (NOAA) 50<sup>th</sup> anniversary which falls on October 3. NOAA’s history of environmental stewardship dates back to the 19<sup>th</sup> century, with the creation of the Survey of the Coast in 1807 by President Thomas Jefferson, followed by the Weather Bureau and the Commission on Fish and Fisheries, all of which came together under one roof when NOAA was established in 1970. “I am delighted to be introducing this bipartisan resolution with my colleagues to recognize NOAA for the integral role they have played to protect the health and safety of the American people over the last 50 years,” said Chairwoman Johnson. “There has never been a more important time for Congress to strengthen and support NOAA as we combat climate change, work to protect our most precious natural areas, and continue to uphold scientific integrity in our federal agencies.” A report is posted on the [website](#).

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### **Webinar and Events**

**Event: BIO-wide Virtual Office Hours**

**Sponsor: NSF**

**When: October 19, 2020 11:00 AM to October 22, 2020 4:00 PM**

**Website: [https://www.nsf.gov/events/event\\_summ.jsp?cntn\\_id=301092&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=301092&org=NSF)**

**Brief Description:** As highlighted in [Important Notice No. 147](#) and detailed in a recent [Dear Colleague Letter \(NSF 20-129\)](#), in accordance with NSF's proposal submission modernization effort, the Directorate for Biological Sciences (BIO) will implement a requirement for submission of full proposals via Research.gov (or Grants.gov) for BIO solicitations that accept proposal submission at any time, i.e., have no deadlines. This is the first phase in an eventual shift to all proposals being submitted via Research.gov (or Grants.gov) instead of in FastLane.



To support the community through this migration, we are offering a series of BIO-wide virtual office hours during which high-level information about the process will be provided and as an opportunity for the community to ask questions of BIO program officers.

The virtual office hours will occur:

- **Mon, Oct 19, 2020, 11:00 AM – 12:00 PM EDT**
- **Tues, Oct 20, 2020, 10:00 AM – 11:00 AM EDT**
- **Wed, Oct 21, 2020, 1:00 PM – 2:00 PM EDT**
- **Thurs, Oct 22, 2020, 3:00 PM – 4:00 PM EDT**

**To Register:** please visit [https://nsf.zoomgov.com/webinar/register/WN\\_-pXaabftTeiF2phfTaDxIw](https://nsf.zoomgov.com/webinar/register/WN_-pXaabftTeiF2phfTaDxIw). Please only register to attend one session.

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**To Register:** Please visit [https://nsf.zoomgov.com/webinar/register/WN\\_-pXaabftTeiF2phfTaDxIw](https://nsf.zoomgov.com/webinar/register/WN_-pXaabftTeiF2phfTaDxIw). Please only register to attend one session.

### **Event: DEB Virtual Office Hour: PRFB**

**Sponsor:** NSF

**When:** October 19, 2020 1.00 PM – 2.00 PM

**Website:** [https://www.nsf.gov/events/event\\_summ.jsp?cntn\\_id=301305&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=301305&org=NSF)

**Brief Description:** Upcoming Virtual Office Hours: Postdoctoral Research Fellowships in Biology (PRFB): Join us Monday, October 19th from 1pm-2pm EDT for DEB's next Virtual Office Hour. Program Officers will provide an introduction to the Postdoctoral Research Fellowships in Biology (PRFB) Solicitation ([NSF 20-602](#)). Representatives from each of the four DEB core programs will be available for questions, which can be on any DEB or NSF topic.

**To Register:** Please use the registration link below to participate. Upcoming DEB Virtual Office Hours are announced ahead of time on DEBrief, so sign up for blog notifications for reminders.

[REGISTER HERE](#)

### **Event: DMS Virtual Office Hours**

**Sponsor:** NSF

**When:** October 20, 2020 1.00 PM – 2.00 PM

**Website:** <https://www.poctrn.org/-/radx-webinar-series-delivering-new-rapid-technologies-for-the-diverse-us-market>

**Brief Description:** The current diagnosis of acute SARS-CoV-2 infection relies on tests that detect either viral RNA or viral antigens. We will explore the currently marketed gold standard COVID-19 tests. We also will review the different types of novel sample and detection technologies being developed by the RADx initiative that have the potential of revolutionizing testing for SARS-CoV-2 in the USA. The session will offer an assessment on progress toward this goal. Learn more about the upcoming sessions in this three-part webinar series [here](#).

**About RADx**

The RADx initiative was launched on April 29, 2020, to speed innovation in the development, commercialization, and implementation of technologies for COVID-19 testing. The initiative has four programs: RADx Tech, RADx Advanced Technology Platforms, RADx Underserved Populations and RADx Radical. It leverages the existing NIH Point-of-Care Technology Research Network. The RADx initiative partners with federal agencies, including the Office of the Assistant Secretary of Health, Department of Defense, the Biomedical Advanced Research and Development Authority, and U.S. Food and Drug Administration. [Learn more about the RADx initiative and its programs.](#)

**To Join the Webinar:** [Register](#) by October 19th.

**Event: RADx Tech Webinar Series: Delivering New COVID-19 Diagnostics to Close the Testing Gap for the U.S. Market**

**Sponsor:** NIH-NIBIB

**When:** October 20, 2020 2.00 PM – 3.00 PM

**Website:** [https://www.nsf.gov/events/event\\_summ.jsp?cntn\\_id=301375&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=301375&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\\_jE7BWegyQUGG5zguBZhWJQ](https://nsf.zoomgov.com/webinar/register/WN_jE7BWegyQUGG5zguBZhWJQ)

After registering, you will receive a confirmation email containing information about joining the webinar.

**Event: Sustainable Regional Systems Research Networks Webinar**

**Sponsor:** NSF

**When:** October 27, 2020 2.30 PM – 3.30 PM

**Website:** [https://www.nsf.gov/events/event\\_summ.jsp?cntn\\_id=301383&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=301383&org=NSF)

**Brief Description:** NSF will hold an informational webinar on October 27, 2020, starting at 2:30 PM Eastern to discuss the Sustainable Regional Systems Research Networks (SRS RNs) solicitation and answer questions. The United States is made up of regional systems comprising interdependent urban and rural systems and every community category between urban and rural. Urban systems are dependent on rural systems for the provisioning of food, energy, water, and other materials and natural resources, while rural systems are dependent on urban systems for markets, manufactured goods, and medical resources. These systems are also connected by ecological processes that both influence and are influenced by human behavior. The vital interconnection of urban-rural systems underscores the critical need for the advancement of sustainable regional systems (SRS). The goal of the NSF SRS RNs solicitation is to fund

convergent research and education that will advance sustainable regional systems science, engineering, and education to facilitate the transformation of current regional systems to enhance sustainability.

**To Join the Webinar:** Register in advance at

[https://nsf.zoomgov.com/webinar/register/WN\\_nh16JLVfQ3qzYtRqLlxA7g](https://nsf.zoomgov.com/webinar/register/WN_nh16JLVfQ3qzYtRqLlxA7g)

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

### **Event: Postdoctoral Research Fellowships in Biology Virtual Office Hours**

**Sponsor: NSF**

**When: November 2, 2020, 2020 4.00 PM – 5.00 PM**

**November 2, 2020, 2020 4.00 PM – 5.00 PM**

**Website:** [https://www.nsf.gov/events/event\\_summ.jsp?cntn\\_id=301321&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=301321&org=NSF)

**Brief Description:** The Postdoctoral Research Fellowships in Biology (PRFB) Program will be holding office hours during the first week of November. These provide an opportunity to learn more about the new solicitation ([NSF 20-602](#)) and the application process.

The office hours will involve a short presentation and time for questions through the Q&A function.

Materials from the office hours will be available on the PRFB Program site for those who are unable to attend and for general reference.

