

NJIT Research Newsletter

Issue: ORN-2020-16

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**. The Newsletter is posted on the NJIT Research Website <https://research.njit.edu/funding-opportunities>.

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Special Announcements

Open Forum on Research and Graduate Studies

WebEx Event

Date: Friday, May 1, 2020

Time: 11.30 AM - 1.00 PM

Brief Description: In response to the unprecedented COVID-19 pandemic crisis, NJIT activated a Research Continuity Plan halting non-essential research operations for the safety of faculty, staff, students and our community in compliance with the emergency regulations and stay-at-home order by the State of New Jersey. The open forum will provide an update on the current status of the NJIT research enterprise with a potential research restoration plan as we expect to return to campus in the near future. The panel will answer questions related to the COVID-19 impact on research operations and productivity, grant management, potential impact on PhD dissertation and MS thesis research, online process for dissertation and thesis defense, and path to student graduation.

Panel:

- Fadi Deek, Provost and Senior Executive VP
- Andrew Christ, Senior VP for Real Estate Development and Capital Operations
- Basil Baltzis, Senior Vice Provost for Academic Affairs and Student Services
- Atam Dhawan, Senior Vice Provost for Research
- Sotirios Ziavras, Vice Provost for Graduate Studies & Dean of the Graduate Faculty
- Eric Hetherington, Executive Director, Sponsored Research Programs Administration
- Cristiana Kunyczka, Director, Office of Global Initiatives

NJIT community members wishing to submit questions should do so in advance by sending them via email to ResearchOpenForum2020@njit.edu Below is information regarding how to participate in the virtual open forum via Webex.

To Join the WebEx Event: Below are the ATTENDEE details to join the Open Forum on Research and Graduate Studies WebEx Event.

CONNECT with COMPUTER:

1. Click this link: <https://njit.webex.com/njit/onstage/g.php?MTID=eacb3ba7471da3e0133ef16a8ccb8bcc4>

Or (alternatively) Go to: njit.webex.com

Enter meeting number: 925 757 626 Hit Enter.

1. Enter your name, email, and Event password

Meeting password: njit51

Click "Join Now"

1. Fill out the registration form and then click "Submit"

2. 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: 925 757 626 followed by #

Then, for Attendee ID number, hit #

NSF New Proposal Submission Guidelines with Biographical Sketches and Current and Pending Support

NSF recently recorded [a webinar about the requirement to use an NSF-approved format](#) for both the biographical sketch and current & pending support documents as part of proposals submitted to NSF. The policy, outlined in the NSF *Proposal and Award Policies and Procedures Guide* (PAPPG) (NSF 20-1), goes into effect for proposals submitted or due, on or after June 1, 2020. The two NSF-approved formats are [SciENCv: Science Experts Network Curriculum Vitae](#), and an NSF Fillable PDF.

Webinar topics include:

- the policy guidance for preparation of the biographical sketch and current and pending support sections of the proposal;
- a walk-through of the user experience in accessing these formats in NSF systems;
- detailed guidance from NIH on using SciENCv for preparing both documents; and
- answers to a number of frequently asked questions.

For additional information, see the NSF pages for the [biographical sketch](#) and [current and pending support](#). We would like your feedback on these formats prior to the June 1st requirement. Please provide your comments and questions to policy@nsf.gov.

For additional information on the changes in NSF proposal submission guidelines, please see the website https://www.nsf.gov/pubs/policydocs/pappg20_1/index.jsp

Research Continuity Plan Update Guidance on Financial Management of Grants and Contracts

The Office of Management and Budget issued a memorandum on 19 March 2020 ([OMB 20-17 https://www.whitehouse.gov/wp-content/uploads/2020/03/M-20-17.pdf](https://www.whitehouse.gov/wp-content/uploads/2020/03/M-20-17.pdf)) providing guidance on issues related to grant management during the COVID-19 disruption. This memorandum provides short term relief for administrative, financial management, and audit requirements under [2 CFR Part 200, Uniform Administrative Requirements, Cost principles and Audit Requirements for Federal Awards](#), for the management of grants and contracts from all federal and non-federal sources under the COVID-19 public health emergency without compromising federal financial assistance accountability requirements.

Funding agencies such as NSF and NIH are following the OMB guidance with respect to grant management during this disruption to university business and research. The [OMB Memorandum M-20-17](#) with the important information on the financial management of the research grants and contracts is posted on the research website <https://research.njit.edu/njit-research-continuity-plan>. Links to current notifications from federal agencies are provided below. Principal investigators should check with the websites of their specific funding agencies for more information.