**To Join the Webinar:** Monday, November 2<sup>nd</sup> at 4 PM (EST) and Thursday, November 5<sup>th</sup> at 4 PM (EST): Please click the link below to join the webinar:

<https://nsf.zoomgov.com/j/1602272511?pwd=RVdGUjdmZzBWWkJUblZlZlZz09>

Passcode: ?^9=Z6

Or iPhone one-tap :

US: +16692545252,,1602272511# or +16468287666,,1602272511#

Or Telephone:

Dial (for higher quality, dial a number based on your current location): US: +1 669 254 5252 or +1 646 828 7666 or 833 568 8864 (Toll Free)

Webinar ID: 160 227 2511

### **Event: Deep Dive Into Deep Tech Incubation Workshop**

**Sponsor: NSF**

**When: November 18, 2020 12.00 PM – 1.00 PM**

**December 18, 2020 12.00 PM – 1.00 PM**

**Website:** [https://www.nsf.gov/events/event\\_summ.jsp?cntn\\_id=301160&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=301160&org=NSF)

**Brief Description: Part III: Wednesday, November 18, 12 pm Eastern (60 min)**

#### **Deep Tech Incubation and Academia Nexus**

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

## **Part IV: Friday, December 18, 12 pm Eastern (60 min)**

### **Deep Tech Venture Capital and Corporate Partnerships**

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

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

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## **Grant Opportunities**

### **National Science Foundation**

#### **Grant Program: Principles and Practice of Scalable Systems (PPoSS)**

**Agency:** National Science Foundation NSF 21-513

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21513/nsf21513.htm>

**Brief Description:** A key focus of the design of modern computing systems is performance and scalability, particularly in light of the limits of Moore's Law and Dennard scaling. To this end, systems are increasingly being implemented by composing heterogeneous computing components and continually changing memory systems as novel, performant hardware surfaces. Applications fueled by rapid strides in machine learning, data analysis, and extreme-scale simulation are becoming more domain-specific and highly distributed. In this scenario, traditional boundaries between hardware-oriented and software-oriented disciplines increasingly are blurred.

Achieving scalability of systems and applications will therefore require coordinated progress in multiple disciplines such as computer architecture, high-performance computing (HPC), programming languages and compilers, security and privacy, systems, theory, and algorithms. Cross-cutting concerns such as performance (including, but not limited to, time, space, and communication resource usage and energy efficiency), correctness and accuracy (including, but not limited to, emerging techniques for program analysis, testing, debugging, probabilistic reasoning and inference, and verification), security and privacy, robustness and reliability, domain-specific design, and heterogeneity must be taken into account from the outset in all aspects of systems and application design and implementation.

The aim of the Principles and Practice of Scalable Systems (PPoSS) program is to support a community of researchers who will work symbiotically across the multiple disciplines above to perform basic research on scalability of modern applications, systems, and toolchains. The intent is that these efforts will foster the development of principles that lead to rigorous and reproducible artifacts for the design and implementation of large-scale systems and applications across the full hardware/software stack. These principles and methodologies should simultaneously provide guarantees on correctness and accuracy, robustness, and security and privacy of systems, applications, and toolchains. Importantly, as described below, **PPoSS specifically seeks to fund projects that span the entire hardware/software stack** and

will lay the groundwork for sustainable approaches for engineering highly performant, scalable, and robust computing applications.

**Awards:** Standard Grant or Continuing Grant; **Anticipated Funding Amount:** 83,000,000

Planning Grants: Up to \$250,000 per award with duration up to 1 year.

LARGE Grants: Up to \$1,000,000 per year with duration up to 5 years.

**Letters of Intent:** Not required

**Proposal Submission Deadline:** January 25, 2021

**Contacts:** Anindya Banerjee, Program Director, CISE/CCF, telephone: (703) 292-7885,

email: [abanerje@nsf.gov](mailto:abanerje@nsf.gov)

- Wei Ding, Program Director, CISE/IIS, telephone: (703) 292-8017, email: [weiding@nsf.gov](mailto:weiding@nsf.gov)
- Rudolf Eigenmann, CISE/CCF, telephone: (703) 292-8910, email: [reigenma@nsf.gov](mailto:reigenma@nsf.gov)

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### **Grant Program: Dear Colleague Letter: Research on Integrated Photonics Utilizing AIM Photonics Capabilities**

**Agency:** National Science Foundation NSF 21-015

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21015/nsf21015.jsp?org=NSF>

**Brief Description:** AIM PHOTONICS - The American Institute of Manufacturing of Integrated Photonics (AIM) (<http://www.aimphotonics.com>) was established in July 2015 by the U.S. government under Department of Defense (DoD) leadership as a manufacturing innovation institute to advance integrated photonics. AIM Photonics is an industry-led public-private-partnership that focuses the nation's premiere capabilities and expertise to capture and mature critical manufacturing domestic capability for integrated photonics. The Institute's goal is to emulate the dramatic successes experienced by the semiconductor industry over the past 40 years and transition key lessons, processes, and approaches to the photonic integrated circuit (PIC) industry. AIM Photonics supports providing practical access and technology on-ramps for academic communities, as well as for industry and government. AIM Photonics is creating a National PIC manufacturing infrastructure, widely accessible and inherently flexible to meet the challenges of the future marketplace with practical, innovative PIC manufacturing-oriented solutions. Research projects utilizing the AIM Photonics fabrication process technologies via multi- project wafer runs should have an objective to bring a specific innovation to integrated photonics circuits and components or to demonstrate a new approach that uses integrated photonics as its differentiator. Examples of such challenges may include:

- Research into new applications of PICs that have promise of breakthrough performance due to the use of an integrated photonic component;
- New devices that are realizable within AIM Photonics standardized integrated silicon photonics processes;
- PIC implementations that have innovative contributions to advancements of photonics circuits (i.e., low power, greater bandwidths and dynamic ranges, better tolerances, new topologies, etc.);
- Innovative design approaches and new models of integrated photonics devices/circuits; and
- Materials and attachment technologies for incorporating integrated photonics into novel packages.

The NSF ENG Division web sites can be accessed at:

- ECCS: <https://www.nsf.gov/div/index.jsp?org=ECCS>
- IIP: <https://www.nsf.gov/div/index.jsp?org=IIP>

**Awards:** Various

**Letters of Intent:** Not required

**Proposal Submission Deadline:** Please contact the program officer.

**Contacts:** Dominique M. Dagenais ([ddagenai@nsf.gov](mailto:ddagenai@nsf.gov)), Division of Electrical, Communications and Cyber Systems (ECCS)



- Lawrence S. Goldberg ([lgoldber@nsf.gov](mailto:lgoldber@nsf.gov)), Division of Electrical, Communications and Cyber Systems (ECCS)
  - Stephen Konsek ([skonsek@nsf.gov](mailto:skonsek@nsf.gov)), SBIR/STTR, Division of Industrial Innovation and Partnerships (IIP)
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**Grant Program: Cybersecurity Innovation for Cyberinfrastructure (CICI)**

**Agency: National Science Foundation NSF 21-512**

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21512/nsf21512.htm>

**Brief Description:** The objective of the Cybersecurity Innovation for Cyberinfrastructure (CICI) program is to develop, deploy and integrate solutions that benefit the broader scientific community by securing science data, workflows, and infrastructure. CICI recognizes the unique nature of modern, rapid collaborative science and the breadth of security expertise, infrastructure and requirements among different practitioners, researchers, and scientific projects. CICI seeks projects in three program areas:

1. **Usable and Collaborative Security for Science (UCSS):** Projects in this program area should support novel and applied security and usability research that facilitates scientific collaboration, encourages the adoption of security into the scientific workflow, and helps create a holistic, integrated security environment that spans the entire scientific CI ecosystem.
2. **Reference Scientific Security Datasets (RSSD):** Projects in this program area should capture the unique properties of scientific workflows and workloads as reference data artifacts to support reproducible security research and protect the scientific process.
3. **Scientific Infrastructure Vulnerability Discovery (SIVD):** Projects in this program area should develop and apply techniques to proactively discover vulnerabilities and weaknesses in scientific infrastructure.

**Awards:** Standard Grant or Continuing Grant; **Anticipated Funding Amount:** \$5,000,000 to \$7,000,000

**Letters of Intent:** Not required

**Proposal Submission Deadline:** January 08, 2021

**Contacts:** Robert Beverly, Program Director, CISE/OAC, telephone: (703) 292-7068, email: [rbeverly@nsf.gov](mailto:rbeverly@nsf.gov)

- Kevin Thompson, Program Director, CISE/OAC, telephone: (703) 292-4220, email: [kthompso@nsf.gov](mailto:kthompso@nsf.gov)
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**Grant Program: Accelerating Research through International Network-to-Network Collaborations (AccelNet)**

**Agency: National Science Foundation NSF 21-511**

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21511/nsf21511.htm>

**Brief Description:** The goals of the Accelerating Research through International Network-to-Network Collaborations (AccelNet) program are to accelerate the process of scientific discovery and prepare the next generation of U.S. researchers for multiteam international collaborations. The AccelNet program supports strategic linkages among U.S. research networks and complementary networks abroad that will leverage research and educational resources to tackle grand research challenges that require significant coordinated international efforts. The program seeks to foster high-impact science and engineering by providing opportunities to cooperatively identify and coordinate efforts to address knowledge gaps and research needs. This solicitation invites proposals for the creation of international networks of networks in research areas aligned with a grand challenge identified as a priority by the research community or NSF, such as the NSF Big Ideas or in an active program solicitation. AccelNet awards support the



connections among research networks, rather than supporting fundamental research as the primary activity. Each network of networks is expected to engage in innovative collaborative activities that promote synergy of efforts across networks and provide professional development for U.S. students, postdoctoral scholars, and early-career researchers. Two proposal categories covered by this solicitation include: Design and Implementation.

It is strongly recommended that prospective PIs contact the AccelNet Program Officer(s) to ascertain that the focus and budget of their proposed activities are appropriate for this solicitation.

**Awards:** Standard Grant or Continuing Grant; **Anticipated Funding Amount:** \$10,000,000

**Letters of Intent:** Not required

**Proposal Submission Deadline:** January 04, 2021

**Contacts:** Claire A. Hemingway, OISE, telephone: (703) 292-7135, email: [chemingw@nsf.gov](mailto:chemingw@nsf.gov)

- Chris Schneider, BIO, telephone: (703) 292-7920, email: [cjschnei@nsf.gov](mailto:cjschnei@nsf.gov)
  - Ralph Wachter, CISE, telephone: (703) 292-8950, email: [rwachter@nsf.gov](mailto:rwachter@nsf.gov)
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### **Grant Program: Partnerships for Research and Education in Materials (PREM)**

**Agency:** National Science Foundation NSF 21-510

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21510/nsf21510.htm>

**Brief Description:** The DMR Partnerships for Research and Education in Materials Research (PREM) program aims to enable, build, and grow partnerships between minority-serving institutions and DMR-supported centers and/or facilities to increase recruitment, retention and degree attainment (which defines the PREM pathway) by members of those groups most underrepresented in materials research, and at the same time support excellent research and education endeavors that strengthen such partnerships.

**Awards:** Continuing Grant **Anticipated Funding Amount:** \$3,000,000

**Letters of Intent:** Not required

**Proposal Submission Deadline:** February 05, 2021

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

**Contacts:** Debasis Majumdar, Program Director, telephone: (703)292-4709, email: [dmajumda@nsf.gov](mailto:dmajumda@nsf.gov)

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### **Grant Program: Division of Molecular and Cellular Biosciences: Investigator-initiated research projects (MCB)**

**Agency:** National Science Foundation NSF 21-509

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21509/nsf21509.htm>

**Brief Description:** The Division of Molecular and Cellular Biosciences (MCB) supports quantitative, mechanistic, predictive, and theory-driven fundamental research designed to promote understanding of complex living systems at the molecular, subcellular, and cellular levels. While recognizing the need for thorough and accurate descriptions of biological complexes and pathways, the priority of the Division is to support work that advances the field by capturing the predictive power of mechanistic, quantitative, and evolutionary approaches.

Proposals are solicited to support research relevant to the four MCB core clusters:

- [Cellular Dynamics and Function](#)
- [Genetic Mechanisms](#)
- [Molecular Biophysics](#)
- [Systems and Synthetic Biology](#)

MCB gives high priority to research projects that use theory, methods, and technologies from life and physical sciences, mathematics, computational sciences, and engineering to address major biological questions that elucidate the rules governing subcellular and cellular processes. Research supported by

MCB uses a range of experimental and computational approaches—including *in vivo*, *in vitro* and *in silico* strategies—and a broad spectrum of model and non-model organisms, including microbes and plants.

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

**Letters of Intent:** Not required

**Proposal Submission Deadline:** Proposals Accepted Anytime

**Contacts:** Charles Cunningham, telephone: (703) 292-2283, email: [mcb-cdf@nsf.gov](mailto:mcb-cdf@nsf.gov)

- Manju M. Hingorani, telephone: (703) 292-7323, email: [mcb-gm@nsf.gov](mailto:mcb-gm@nsf.gov)
  - Wilson A. Francisco, telephone: (703) 292-7856, email: [mcb-mb@nsf.gov](mailto:mcb-mb@nsf.gov)
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### **Grant Program: Transitions to Excellence in Molecular and Cellular Biosciences Research (Transitions)**

**Agency:** National Science Foundation NSF 21-508

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21508/nsf21508.htm>

**Brief Description:** The Division of Molecular and Cellular Biosciences (MCB) has developed a new opportunity to enable researchers with a strong track record of prior accomplishment to pursue a new avenue of research or inquiry. This funding mechanism is designed to facilitate and promote a PI's ability to effectively adopt empowering technologies that might not be readily accessible in the PI's current research environment or collaboration network. Transformative research likely spans disciplines and minimizing the practical barriers to doing so will strengthen research programs poised to make significant contributions. The award is intended to allow mid-career or later-stage researchers (Associate or Full Professor, or equivalent) to expand or make a transition in their research programs via a sabbatical leave or similar mechanism of professional development and then develop that research program in their own lab. This award will also enable the PI to acquire new scientific or technical expertise, facilitate the investigator's competitiveness, and potentially lead to transformational impacts in molecular and cellular bioscience. The award would fund up to six months of PI salary during the first sabbatical or professional development year, followed by support for continued research for two subsequent years upon the PI's return to normal academic duties. Requests for flexibility in the timing of the sabbatical or professional development year will be considered with appropriate justification. Please contact the cognizant program director for the solicitation. Through this solicitation MCB and NSF hope to develop a novel mechanism that will encourage investigators to expand and/or transition to new research areas aligned with MCB priorities, to increase retention of investigators in science, and to ensure a diverse scientific workforce that remains engaged in active research.