COVID-19 Information for NSF applicants and award recipients FAQ is regularly updated on the website https://www.nsf.gov/bfa/dias/policy/covid19/covid19faqs_dcl.pdf. COVID-19 Information for NIH applicants and recipients of NIH funding is regularly updated on the website <https://grants.nih.gov/policy/natural-disasters/corona-virus.htm>. A multiple Funding Agencies Research Impact Guidance Matrix by the Council of Government Relationships is posted on the website <https://www.cogr.edu/sites/default/files/COVID%20AGENCY%20MATRIX%20APRIL%2015-JB.pdf>

Grant Opportunity Alerts

Keywords and Areas Included in the Grant Opportunity Alert Section Below

NSF: Program: Coastlines and People (CoPe); NSF Program on Fairness in Artificial Intelligence in Collaboration with Amazon (FAI); NSF Convergence Accelerator Phase I and II; Cybersecurity Education in the Age of Artificial Intelligence; Opportunities for Promoting Understanding through Synthesis (OPUS); Cyber-Physical Systems (CPS); Civic Innovation Challenge; Disrupting Operations of Illicit Supply Networks (D-ISN); PFE: Hydrologic Sciences (HS); Research Initiation in Engineering Formation (PFE: RIEF)

NIH: Institutional Development Award (IDeA) Networks for Clinical and Translational Research (IDeA-CTR) (U54); National Centers for Biomedical Imaging and Bioengineering (NCBIB) (P41); Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grant (Parent T35); BRAIN Initiative: Exploratory Team-Research BRAIN Circuit Programs - eTeamBCP (U01) NIH Science Education Partnership Award (SEPA) (R25); Notice of Special Interest (NOSI) regarding the Availability of Urgent Competitive Revisions for Research on the 2019 Novel Coronavirus (2019-nCoV); Partnerships for Countermeasures against Select Pathogens (R01)

Department of Defense/US Army/DARPA/ONR: DoD Multiple Sclerosis, Investigator- Initiated Research Award; Biological Technologies; Invisible Headlights (IH); PRMRP Investigator-Initiated

Research Award for Emerging Viral Diseases and Respiratory Health; UNITED STATES MILITARY ACADEMY Broad Agency Announcement; Department of Defense (DoD) – Science, Technology, Engineering, and Mathematics (STEM) Educational Outreach Programs; Newton Award for Transformative Ideas during the COVID-19 Pandemic; Peer Reviewed Cancer Research Program Idea Award; DoD Spinal Cord Injury, Investigator- Initiated Research Award; Air Force Fiscal Year 2021 Young Investigator Research Program (YIP); 2020 Broad Agency Announcement; Microsystems Technology Office (MTO); FY 2021 Multidisciplinary Research Program of the University Research Initiative (MURI); Defense University Research Instrumentation Program (DURIP); Quantum Information Sciences; NRL Long Range BAA for Basic and Applied Research

Department of Transportation: UTC PROGRAM TIER 1 COMPETITION 2020; FY 2020 National Infrastructure Investments

Department of Agriculture: Distance Learning and Telemedicine Grants; Biotechnology Risk Assessment Grants Program; REAP-Renewable Energy Systems and Energy Efficiency Improvements

Department of Labor: Youth Apprenticeship Readiness Grant Program

EPA: Source Reduction Assistance Grant Program; National Environmental Education and Training Program

Department of Energy: Quantum Information Science Research for Fusion Energy Sciences; Scientific Machine Learning for Modeling and Simulations; Artificial Intelligence and Decision Support for Complex Systems; Novel Research and Development for the Direct Capture of Carbon Dioxide from the Atmosphere

NASA: ROSES 2020: Advanced Component Technology; Living With a Star Science; ROSES 2020: Space Weather Science Application Operations-to-Research; Heliophysics Supporting Research; HELIOPHYSICS - Early Career Investigator Program; Astrophysics Research and Analysis

National Endowment of Humanities: Research and Development; Advanced Topics in the Digital Humanities; Fellowships

Brain Health Foundation: 2021 Scientific Innovations Award

Facebook: Facebook Research

Recent Research Grant and Contract Awards

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

PI: John Federici (PI) and Ian Gatley (Co-PI)

Department: Physics

Grant/Contract Project Title: Asset Protection and Counter Technologies

Funding Agency: U.S. Army (ARDEC)

Duration: 04/10/20-01/19/21

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

Department: Center for Solar Terrestrial Research

Grant/Contract Project Title: Quantification of Thermal Response Driven by Electron Acceleration in Solar Flares

Funding Agency: NASA

Duration: 03/16/18-03/15/21

PI: Yan Xu (PI) and Haimin Wang (Co-PI)
Department: Center for Solar Terrestrial Research
Grant/Contract Project Title: Spectral Analysis and Modeling of the Flaring Lower Solar Atmosphere in Multi-Wavelengths
Funding Agency: NASA
Duration: 04/16/19-04/15/22

PI: Andrew Sirenko (PI)
Department: Physics
Grant/Contract Project Title: Non-Reciprocal Effects in Non-Centrosymmetric Magnets: Neutron and Optical Studies
Funding Agency: U.S. Department of Energy (DOE)
Duration: 06/01/19-05/31/21

PI: Wenda Cao (PI)
Department: Center for Solar Terrestrial Research
Grant/Contract Project Title: International Collaborations to Optimize Scientific Output of the New Solar Telescope in Big Bear
Funding Agency: National Astronomical Observatory of China (NAOC)
Duration: 01/01/14-12/31/24

In the News...