**Awards:** Standard Grant or Continuing Grant; **Anticipated Funding Amount:** \$8,000,000

**Letters of Intent:** Not required

**Proposal Submission Deadline:** Proposals Accepted Anytime

- **Contacts:** Richard J. Cyr, telephone: (703) 292-8440, email: [rcyr@nsf.gov](mailto:rcyr@nsf.gov)
  - Anthony G. Garza, telephone: (703) 292-8440, email: [aggarza@nsf.gov](mailto:aggarza@nsf.gov)
  - Manju M. Hingorani, telephone: 703-292-7323, email: [mhingora@nsf.gov](mailto:mhingora@nsf.gov)
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### **Grant Program: Plant Genome Research Program (PGRP)**

**Agency:** National Science Foundation NSF 21-507

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21507/nsf21507.htm>

**Brief Description:** The Plant Genome Research Program (PGRP) supports genome-scale research that addresses challenging questions of biological, societal and economic importance. PGRP encourages the development of innovative tools, technologies and resources that empower a broad plant research

community to answer scientific questions on a genome-wide scale. Emphasis is placed on the scale and depth of the question being addressed and the creativity of the approach. Data produced by plant genomics should be usable, accessible, integrated across scales and of high impact across biology. Training, broadening participation, and career development are essential to scientific progress and should be integrated in all PGRP-funded projects.

Two funding tracks are currently available:

1. **RESEARCH-PGR TRACK:** Genome-scale plant research to address fundamental questions in biology, including processes of economic and/or societal importance.
2. **TRTech-PGR TRACK:** Tools, resources and technology breakthroughs that further enable functional plant genomics.

**Awards:** Standard Grant or Continuing Grant; **Anticipated Funding Amount:** \$30,000,000

**Letters of Intent:** Not required

**Proposal Submission Deadline:** Proposals Accepted Anytime

**Contacts:** Gerald Schoenknecht, E12337, telephone: (703) 292-5076, email: [gschoenk@nsf.gov](mailto:gschoenk@nsf.gov)

- Diane J. Okamuro, E12344, telephone: (703) 292-4508, email: [dokamuro@nsf.gov](mailto:dokamuro@nsf.gov)

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### **Grant Program: Division of Integrative Organismal Systems Core Programs**

**Agency:** National Science Foundation NSF 21-506

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21506/nsf21506.htm>

**Brief Description:** The Division of Integrative Organismal Systems (IOS) Core Programs support research aimed at understanding why organisms are structured the way they are and function as they do. Proposals are welcomed in all of the core scientific program areas supported by the Division of Integrative Organismal Systems (IOS). Areas of inquiry include, but are not limited to, developmental biology and the evolution of developmental processes, nervous system development, structure, modification, function, and evolution; biomechanics and functional morphology, physiological processes, symbioses and microbial interactions, interactions of organisms with biotic and abiotic environments, plant and animal genomics, and animal behavior. Proposals should focus on organisms as a fundamental unit of biological organization. Principal Investigators are encouraged to apply systems approaches that will lead to conceptual and theoretical insights and predictions about emergent organismal properties.

**Awards:** Standard Grant or Continuing Grant; **Anticipated Funding Amount:** \$70,000,000

**Letters of Intent:** Not required

**Proposal Submission Deadline:** Proposals Accepted Anytime

**Contacts:** Developmental Systems Program Directors, telephone: (703) 292-8417,

email: [IOSDSC@nsf.gov](mailto:IOSDSC@nsf.gov)

- Behavioral Systems Program Directors, telephone: (703) 292-8423, email: [IOSBSC@nsf.gov](mailto:IOSBSC@nsf.gov)
- Physical & Structural Systems Program Directors, telephone: (703) 292-8413, email: [IOSPSS@nsf.gov](mailto:IOSPSS@nsf.gov)
- Plant Genome Research Program Directors, telephone: (703) 292-8420, email: [dbipgr@nsf.gov](mailto:dbipgr@nsf.gov)
- Neural Systems Program Directors, telephone: (703) 292-8421, email: [IOSNSC@nsf.gov](mailto:IOSNSC@nsf.gov)

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### **Grant Program: Mid-scale Research Infrastructure-1 (Mid-scale RI-1)**

**Agency:** National Science Foundation NSF 21-505

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21505/nsf21505.htm>

**Brief Description:** NSF defines Research Infrastructure (RI) as any combination of facilities, equipment, instrumentation, or computational hardware or software, and the necessary human capital in support of

the same. Major facilities and mid-scale projects are subsets of research infrastructure. The NSF Mid-scale Research Infrastructure-1 Program (Mid-scale RI-1) supports the design or implementation of unique and compelling RI projects. Mid-scale RI-1 implementation projects may include any combination of equipment, instrumentation, cyberinfrastructure, broadly used large-scale datasets, and the commissioning and/or personnel needed to successfully complete the project, or the design efforts intended to lead to eventual implementation of a mid-scale class project. Mid-scale RI-1 design projects will include the design efforts intended to lead to eventual implementation of a mid-scale class RI project. Mid-scale RI-1 projects should fill a research community-defined scientific need or enable a national research priority to be met. Mid-scale RI-projects should also enable US researchers to remain competitive in a global research environment and involve the training of a diverse workforce engaged in the design and implementation of STEM infrastructure.

Mid-scale RI-1 emphasizes strong scientific merit, a response to an identified need of the research community or fulfillment of a national need to enable U.S. researchers to be competitive in a global research environment. Well-conceived technical and management plans are required for both design and implementation projects, as are well-developed plans for student training and the involvement of a diverse workforce in all aspects of mid-scale activities.

Within Mid-scale RI-1, proposers may submit two types of projects, "Implementation" (e.g., acquisition/construction) and "Design". The "Design" track is intended to facilitate progress toward readiness for a mid-scale range implementation project. Both Implementation and Design projects may involve new or upgraded research infrastructure. Mid-scale RI-1 "Implementation" projects may have a total project cost ranging from \$6 million up to but not including \$20 million. Only Mid-scale RI-1 "Design" projects may request less than \$6 million, with a minimum request of \$600,000 and a maximum request up to but not including \$20 million, as appropriate, to prepare for a future mid-scale range implementation project. (Note: Successful award of a Mid-scale RI-1 design project does not imply NSF commitment to the future implementation of the project being designed, nor is a Mid-scale RI-1 design award required for the submission of an implementation project.)

Mid-scale research infrastructure projects beyond the Mid-scale RI-1 program limit are separately solicited through the Mid-scale RI-2 program.

**Awards:** Standard Grant or Continuing Grant or Cooperative Agreement; **Anticipated Funding**

**Amount:** \$70,000,000 to \$80,000,000

**Letters of Intent:** Not required

**Proposal Submission Deadline:**

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

January 07, 2021

- **Full Proposal Deadline(s)** (due by 5 p.m. submitter's local time):

April 23, 2021

By Invitation Only

**Contacts:** Randy L. Phelps, OIA, telephone: (703) 292-8040, email: [rphelps@nsf.gov](mailto:rphelps@nsf.gov)

- Robert D. Fleischmann, BIO, telephone: (703) 292-7191, email: [rfleisch@nsf.gov](mailto:rfleisch@nsf.gov)
- Deepankar (Deep) Medhi, CISE, telephone: (703) 292-8950, email: [dmedhi@nsf.gov](mailto:dmedhi@nsf.gov)

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**Grant Program: Division of Environmental Biology (core programs) (DEB)**

**Agency: National Science Foundation NSF 21-504**

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21504/nsf21504.htm>

**Brief Description: The Division of Environmental Biology (DEB) Core** supports research and training on evolutionary and ecological processes acting at the level of populations, species, communities, and ecosystems. DEB encourages research that elucidates fundamental principles that identify and explain the

unity and diversity of life and its interactions with the environment over space and time. Research may incorporate field, laboratory, or collection-based approaches; observational or manipulative studies; synthesis activities; phylogenetic discovery projects; or theoretical approaches involving analytical, statistical, or computational modeling. Proposals should be submitted to the core clusters (Ecosystem Sciences, Evolutionary Processes, Population and Community Ecology, and Systematics and Biodiversity Sciences). DEB also encourages interdisciplinary proposals that cross conceptual boundaries and integrate over levels of biological organization or across multiple spatial and temporal scales. Research addressing ecology and ecosystem science in the marine biome should be directed to the Biological Oceanography Program in the Division of Ocean Sciences; research addressing evolution and systematics in the marine biome should be directed to the Evolutionary Processes or Systematics and Biodiversity Science programs in DEB.

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

**Letters of Intent:** Not required

**Proposal Submission Deadline:** Proposals Accepted Anytime

**Contacts:** Division of Environmental Biology, Phone: (703) 292-8480, email: [debquestions@nsf.gov](mailto:debquestions@nsf.gov)

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**Grant Program: Sustaining Infrastructure for Biological Research (Sustaining)**

**Agency:** National Science Foundation NSF 21-503

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21503/nsf21503.htm>

**Brief Description:** The Sustaining Infrastructure for Biological Research (Sustaining) Program supports the continued operation of existing research infrastructure that advances contemporary biology in any research area supported by the Directorate for Biological Sciences (BIO) at NSF. The Sustaining Program focuses primarily on sustaining critical research infrastructure that is cyberinfrastructure or biological living stocks and that is broadly applicable to a wide range of researchers. Projects are expected to ensure continued availability of existing, mature resources that will enable important science outcomes achieved by users representing a broad range of research supported by BIO and its collaborating organizations.

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

**Letters of Intent:** Not required

**Proposal Submission Deadline:** Proposals Accepted Anytime

**Contacts:** Sustaining Program, telephone: (703) 292-8470, email: [SustainingDBI@nsf.gov](mailto:SustainingDBI@nsf.gov)

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**Grant Program: Dear Colleague Letter: Non-Academic Research Internships for Graduate Students (INTERN) Supplemental Funding Opportunity**

**Agency:** National Science Foundation NSF 21-013

**RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21013/nsf21013.jsp>

**Brief Description:** Fostering the growth of a globally competitive and diverse research workforce and advancing the scientific and innovation skills of the U.S. is a [strategic objective of the National Science Foundation](#) (NSF). U.S. global competitiveness depends critically on the readiness of the Nation's Science, Technology, Engineering and Mathematics (STEM) workforce and NSF seeks to continue to invest in programs that directly advance this workforce. As part of this effort, a supplemental funding opportunity is available in fiscal years FY 2021 and beyond to provide graduate students with experiential learning opportunities through research internships to acquire core professional competencies and skills to support careers in any sector of the U.S. economy. NSF currently invests in a number of graduate student preparedness activities and has historically encouraged principal investigators (PIs) to include



such activities in research proposals to NSF. This Dear Colleague Letter (DCL) describes funding opportunities at NSF to ensure graduate students are well prepared for the 21st-century STEM workforce. NSF will consider supplemental funding requests for up to an additional six months of graduate student support on active NSF grants with the following goals:

1. To provide graduate students with the opportunity to augment their research assistantships or NSF Graduate Research Fellowship Program (GRFP) fellowships with non-academic research internship activities and training opportunities that will complement their academic research training;
2. To allow graduate students to pursue new activities aimed at acquiring professional development experience that will enhance their preparation for multiple career pathways after graduation; and
3. To encourage the participation of graduate students from underrepresented groups such as women, persons with disabilities, underrepresented minorities in science, technology, engineering, and mathematics (STEM), veterans, and persons from economically disadvantaged backgrounds.

### **DESCRIPTION OF THE ACTIVITIES SUPPORTED**

The PI/co-PI of an active NSF award may request supplemental funding for one or more graduate students to gain knowledge, skills and experiences that will augment their preparation for a successful long-term career through an internship in a non-academic setting, including the following:

- For-profit industry laboratories or industry research and development groups;
- Start-up businesses, such as (but not limited to) those funded through the NSF's Small Business Innovation Research (SBIR) program and Small Business Technology Transfer (STTR) program;
- Government agencies (all levels) and National Laboratories;
- Museums, science centers, and other informal learning settings;
- Policy think-tanks; and
- Non-profit organizations.

PIs are encouraged to discuss with the cognizant NSF program director activities that are synergistic with the NSF project scope. It is expected that the graduate student and the PI on the NSF grant will work together to identify innovative experiences that add the most educational value for the graduate student through activities that are not already available at the student's academic institution. Further, it is expected that the internship will be research-focused in a STEM field or in STEM education research and will be on-site at the host organization unless a specific exception to this is granted due to extenuating circumstances by the cognizant program officer.

### **ELIGIBILITY**

To be eligible, graduate students must have completed at least one academic year in their graduate programs (master's or doctoral) and be making satisfactory progress towards the completion of their degrees.

**Awards:** Supplement Grants

**Letters of Intent:** Not required

**Proposal Submission Deadline:** Supplemental funding requests may be submitted at any time with a target date of April 15th for each Fiscal Year.

**Contacts:** BIO: Dr. Elizabeth Blood ([eblood@nsf.gov](mailto:eblood@nsf.gov)) or Dr. Amanda Simcox ([asimcox@nsf.gov](mailto:asimcox@nsf.gov))

- CISE/OAC: Dr. Alan Sussman ([alasussm@nsf.gov](mailto:alasussm@nsf.gov))
- EHR: Dr. Earnestine Easter ([eeaster@nsf.gov](mailto:eeaster@nsf.gov)) or Dr. Christopher Hill ([chill@nsf.gov](mailto:chill@nsf.gov))
- ENG: Dr. Prakash Balan ([pbalan@nsf.gov](mailto:pbalan@nsf.gov))
- GEO: Dr. M. Brandon Jones ([mbjones@nsf.gov](mailto:mbjones@nsf.gov))
- MPS: The cognizant program officer on the NSF grant.
- SBE: Dr. Josie Welkom ([jwelkom@nsf.gov](mailto:jwelkom@nsf.gov))
- OIA/EPSCoR: Dr. Timothy VanReken ([tvanreke@nsf.gov](mailto:tvanreke@nsf.gov))



**Grant Program: Infrastructure Innovation for Biological Research (Innovation)****Agency: National Science Foundation NSF 21-502****RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21502/nsf21502.htm>

**Brief Description:** The Infrastructure Innovation for Biological Research Program (Innovation) supports research to design novel or greatly improved research tools and methods that advance contemporary biology in any research area supported by the Directorate for Biological Sciences at NSF. The Innovation Program focuses on research infrastructure that is broadly applicable to researchers in three programmatic areas: Bioinformatics, Instrumentation, and Research Methods. Infrastructure supported by this program is expected to advance biological understanding by improving scientists' abilities to manipulate, control, analyze, or measure critical aspects of biological systems, which can be essential for addressing important fundamental research questions. Proposals submitted to these programmatic areas can do one of three things to advance or transform research in biology: develop novel infrastructure, significantly redesign existing infrastructure, or adapt existing infrastructure in novel ways. Projects are expected to have a significant application to one or more biological science questions and have the potential to be used by a community of researchers beyond a single research team.