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

Supplements for Undergrad Research: The National Science Foundation's Computer and Information Science and Engineering directorate is making two exceptions to its prior guidance (NSF 20-016) on Research Experiences for Undergraduates supplemental funding for grantees: "(i) CISE will accept REU supplemental funding requests to active CISE awards through July 1, 2020; and (ii) CISE will also consider requests for an additional number of students per active project beyond the limitations specified in NSF 20-016, at a funding level of \$8,000 per REU student. For example, for single-investigator projects, CISE will consider requests in excess of two students per project for this summer. Proposers who received REU supplements earlier this year are also eligible to apply for additional supplements if they are able to identify opportunities to mentor additional REU students. CISE will prioritize REU supplemental funding requests most responsive to the mitigation of adverse undergraduate employment and education circumstances caused by the COVID-19 pandemic."

\$484 Billion CAREA Act Relief Measure: Stimulus 3.5 will replenish small business loan funds authorized in the \$1.8 trillion Coronavirus Aid, Relief, and Economic Security (CARES) Act that were swiftly depleted. But at Democrats' insistence, it also contains \$75 billion for financially drained medical centers and \$25 billion for testing. The CARES Act is posted on the website <https://www.congress.gov/116/bills/hr748/BILLS-116hr748enr.pdf>

Universities Seek Additional \$46.6 Billion Funding Congress: The American Council on Education and 40 other groups urge that this sum be included in the next congressional spending package. It would be "equally divided between students and institutions" and allocated and distributed according to the same formula used in the Coronavirus Aid, Relief, and Economic Security (CARES) Act, ACE says. Schools

expect student need for financial aid to skyrocket, requiring an additional \$12 billion. They also project that "enrollment for the next academic year will drop by 15 percent, including a projected decline of 25 percent for international students, resulting in a revenue loss for institutions of \$23 billion." The Association of Public and Land Grant Universities says in a letter: "Many institutions are providing significant refunds of expenses such as on-campus housing and meal plans. At the same time, institutions are incurring additional costs to move instruction online." The new requested sum would be in addition to the \$14 billion that higher education received in the CARES Act. The [letter](#) to lawmakers requests:

- \$47 billion in emergency funding for students and institutions through the funds disbursement mechanism set up in the CARES Act;
- Extending institutions' access to low- or zero-interest loans, existing tax credits to offset paid leave and for employee retention, and other tax measures to support institutions and students;
- \$26 billion for supplemental funding for federal research agencies to sustain the research workforce until campus operations return to full speed. This includes support for graduate students, postdocs, early career researchers, principal investigators, and technical support research staff;
- Temporary regulatory flexibility across federal agencies to allow institutions to focus precious resources on their response to the spread of COVID-19. Similarly, APLU requests agencies suspend regulatory proposals that would impose substantial new burdens on colleges and universities at this time.
- \$80 million for the Cooperative Extension System to strengthen its capacity to support communities during the crisis.

More information and letter is posted on the APLU website <https://www.aplu.org/news-and-media/News/aplu-urges-congress-to-provide-additional-emergency-aid-for-students-universities-and-research>

NSF RAPID Funding on Coronavirus Disease 2019 (COVID-19): In light of the emergence and spread of the coronavirus disease 2019 (COVID-19) in the United States and abroad, the National Science Foundation (NSF) is accepting proposals to conduct non-medical, non-clinical-care research that can be used immediately to explore how to model and understand the spread of COVID-19, to inform and educate about the science of virus transmission and prevention, and to encourage the development of processes and actions to address this global challenge. NSF encourages the research community to respond to this challenge through [existing funding opportunities](#). In addition, we invite researchers to use the Rapid Response Research (RAPID) funding mechanism, which allows NSF to receive and review proposals having a severe urgency with regard to availability of or access to data, facilities or specialized equipment as well as quick-response research on natural or anthropogenic disasters and similar unanticipated events. Requests for RAPID proposals may be for up to \$200K and up to one year in duration. Well-justified proposals that exceed these limits may be entertained. All questions should be directed either to a program officer managing an NSF program with which the research would be aligned or to rapid-covid19@nsf.gov. See the Dear Colleague Letter NSF 20-052: Dear Colleague Letter on the Coronavirus Disease 2019 (COVID-19) <https://www.nsf.gov/pubs/2020/nsf20052/nsf20052.jsp>

Webinar and Events

Event: Open Forum Q&A on COVID-19 Impacts to Campuses

Sponsor: Council on Government Relations (COGR)

When: May 1, 2020 3:00 PM – 4:00 PM (ET)

Website: <https://www.cogr.edu/cogrs-webinar-series-covid-19>

Brief Description: Please ensure you are registering from your work email address (i.e. .edu or .org domain). For any registration questions, please contact Toni Russo at trusso@cogr.edu
To Join the Webinar: Please register at https://zoom.us/webinar/register/WN_kjqwbGyWT_qm4o5Pvsra7w

Event: Gen-4 Engineering Research Center Webinar

When: April 29, 2020 1:00 PM – 3.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=300422&org=NSF

Brief Description: The [NSF Engineering Research Centers \(ERC\) program](#) in the Division of Engineering Education and Centers will hold a webinar to review the Gen-4 ERC solicitation (NSF 20-553) and to address questions from potential ERC principal investigators.

The webinar will begin at 1:00PM Eastern on Wednesday, April 29, 2020.

Interested participants are invited to send questions ahead of time to NSFERC@nsf.gov.

See the [webinar slides](#); other webinar materials will be available here following the event.