**Awards:** Standard Grant or Continuing Grant or Cooperative Agreement; **Anticipated Funding Amount:** \$18,000,000 to \$20,000,000

**Letters of Intent:** Not required

**Proposal Submission Deadline:** Proposals Accepted Anytime

**Contacts:** Innovation: Bioinformatics, phone: (703) 292-8470, email: [InnovationBioinformatics@nsf.gov](mailto:InnovationBioinformatics@nsf.gov)

- Innovation: Instrumentation, phone: (703) 292-8470, email: [InnovationInstrumentation@nsf.gov](mailto:InnovationInstrumentation@nsf.gov)
  - Innovation: Research Methods, phone: (703) 292-8470, email: [InnovationMethods@nsf.gov](mailto:InnovationMethods@nsf.gov)
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**Grant Program: Infrastructure Capacity for Biological Research (Capacity)****Agency: National Science Foundation NSF 21-501****RFP Website:** <https://www.nsf.gov/pubs/2021/nsf21501/nsf21501.htm>

**Brief Description:** The Infrastructure Capacity for Biological Research (Capacity) Program supports the implementation of, scaling of, or major improvements to research tools, products, and services that advance contemporary biology in any research area supported by the Directorate for Biological Sciences at NSF. The Capacity Program focuses on building capacity in research infrastructure that is broadly applicable to a wide range of researchers in three programmatic areas: Cyberinfrastructure, Biological Collections, and Biological Field Stations and Marine Laboratories. This program will also accept proposals for planning activities or workshops to facilitate coordination that may be necessary in building capacity in infrastructure that meets the needs of a research community. Areas not included in this program are instrumentation (PIs should submit to the MRI program) and, projects that develop infrastructure for a specific research project, laboratory, or institution (PIs should submitted to the relevant BIO programs that would normally support that research). Projects are expected to produce quality products, result in important science outcomes that will be achieved by the users of the resource, be openly accessible to a broad scientific and education community, and serve a community of researchers beyond a single research team.

**Awards:** Standard Grant or Continuing Grant or Cooperative Agreement; **Anticipated Funding Amount:** \$18,000,000 to \$20,000,000

**Letters of Intent:** Not required

**Proposal Submission Deadline:** Proposals Accepted Anytime

**Contacts:** Capacity Cyberinfrastructure, telephone: (703) 292-8470,  
email: [CapacityCyberinfrastructure@nsf.gov](mailto:CapacityCyberinfrastructure@nsf.gov)

- Capacity Biological Collections, phone: (703) 292-8470, email: [BiologicalCollections@nsf.gov](mailto:BiologicalCollections@nsf.gov)
- Capacity Biological Field Stations, telephone: (703) 292-8470, email: [BioFieldStations@nsf.gov](mailto:BioFieldStations@nsf.gov)

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## **National Institutes of Health**

### **Grant Program: Discovery of *in vivo* Chemical Probes for the Nervous System (R01 Clinical Trial Not Allowed)**

**Agency:** National Institutes of Health PAR-21-029

**RFP Website:** <https://grants.nih.gov/grants/guide/pa-files/PAR-21-029.html>

**Brief Description:** Technological innovations in chemical synthesis, cheminformatics, structural biology, and high throughput bioactivity and drug property assays have allowed rapid discovery of novel, small-molecule probes for the study of disease-related biological processes and mechanisms in academic environments.

Through this Funding Opportunity Announcement (FOA), NIMH, NIDA, NEI and/or NIA encourage applications to advance the discovery of small molecule chemical probes that would enable, by modulating the function of a novel biological target, mechanistic questions to be addressed in animal studies. The NIH aims to stimulate research in 1) discovery and development of a novel *in vivo* chemical probes for their potential use in understanding biological processes relevant to the missions of the participating NIH Institutes, and 2) use of chemical probes to discover and/or validate novel biological targets that will inform studies of brain disease mechanisms. Emphasis will be placed on research that provides new insight into important disease-related biological targets and biological processes. For example, applications may involve emerging therapeutic targets and mechanisms for the discovery of chemical probes that may lead to further development of therapeutics or provide insight into the biology of relevant diseases.

**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:** [Standard dates](#) apply.

The first standard due date for this FOA is February 5, 2021.

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

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

**Contact:** Enrique L. Michelotti, Ph.D., National Institute of Mental Health (NIMH), Telephone: 301-443-5415 Email: [michelottiel@mail.nih.gov](mailto:michelottiel@mail.nih.gov)

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

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

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

**Brief Description:** The integrated program of research and training supported by this FOA is intended for postdoctorates who are early in their postdoctoral training period in a given laboratory or research environment, rather than for advanced postdoctorates. Support for early postdoctoral training will

maximize the training potential of this fellowship award. Given the interval when applications will be accepted (from 12 months prior to completing terminal degree requirements to 12 months after starting postdoctoral training), it is recognized that some applicants are unlikely to have had the opportunity to generate preliminary data for the proposed project. Accordingly, it is expected that there will be no preliminary data in the application, although inclusion of preliminary data is permissible. The proposed research and training plan should focus on a research area and/or skill set that clearly and strongly complements the applicant's existing research expertise and skills and that will markedly broaden the applicant's knowledge and skills. For example, an applicant with existing skills in molecular neuroscience might propose a research training plan that emphasizes circuit-level neuroscience approaches to brain function. An applicant with existing neuroscience training might propose a research training plan that emphasizes neuroethics. An applicant trained in physics or statistics might propose a research training plan that emphasizes data-intensive/computational approaches to neuroscience.

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

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

**Proposal Submission Deadline:** December 9, 2020; August 10, 2021, April 11, 2022, December 9, 2022 by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on these dates. No late applications will be accepted for this Funding Opportunity Announcement. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

**Contact:** Ashlee Van't Veer, PhD; National Institute of Mental Health (NIMH); Telephone: 301-443-3107; Email: [Brain.Initiative.Training@nih.gov](mailto:Brain.Initiative.Training@nih.gov)

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**Grant Program: BRAIN Initiative: Pilot resources for brain cell type-specific access and manipulation across vertebrate species (U01 Clinical Trial Not Allowed)**

**Agency:** National Institutes of Health RFA-MH-20-556

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-20-556.html>

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

1. Reagents enable unique access to many molecularly defined neural cell types that are found in a complex brain region or significant brain network of a vertebrate and that could exhibit distinct cellular, circuit, or behavioral functions.
2. Reagents are easily produced, disseminated, utilized, and stored.
3. Collection of reagents are catalogued for users in a brain atlas and registered to cell types based on molecular, anatomical, or other properties that can be referenced.
4. Reagents are applicable to both genetically tractable and less tractable organisms in common use by neuroscientists.
5. Specificity and efficiency of targeting brain cell types are validated to be quantitatively high and reproducible.
6. Toxic or perturbative effects to cells, tissues, and organisms are quantitatively low.
7. Access technologies provide flexibility to deliver various reporter, sensor, and effector payloads and are compatible with other methods of access.

8. Technologies to access cell types are potentially usable in human *ex vivo* brain tissue or cells to target gene editors or other effectors to disease-relevant circuits for future therapies.

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

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

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

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

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

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

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

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

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

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

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

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

**Proposal Submission Deadline:** November 12, 2020;

No late applications will be accepted for this FOA.

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

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

**Contact:** Jean C. ZenKlusen, PhD, NCI, Phone: 301-451-2144, Email: [jz44m@nih.gov](mailto:jz44m@nih.gov)

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

**Grant Program: Department of Army Energetics Basic Research Center Fiscal Year 2022**  
**Agency: Department of Defense Dept of the Army -- Materiel Command W911NF-21-S-0001**  
**Website:** <https://www.grants.gov/web/grants/view-opportunity.html?oppId=329459>

**Brief Description:** The future Army is projected to be unable to achieve dominance in range and lethality due to inadequate energetic formulations and form factor limitations associated with current weapon systems. Basic research generates new knowledge that may be exploited to develop and deliver new materials and technologies that contribute to enhanced lethal effects at the system level as well as increased range and a smaller payload. These, in turn, enable space for larger, missioncritical systems, and shorter time-to-target ensuring Army battlefield dominance in MultiDomain Operations. Army research must encompass new ways to expedite the discovery, design, and scale-up of new materials and concepts which when integrated into newly designed weapons components (e.g. additively manufactured high strength steels with pre-formed fragmentation patterns, and structural reactive materials) developed at ARL and across the Army and DoD communities, will deliver decisive weapons overmatch.