To Join the Webinar: Register in advance for the Zoom webinar at https://nsf.zoomgov.com/webinar/register/WN_vmyW9AQJRfqaJiV2ilgqZQ

Event: NSF Distinguished Lecture Series in Mathematical and Physical Sciences for 2019-20

Sponsor: NSF

When: Various; Please see below.

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=299152&org=NSF

Brief Description: These lectures will be held at the National Science Foundation, 2415 Eisenhower Ave., Alexandria, VA 22314. Advance sign-up requests are required for preparation of visitor passes by emailing the contact below. Guidelines for visiting NSF are at <https://www.nsf.gov/about/visit/>

May 4, 2020 2:00 PM to May 4, 2020 3:00 PM

June 11, 2020 2:00 PM to June 11, 2020 3:00 PM

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

Grant Opportunities

National Science Foundation

Grant Program: Coastlines and People (CoPe)

Agency: National Science Foundation NSF 20-567

RFP Website:

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505772&org=NSF&sel_org=NSF&from=fund

Brief Description: Scientific research into complex coastal systems and the interplay with coastal hazards is vital for predicting, responding to and mitigating threats in these regions. Understanding the risks associated with coastal hazards requires a holistic Earth Systems approach that integrates improved understanding of and, where possible, predictions about natural, social, and technological processes with efforts to increase the resilience of coastal systems. The Coastlines and People program supports diverse, innovative, multi-institution awards that are focused on critically important coastlines and people research that is integrated with broadening participation goals. The objective of this solicitation is to support Coastal Research Hubs, structured using a convergent science approach, at the nexus between coastal sustainability, human dimensions, and coastal processes to transform understanding of interactions among natural, human-built, and social systems in coastal, populated environments.

NSF's mission calls for the broadening of opportunities and expanding participation of groups, institutions, and geographic regions that are underrepresented in STEM disciplines, which is essential to the health and vitality of science and engineering. Consistent with this principle of diversity and particularly suitable for the thrust of this program, NSF and Amazon encourage proposals (either independently or in multi-institution collaborations) from investigators at institutions that serve groups historically underrepresented in STEM disciplines.

Awards: Standard or continuing grants

Letters of Intent: August 10, 2020

Proposal Submission Deadline: September 9, 2020

Contacts: CoPe Working Group nsfcope@nsf.gov (703) 292-4708

Grant Program: NSF Program on Fairness in Artificial Intelligence in Collaboration with Amazon (FAI)

Agency: National Science Foundation NSF 20-566

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20566/nsf20566.htm>

Brief Description: NSF and Amazon are partnering to jointly support computational research focused on fairness in AI, with the goal of contributing to trustworthy AI systems that are readily accepted and deployed to tackle grand challenges facing society. Specific topics of interest include, but are not limited to transparency, explainability, accountability, potential adverse biases and effects, mitigation strategies, algorithmic advances, fairness objectives, validation of fairness, and advances in broad accessibility and utility. Funded projects will enable broadened acceptance of AI systems, helping the U.S. further capitalize on the potential of AI technologies. Although Amazon provides partial funding for this program, it will not play a role in the selection of proposals for award.

Advancing AI is a highly interdisciplinary endeavor drawing on fields such as computer science, information science, engineering, statistics, mathematics, cognitive science, and psychology. As such, NSF and Amazon expect these varied perspectives to be critical for the study of fairness in AI. NSF's ability to bring together multiple scientific disciplines uniquely positions the agency in this collaboration, while building AI that is fair and unbiased is an important aspect of Amazon's AI initiatives. This program supports the conduct of fundamental computer science research into theories, techniques, and methodologies that go well beyond today's capabilities and are motivated by challenges and requirements in real systems.

NSF's mission calls for the broadening of opportunities and expanding participation of groups, institutions, and geographic regions that are underrepresented in STEM disciplines, which is essential to the health and vitality of science and engineering. Consistent with this principle of diversity and particularly suitable for the thrust of this program, NSF and Amazon encourage proposals (either independently or in multi-institution collaborations) from investigators at institutions that serve groups historically underrepresented in STEM disciplines.

Awards: Standard or continuing grants; Anticipated Funding Amount: \$7,600,000

Award Size: \$750,000 up to a maximum of \$1,250,000 for periods of up to 3 years.

Letters of Intent: Not Required

Proposal Submission Deadline: July 13, 2020

Contacts: Todd Leen, Program Director, CISE/IIS, telephone: (703) 292-8930, email: tleen@nsf.gov

- Sylvia Spengler, Program Director, CISE/IIS, telephone: (703) 292-8930, email: sspengle@nsf.gov
 - Steven Breckler, Program Director, SBE/BCS, telephone: (703) 292-7369, email: sbreckle@nsf.gov
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Grant Program: NSF Convergence Accelerator Phase I and II**Agency: National Science Foundation NSF 20-565****RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20565/nsf20565.htm>

Brief Description: The goals of NSF's convergence accelerator effort are to support and accelerate use-inspired convergence research in areas of national importance within particular topics (tracks). NSF Convergence Accelerator tracks can be related to [Industries of the Future \(IoTf\)](#), [NSF's Big Ideas](#), or other topics, that may not relate directly to an IoTf or Big Idea, however, they must have the potential for significant national impact. The 2020 NSF Convergence Accelerator is a two-phase program. Both phases are described in this solicitation. Phase I awardees receive significant resources to further develop their convergence research ideas and identify crucial partnerships and resources to accelerate their projects, leading to deliverable research prototypes in Phase II. This solicitation invites proposals for the following Tracks:

Quantum Technology (Track C)**AI-Driven Innovation via Data and Model Sharing (Track D)**

The NSF Convergence Accelerator leverages fundamental research leading to rapid advances that can deliver significant societal impact. Proposers must first submit a Phase I preliminary proposal in order to be invited to submit a full Phase I proposal. The information required in the preliminary proposal is described in section V.

Phase I proposals must describe a team, or a process to build a team, that includes personnel with the appropriate mix of disciplinary and institutional expertise needed to build a Phase II convergence research effort. Phase I proposals must describe one or more deliverables and how those research outputs could impact society by the end of Phase II. Phase I proposals should describe the deliverable and the research plan and team formation efforts that will refine it to a proof-of-concept. Phase I will include NSF-organized convenings for training and intra- and cross-cohort collaboration. Phase I awards are expected to be for up to 9 months and up to \$1M each.

Only awardees of Phase I grants under this solicitation may submit a Phase II proposal. Phase II proposers must outline a two-year research and development plan in which research transitions to practice through collaboration with end-users.

Phase II proposals must describe clear deliverables that will be produced in two years of effort and the metrics by which impacts will be assessed. The Phase II teams must include appropriate stakeholders (e.g., industry, Institutions of Higher Education (IHEs), non-profits, government entities, and others), each with a specific role(s) in facilitating the transition of research outputs into practical uses. Successful proposals will be funded initially for one year. Each team's progress will be assessed during the year through approximately six virtual and in-person meetings with NSF program staff. The overall progress will be evaluated at the end of one year, based on a report and presentation that the team will make to a panel of reviewers. Teams that show significant progress during the first year, in accordance with the agreed timetable of milestones and deliverables, will receive funding for a second year. Teams should plan on completing the effort within two years; no-cost extensions will be authorized only in extraordinary circumstances.

Awards: Standard grants or Cooperative Agreement; Anticipated Funding Amount: \$30,000,000

Letters of Intent: Not Required

Proposal Submission Deadline:

Preliminary Proposal: May 11, 2020: Phase I Preliminary Proposal

Full Proposal Deadline(s) (due by 5 p.m. submitter's local time): July 10, 2020; Phase I Full Proposals, by invitation only

May 17, 2021; Phase II Full Proposals, only Phase I awardees are eligible

Contacts: Linda Molnar, telephone: (703) 292-8316, email: lmolnar@nsf.gov

- Lara A. Campbell, telephone: (703) 292-7049, email: lcampbel@nsf.gov
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Grant Program: Cybersecurity Education in the Age of Artificial Intelligence

Agency: National Science Foundation Dear Colleague Letter NSF 20-072

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20564/nsf20564.htm>

Brief Description: The National Science Foundation (NSF) is announcing its intention to fund a small number of Early Concept Grants for Exploratory Research (EAGER) to encourage advances in cybersecurity education, an area supported by the Foundation's Secure and Trustworthy Cyberspace Education Designation (SaTC-EDU), CyberCorps®: Scholarships for Service, and Advanced Technological Education (ATE) programs. EAGER is a mechanism to support exploratory work, in its early stages, on untested but potentially transformative research ideas or approaches. This work may be considered especially "high risk – high payoff" in the sense that it, for example, involves radically different approaches, applies new expertise, or engages novel disciplinary or interdisciplinary perspectives.

Awards: Standard EAGER grants

EAGER is a funding mechanism for supporting exploratory work, in its early stages, on untested but potentially transformative research ideas or approaches. Thus, proposals responsive to this DCL must include a section stating their appropriateness for an EAGER award (for instance, proposals submitted in response to this DCL may be "high-risk, high-reward" by way of involving radically different approaches, applying new expertise, or engaging novel disciplinary or interdisciplinary perspectives). EAGER proposals may request up to \$300,000 over two years.

Letters of Intent: See below about Step-1 submission

Proposal Submission Deadline:

Responses to this DCL will be handled as a two-step process:

Step 1: Teams are required to send a research concept outline, including project title, team members, institutions involved, and a summary of the project concept (up to two pages) by email to satc-edu@nsf.gov. Two rounds of submissions are available with the deadline for the first round at midnight EDT on **May 15, 2020**, and for the second round at midnight EDT on **August 31, 2020**. To ensure proper processing, please begin the proposal title as well as the subject line of your initial email with: "**EAGER: SaTC AI-Cybersecurity**". NSF Program directors will review these research concept outlines and will invite the authors of those of most interest to submit full EAGER proposals.

Step 2: Those who have been invited will submit their EAGER proposal for review. Submissions received without an invitation from an NSF program director will be returned without review.

Contacts: Please contact the following SaTC program directors with any questions regarding this DCL - Li Yang, James Joshi, and Nigamanth Sridhar - at satc-edu@nsf.gov.