To achieve the desired future technological overmatch, advances must be made in new synthetic methodologies targeting novel energetic materials to increase performance for both explosive and propulsion applications. Physics-based synthesis (e.g., processes that use pressure, mechanical action, electromagnetic fields and/or high-energy plasmas) can potentially access materials outside those available via classical chemical synthesis, allowing exploitation of novel, nontraditional materials capable of explosive energy release (e.g., dense metastable extended solids such as doped poly-nitrogen, structural-bond-energy release materials, composite reactive materials).

**Awards:** It is anticipated that \$3M in annual funding will be available for award to a single proposal under Funding Area One (Center). It is also anticipated that up to \$1M in annual aggregate funding will be available for all awards under Funding Area Two (Seedling). It is anticipated that the Seedling awards will range from \$60k-\$250k per year, with typical awards in the range of \$120k-\$180k per year. Awards in the upper end of the range will be made only for extremely meritorious proposals. Seedling Proposals submitted under Funding Area Two in excess of \$250k per year will not be considered. It is anticipated that \$4M per year is the aggregate funding available for all full proposal awards under the EBRC BAA (to include Center and Seedling awards).

**Letter of Intent:** White papers are required.

**Proposal Deadline:** White Papers Due: 3 January 2021; Final Proposals by Invite Only Due: 2 May 2021

**Contact Information:** Program Manager: Ralph A. Anthenien Jr., [ralph.a.anthenien2.civ@mail.mil](mailto:ralph.a.anthenien2.civ@mail.mil), 919-549-4317 b. Technical Points of Contact (TPOCs) i. Robert Mantz [robert.a.mantz.civ@mail.mil](mailto:robert.a.mantz.civ@mail.mil) 919-549-4309 ii. Stephen Lee [stephen.j.lee28.civ@mail.mil](mailto:stephen.j.lee28.civ@mail.mil) 919-549-4365 iii. Edward Byrd [edward.f.byrd2.civ@mail.mil](mailto:edward.f.byrd2.civ@mail.mil) 410-306-0729

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**Grant Program: Young Faculty Award (YFA)**

**Agency: Department of Defense DARPA DARPA-RA-21-01**

**Website:** <https://beta.sam.gov/opp/aabf37db17b949b88494684292eb854e/view>

**Brief Description:** The Defense Advanced Research Projects Agency (DARPA) Young Faculty Award (YFA) program aims to identify and engage rising stars in junior faculty positions in academia and equivalent positions at non-profit research institutions and expose them to Department of Defense (DoD) and National Security challenges and needs. In particular, YFA will provide high-impact funding to elite researchers early in their careers to develop innovative new research directions in the context of enabling transformative DoD capabilities. The long-term goal of the program is to develop the next generation of scientists and engineers in the research community who will focus a significant portion of their future careers on DoD and National Security issues. DARPA is particularly interested in identifying outstanding



researchers who have previously not been performers on DARPA programs, but the program is open to all qualified applicants with innovative research ideas.

**Awards:** Multiple awards are anticipated. Anticipated Funding Available for Award: Each award will include a 24-month base period (a maximum of \$500,000) and a 12-month option period (a maximum of \$500,000).

**Letter of Intent:** Executive Summary Due Date: October 26, 2020, 4:00 p.m. o FAQ Submission Deadline: December 21, 2020, 4:00 p.m. See Section VIII.A.

**Proposal Deadline:** Full Proposal Due Date: January 8, 2021, 4:00 p.m.

**Contact Information:** BAA Coordinator [DARPA-RA-21-01@darpa.mil](mailto:DARPA-RA-21-01@darpa.mil)

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

**Agency: Department of Defense DARPA - Defense Sciences Office HR001120S0048**

**Website:** <https://beta.sam.gov/opp/36d6bc789b364142a0f7a267017b06d9/view>

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

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

**Proposal Deadline:** Executive Summary Due Date and Time: June 11, 2021, 4:00 p.m. o Proposal Abstract Due Date and Time: Abstracts may be submitted on a rolling basis until June 11, 2021, 4:00 p.m. o FAQ Submission Deadline: June 2, 2021, 4:00 p.m. Proposals may be submitted on a rolling basis until June 11, 2021, 4:00 p.m

**Contact Information:** Phil Root, Deputy Director, DARPA/DSO o BAA Email: [HR001120S0048@darpa.mil](mailto:HR001120S0048@darpa.mil)

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

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

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

**Brief Description:** Naval Information Warfare Center, Pacific (NIWC Pacific), is soliciting proposals in accordance with FAR 35.016, DoDGARS 22.315(a), and DoD Other Transactions (OT) Guide for Prototype Projects for research in areas relating to the advancement of C4ISR capabilities, enabling technologies for Information Operations and Cyberspace Operations, and Information Technology systems. Submissions in response to this announcement shall be for areas relating to the advancement of Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) capabilities, enabling technologies for Information Operations and Cyberspace Operations, and



Information Technology systems. Proposed research should investigate unique and innovative approaches for defining and developing next generation integratable C4ISR capabilities and command suites. The area topics reflect the interest of the NIWC Pacific, but interest from other Team NAVWAR components could be generated and selections could be made for funding by other than NIWC Pacific. Only offers that are in the areas of basic research, applied research, advanced technology development, and advanced component development and prototypes will be considered (see Appendix A). Testing and optimizing of concepts or prototypes may be necessary. This may involve virtual simulation and/or laboratory as well as at sea measurements.

**Awards:** Multiple awards are anticipated

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

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

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## **Department of Transportation**

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

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

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

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

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

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

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

**Letter of Intent:** Not Required

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

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

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### **Department of Agriculture:**

**Grant Program: Community Connect Grant Program**

**Agency: Department of Agriculture RDRUS-CC-2021**

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

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

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

**Proposal Deadline:** December 23, 2020

**Contact Information:** Contact Us at: [https://www.rd.usda.gov/programs-services/communityconnect-grants#blocktabs-program\\_page--45](https://www.rd.usda.gov/programs-services/communityconnect-grants#blocktabs-program_page--45).

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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: H-1B One Workforce Grant Program**

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

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

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

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

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

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

**Contact Information:** Andrea Chism Grants Management Specialist [Chism.Andrea.N@dol.gov](mailto:Chism.Andrea.N@dol.gov)

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

**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](mailto:lamar.revis@noaa.gov)

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**Grant Program: FY2021 Marine Debris Research**

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

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

**Brief Description:** The NOAA Marine Debris Program (MDP), authorized in the Marine Debris Act (33 U.S.C. 1951-1958), provides funding to support eligible organizations to conduct research directly related to marine debris through field, laboratory, and modeling experiments. NOAA MDP invites applications for research that investigates and identifies the critical input pathways for marine debris introduction into the coastal zone (shoreline or nearshore), including evaluation of appropriate simultaneous pathways of riverine transport downstream, surface runoff, stormwater discharge, and wind-driven transport, and degradation and fragmentation of debris during transport. Projects should be original, hypothesis-driven projects that have not previously been addressed to scientific standards. Successful proposals through this solicitation will be funded through cooperative agreements. Funding of up to \$2,000,000 is expected to be available for Marine Debris Research grants in Fiscal Year 2021 (FY21). Funding for this grant competition comes through the NOAA Marine Debris Program as annual or supplemental appropriations to the Office of Response and Restoration, National Ocean Service.