Grant Program: Opportunities for Promoting Understanding through Synthesis (OPUS)

Agency: National Science Foundation NSF 20-564

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20564/nsf20564.htm>

Brief Description: The OPUS program provides an opportunity for an individual or a group of investigators to revisit and synthesize a significant body of their prior research or data they have previously collected to enable new understanding. This program is appropriate for scientists at any career stage and for any synthetic activities that aim to produce unique, integrated insight useful to the scientific community, now and in the future.

All four clusters within the Division of Environmental Biology (Ecosystem Science, Evolutionary Processes, Population and Community Ecology, and Systematics and Biodiversity Science) encourage the submission of OPUS proposals.

Awards: Standard grants; Anticipated Funding Amount: \$1,000,000 to \$3,000,000

Letters of Intent: Not Required

Proposal Submission Deadline: August 03, 2020

Contacts: Leslie J. Rissler, telephone: (703) 292-4628, email: lrissler@nsf.gov

- Daniel S. Gruner, telephone: (703) 292-7946, email: dgruner@nsf.gov
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Grant Program: Cyber-Physical Systems (CPS)

Agency: National Science Foundation NSF 20-563

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20563/nsf20563.htm>

Brief Description: Cyber-physical systems (CPS) are engineered systems that are built from, and depend upon, the seamless integration of computation and physical components. Advances in CPS will enable capability, adaptability, scalability, resiliency, safety, security, and usability that will expand the horizons of these critical systems. CPS technologies are transforming the way people interact with engineered systems, just as the Internet has transformed the way people interact with information. New, smart CPS drive innovation and competition in a range of application domains including agriculture, aeronautics, building design, civil infrastructure, energy, environmental quality, healthcare and personalized medicine, manufacturing, and transportation. CPS are becoming data-rich enabling new and higher degrees of automation and autonomy. Traditional ideas in CPS research are being challenged by new concepts emerging from artificial intelligence and machine learning. The integration of artificial intelligence with CPS especially for real-time operation creates new research opportunities with major societal implications.

The CPS program aims to develop the core research needed to engineer these complex CPS, some of which may also require dependable, high-confidence, or provable behaviors. Core research areas of the program include control, data analytics, and machine learning—including real-time learning for control, autonomy, design, Internet of Things (IoT), mixed initiatives including human-in- or human-on-the-loop, networking, privacy, real-time systems, safety, security, and verification. By abstracting from the particulars of specific systems and application domains, the CPS program seeks to reveal cross-cutting, fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application domains. The program additionally supports the development of methods, tools, and hardware and software components based upon these cross-cutting principles, along with validation of the principles via prototypes and testbeds. This program also fosters a research community that is committed to advancing education and outreach in CPS and accelerating the transition of CPS research into the real world.

Awards: Standard grants or Cooperative Agreement; Anticipated Funding Amount: \$17,000,000

Letters of Intent: Not Required

Proposal Submission Deadline:

- December 02, 2020 Frontier proposals

Submission Window Date(s) (due by 5 p.m. submitter's local time):

June 08, 2020 - June 22, 2020; Medium Proposals

Contacts: David Corman, Program Director CISE/CNS, telephone: (703) 292-8754, email: dcorman@nsf.gov;

Sandip Roy, Program Director CISE/CNS, telephone: (703) 292-8950, email: saroy@nsf.gov

Ralph Wachter, Program Director, CISE/CNS, telephone: (703) 292-8950, email: rwachter@nsf.gov

Grant Program: Civic Innovation Challenge**Agency: National Science Foundation NSF 20-562****RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20562/nsf20562.htm>

Brief Description: The Civic Innovation Challenge (CIVIC) is a research and action competition in the Smart and Connected Communities (S&CC) domain designed to build a more cohesive research-to-innovation pipeline and foster a collaborative spirit. Building on the NSF S&CC program and the extensive S&CC ecosystem, CIVIC aims to accelerate the impact of S&CC research, and deepen cooperation and information sharing across sectors and regions. CIVIC will lay a foundation for a broader and more fluid exchange of research interests and civic priorities that will create new instances of collaboration and introduce new areas of technical and social scientific discovery. CIVIC will fund projects that can produce significant community impact within 12 months (following a four-month planning phase) — in contrast to many community-university partnerships that take years to provide tangible benefits to communities — and have the potential for lasting impact beyond the period of the CIVIC award.

CIVIC introduces several unique features that differentiate it from the NSF S&CC program: (1) CIVIC flips the community-university dynamic, asking *communities* to identify civic priorities ripe for innovation and then to partner with researchers to address those priorities; (2) CIVIC focuses on research that is ready for piloting in and with communities on a short timescale, where real-world impact can be evaluated within 12 months; (3) CIVIC requires the inclusion of civic partners in the core project team, to emphasize civic engagement; and (4) CIVIC organizes and fosters “communities of practice” around high-need problem areas that allow for meaningful knowledge sharing and cross-site collaboration during both pre-development and piloting. **For purposes of clarity, civic partners may include local, state, or tribal government officials; non-profit representatives; community organizers or advocates; community service providers; and/or others working to improve their communities.**

CIVIC is organized as a two-stage competition with two tracks centered around the following topic areas:

- Track A. Communities and Mobility: *Offering Better Mobility Options to Solve the Spatial Mismatch Between Housing Affordability and Jobs*; and
- Track B. Resilience to Natural Disasters: *Equipping Communities for Greater Preparedness and Resilience to Natural Disasters*.

Awards: Standard grants; Anticipated Funding Amount: \$9,000,000

In the first stage (Stage 1), up to 12 awards per track will be made for Planning Grants – each with a budget of up to \$50,000 for four months to undertake pre-development activities, including solidifying the team, maturing the project plans, and preparing to submit a well-developed full proposal for Stage 2. Only awardees of Stage 1 will be eligible to submit proposals for Stage 2.

In the second stage (Stage 2), up to four teams per track will be selected from Stage 1 award recipients to receive a full award — each with a budget of up to \$1,000,000 for up to 12 months to execute and evaluate their research-centered pilot projects.

Letters of Intent: Not Required

Proposal Submission Deadline: July 01, 2020 Stage 1; March 31, 2021 Stage 2

Contacts: David Corman, Program Director, CISE/CNS, telephone: (703) 292-8754, email: dcorman@nsf.gov;

Linda Bushnell, Program Director, CISE/CNS, telephone: (703) 292-8950, email: lbushnel@nsf.gov;

Sandip Roy, Program Director, CISE/CNS, telephone: (703) 292-7096, email: saroy@nsf.gov

Grant Program: Disrupting Operations of Illicit Supply Networks (D-ISN)**Agency: National Science Foundation NSF 20-561**

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20561/nsf20561.htm>

Brief Description: Major goals of NSF's D-ISN include:

- *Improve understanding of the operations of illicit supply networks and strengthen the ability to detect, disrupt, and dismantle them.*
- *Enhance research communities that effectively integrate operational, computational, social, cultural and economic expertise to provide methods and strategies to combat this complex and elusive global security challenge.*
- *Catalyze game-changing technological innovations that can improve discovery and traceability of illicitly sourced products and illicitly sourced labor inputs to products.*
- *Provide research outcomes that inform U.S. national security, law enforcement and economic development needs and policies.*

This solicitation is the first of what is envisioned to be a three-year program, based on availability of funds, to support the research needed to inform the economy, security, and resilience of the Nation and the world in responding to the global threat posed by illicit supply networks. The solicitation calls for fundamental research across engineering, computer and information science, and social science with two proposal submission tracks. Track 1 research proposals should address at least one or more of the five focus domain areas listed below. Under Track 2, D-ISN calls for proposals for planning grants to support activities leading to convergence research team formation and capacity-building within the research communities interested in addressing larger-scope challenges in the future.

Awards: Standard grants or Cooperative Agreement; Anticipated Funding Amount: \$10,000,000

Letters of Intent: July 01, 2020

Proposal Submission Deadline: Proposals Accepted Anytime

Contacts: Georgia-Ann Klutke, telephone: (703) 292-2443, email: d-isn@nsf.gov

- Yueyue Fan, telephone: (703) 292-4453, email: d-isn@nsf.gov
- Mark S. Hurwitz, telephone: (703) 292-5366, email: d-isn@nsf.gov

Grant Program: Hydrologic Sciences (HS)

Agency: National Science Foundation NSF 20-560

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20560/nsf20560.htm>

Brief Description: The Hydrologic Sciences Program supports basic research on the fluxes of water in the terrestrial environment that constitute the water cycle as well as the mass and energy transport function of the water cycle. The Program supports the study of processes including (but not limited to): rainfall, runoff, infiltration and streamflow; evaporation and transpiration; the flow of water in soils and aquifers; and the transport of suspended, dissolved, and colloidal components. The Program is interested in how water interacts with the landscape and the ecosystem as well as how the water cycle and its coupled processes are altered by land use and climate. Studies may address physical, chemical, and/or biological processes that are coupled directly to water transport. Observational, experimental, theoretical, modeling, synthesis and field approaches are supported. Projects submitted to Hydrologic Sciences commonly involve expertise from physical and ecosystem sciences, engineering and/or mathematics; and proposals may require joint review with related programs.

Awards: Standard grants or Cooperative Agreement; Anticipated Funding Amount: \$10,000,000

Letters of Intent: Not Required

Proposal Submission Deadline: Proposals Accepted Anytime

Contacts: Laura Lautz, E 8481, telephone: (703) 292-7775, email: llautz@nsf.gov

Ingrid Padilla, E 8339, telephone: (703) 292-2268, email: ipadilla@nsf.gov

Justin Lawrence, E 8483, telephone: (703) 292-2425, email: jlawrenc@nsf.gov

Grant Program: PFE: Research Initiation in Engineering Formation (PFE: RIEF)

Agency: National Science Foundation NSF 20-558

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20558/nsf20558.htm>

Brief Description: The PFE: Research Initiation in Engineering Formation (PFE: RIEF) program has two goals: 1) Support research in the Professional Formation of Engineers (PFE), and 2) Increase the community of researchers conducting PFE research. PIs are expected to have little or no experience conducting social science or education research. PFE: RIEF is not intended for established researchers in engineering education or other social science fields to initiate new projects. Those researchers should consider the Research in the Formation of Engineers program (https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505681).