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

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

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

**Contact Information:** Tom Barry [tom.barry@noaa.gov](mailto:tom.barry@noaa.gov), 202-870-2863

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**EPA**

**Grant Program: Center for Early Lifestage Vulnerabilities to Environmental Stressors**

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

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

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

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

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

**Contact:** echnical Contact: Intaek Hahn, 202-564-4377;

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

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## Department of Energy

### **Grant Program: Connected Communities**

**Agency:** Department of Energy DE-FOA-0002206

**Website:** <https://eere-exchange.energy.gov/#FoaId9d24afcd-e292-4ea2-a4d3-d36e2b9dd9c7>

**Brief Description:** A Connected Community (CC) is a group of grid-interactive efficient buildings GEB with diverse, flexible end use equipment and other distributed energy resources (DERs) that collectively work to maximize building, community, and grid efficiency. Under this FOA, DOE will select a portfolio of “Connected Community” projects totaling up to \$65 million in varying climates, geographies, building types, building vintages, DERs utility/grid/regulatory structures and resource bases. Through funding these projects, DOE hopes to find and share technical and market solutions that will increase demand flexibility and energy efficiency.

**Modification 0001:** The purpose of this modification was to add Section I.C.: Teaming List, to page 18 of the FOA.

There will be a FOA informational webinar held on Tuesday, November 10, 2020, at 2:00pm Eastern Standard Time (EST). The Link to this webinar is: <https://doe.webex.com/doe/onstage/g.php?MTID=e79d137a47d21fdde524f723b98c55b77>

Questions regarding the FOA must be submitted to [CCPilotsFOA@ee.doe.gov](mailto:CCPilotsFOA@ee.doe.gov)

Answers to the questions will be posted to an excel spreadsheet found in the announcement Documents section of the FOA posting.

**Awards:** Anticipated available funding: \$65,000,000

**Letter of Intent:** Concept Paper Submission Deadline: 2/17/2021 5:00 PM ET

**Submission Deadline:** Full Application Submission Deadline: 3/3/2021 5:00 PM ET

**Contact:** [EERE-ExchangeSupport@hq.doe.gov](mailto:EERE-ExchangeSupport@hq.doe.gov)

For questions about the Exchange System or submitting an application through Exchange. Include FOA name and number in subject line

- [CCPilotsFOA@ee.doe.gov](mailto:CCPilotsFOA@ee.doe.gov)

For questions regarding the Connected Communities FOA

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### **Grant Program: Buildings Energy Efficiency Frontiers & Innovation Technologies (BENEFIT) – 2020**

**Agency:** Department of Energy DE-FOA-0002196

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

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



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

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

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

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

**Contact:** [EERE-ExchangeSupport@hq.doe.gov](mailto:EERE-ExchangeSupport@hq.doe.gov) EERE eXCHANGE

- [DE-FOA-0002196@netl.doe.gov](mailto:DE-FOA-0002196@netl.doe.gov) FOA Questions

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## [NASA](#)

### **Grant Program: University Student Research Challenge**

**Agency:** NASA NNH20ZEA001N-USRC

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

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

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

**Notice of Intent:** Not required.

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

**Contact:** Quickest way to resolve questions about this NRA is to email questions to: [HQ-USRC@mail.nasa.gov](mailto:HQ-USRC@mail.nasa.gov)

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

**Agency:** NASA NNH20ZDA001N-OCOST

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

**Brief Description:** Proposals are solicited for participation in the Science Team for the Orbiting Carbon Observatory-2 (OCO-2) and Orbiting Carbon Observatory-3 (OCO-3) missions. NASA launched the OCO-2 mission in July 2014. OCO-2 has been operating on orbit, producing precise column average CO2 concentration data globally with validated precision and accuracy of better than 0.25% , since September 2014. The OCO-3 mission, with a near-replica instrument to OCO-2, has been operating on the



International Space Station (ISS) since June of 2019 and is now returning data with similar precisions as OCO-2. The primary differences in the data sets are the spatial and temporal sampling as a result of the different orbits of the observations (especially inclination) and the available observational modes of the instruments.

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

**Notice of Intent:** November 13, 2020

**Proposal Deadline:** January 13, 2021

**Contact:** Kenneth W. Jucks, Earth Science Division, Science Mission Directorate, NASA Headquarters Washington, DC 20546-0001 Telephone: 202-358-0476 Email: [kenneth.w.jucks@nasa.gov](mailto:kenneth.w.jucks@nasa.gov)

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## **National Endowment of Humanities**

### **Grant Program: Collaborative Research**

**Agency:** National Endowment for the Humanities 20201202-RZ

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

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

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

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

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

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

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

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### **Grant Program: Digital Humanities Advancement Grants**

**Agency:** National Endowment for the Humanities 20210115-HAA

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

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

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

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

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

**Contact:** Contact the Office of Digital Humanities Team [odh@neh.gov](mailto:odh@neh.gov)

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### **Grant Program: Scholarly Editions and Scholarly Translations**

**Agency:** National Endowment for the Humanities 20201202-RQ

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

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

The program supports continuous full-time or part-time activities during the periods of performance of one to three years. Projects must be undertaken by at least two scholars working collaboratively. While international collaboration is permitted, projects must maintain an equitable balance between scholars at U.S. institutions and scholars at non-U.S. institutions. In addition to supporting long-term editorial projects, the program also encourages applications for short-term projects and for projects that are at a planning stage.

**Award:** Maximum award amount \$300,000; up to \$450,000 may be available for projects.

**Proposal Deadline:** Application due December 2, 2020

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

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## **Private Foundations**

### **New Jersey Health Foundation**

**Grant Program:** Innovation Grants Program

**Agency:** New Jersey Health Foundation

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

**Brief Description:** The Innovation Grants Program helps researchers and students at our affiliated organizations -- Kessler Foundation, New Jersey Institute of Technology, Princeton University, Rowan

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

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

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

**Proposal Deadline:** Applications will be accepted from September 21, 2020 through November 13, 2020.

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

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## **Bill and Malina Gates Foundation**

### **Grant Program: Grand Challenge: Balance the Equation - A Grand Challenge for Algebra 1**

**Agency:** Bill and Malina Gates Foundation

**Website:** <https://gcgh.grandchallenges.org/challenge/balance-equation-grand-challenge-algebra-1>

**Brief Description:** Grand Challenges is a family of initiatives fostering innovation that historically solve key problems in global health and development for those most in need. These initiatives use challenges to focus attention and effort on specific problems. They can be traced back to over a century ago when a mathematician named David Hilbert defined a set of unsolved problems to spark progress in the field of mathematics. Each initiative is an experiment in the use of challenges to focus innovation on having an effect. Balance the Equation is the first-ever Grand Challenge focused on U.S. education.

The Bill & Melinda Gates Foundation is seeking to disrupt the deeply imbalanced system against this generation – and previous generations – of Black, Latino, English Learners (ELs), and students experiencing poverty in the United States, who we will refer to as priority students, as it relates to their Algebra 1 experience in 7th, 8th, or 9th grade, in-class or online.

**Awards: Phase 1: Planning and Prototyping** grant for US\$100,000 to develop a pilot study plan alongside our external learning partner, American Institute for Research ([AIR](#)).

**Proposal Deadline:** Nov 06, 2020, 12:00 pm PST

**Contact:** [For questions, please contact the Balance the Equation Grand Challenge Team at: \[balancetheequation@gatesfoundation.org\]\(mailto:balancetheequation@gatesfoundation.org\)](#)

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## **Streamlyne Question of the Week**

Question: Can I generate budgets for multiple years from the Year-1 budget in Streamlyne?

Answer: Yes! You only need to input the Year-1 budget and then click on the “generate all periods” button. Streamlyne will create budget sheets for the remaining periods. You can then go to “summary” under the budget tab to review budget sheets for all periods. You can also change specific budget items that you allocated in Year-1 but you do not want to continue them in the following periods.

More FAQs on Streamlyne: Please visit <http://www.njit.edu/research/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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