The NSF Engineering (ENG) Directorate has launched a multi-year initiative, the Professional Formation of Engineers, to create and support an innovative and inclusive engineering profession for the 21st Century. Professional Formation of Engineers (PFE) refers to the formal and informal education and value systems by which people become engineers. It also includes the ethical responsibility of practicing engineers to sustain and grow the profession. The engineering profession must be responsive to national priorities, grand challenges, and dynamic workforce needs; it must be equally open and accessible to all. Engineering faculty possess both deep technical expertise in their engineering discipline and the primary responsibility for the process of professional formation of future engineers. As such, engineering faculty are in a unique position to help address critical challenges in engineering formation. The Professional Formation of Engineers: Research Initiation in Engineering Formation (PFE: RIEF) program enables engineering faculty who are renowned for teaching, mentoring, or leading educational reform efforts on their campus to develop expertise in conducting engineering education research.

Awards: Standard grants; Anticipated Funding Amount: \$3,000,000

Letters of Intent: Not Required

Proposal Submission Deadline: November 10, 2020

Contacts: Edward J. Berger, telephone: (703) 292-7708, email: eberger@nsf.gov

National Institutes of Health

Grant Program: Institutional Development Award (IDeA) Networks for Clinical and Translational Research (IDeA-CTR) (U54 Clinical Trial Optional)

Agency: National Institutes of Health PAR-20-175

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-20-175.html>

Brief Description: An IDeA-CTR is expected to be a statewide or interstate regional network that supports the development and/or enhancement of infrastructure and human resources required for clinical and translational research, organizes and leads clinical and translational research activities that help address the broad spectrum of health challenges faced by the population in the state(s), and fosters and coordinates collaboration in clinical and translational research. Only one IDeA-CTR award can be made per eligible IDeA state. In keeping with the objective that these awards address broad health concerns, applications with narrow disease or population focus will not be funded.

The objectives of the IDeA-CTR initiative are the following:

- To support the development and/or enhancement of infrastructure and human resources required to address clinical and translational research needs in IDeA-eligible states.
- To strengthen clinical and translational research that addresses the broad spectrum of health challenges faced by populations in IDeA-eligible states/jurisdictions.

- To foster and coordinate collaboration in clinical and translational research within an IDeA-CTR network and with other institutions.

For the purposes of this initiative, the following definitions apply:

- "Clinical research" comprises studies and trials in human subjects as defined by NIH Regulations and Policies (<https://grants.nih.gov/grants/glossary.htm#ClinicalResearch>).
- "Translational research" includes research that aims to convert basic research advances to practical applications in humans, and research aimed at the adoption of best practices in community healthcare.

Awards: The application may request up to \$4,000,000 per year in total costs. This FOA provides an additional one-time cost of up to \$300,000 in direct costs in year one for Alterations and Renovations.

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

Deadline: October 7, 2020; October 7, 2021, and October 7, 2022

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.

Grant Program: National Centers for Biomedical Imaging and Bioengineering (NCBIB) (P41 Clinical Trials Optional)

Agency: National Institutes of Health PAR-20-169

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-20-169.html>

Brief Description: The National Institute of Biomedical Imaging and Bioengineering (NIBIB) uses the P41 mechanism to support National Centers for Biomedical Imaging and Bioengineering (NCBIB) to accelerate the development and dissemination of new biomedical technology. It is expected that each Center would have a nationwide impact. NCBIB create critical and unique technologies that are at the forefront of their respective fields and apply these technologies to a broad range of basic, translational, and/or clinical research. Information on current NCBIB can be found at <https://www.nibib.nih.gov/research-funding/featured-programs/ncbib/supported-centers>

A Center assembles a critical mass of both technological and other intellectual resources with the intent of advancing the development of instrumentation and methodology for biomedical research. NCBIB may develop new technologies for use in biomedical research or clinical application(s). This is accomplished through a synergistic interaction of technical and biomedical expertise, both within the Center and with other laboratories outside of the Center.

The central components of each Center are the Technology Research and Development (TR&D) projects. These projects serve as the foundation of all the activities within the Center. TR&D projects should be at the cutting edge of their technological field and develop new technology in response to the emerging needs of the biomedical research community. The TR&D components of a Center are scientifically distinct, but are not stand-alone projects, thus they should build on and strengthen the synergistic interactions within the Center.

NCBIB interact with Collaborative Projects (CPs) that serve as technology drivers, users, and testbeds for the cutting-edge technology developed in TR&D projects. Working in a push-pull, iterative relationship with CPs, a TR&D project should develop and optimize additional new tools and methods to address specific biomedical research problems that are otherwise difficult to address using existing tools and methods. The research needs of the CPs should drive the technology development in each TR&D project by presenting important technology-development challenges to the TR&D project. The new technologies developed in TR&D projects should advance the research efforts of the CPs.

NCBIB provide their technology to Service Projects (SPs) that serve as users of the well-developed and stable technologies of the Center. SPs make use of the technology and expertise of the Center but are not intended to serve as primary drivers for technology development.

Unless there are technological and/or clinical constraints that limit the distribution of the technology developed in the TR&D projects, the CPs and SPs should have a national geographic distribution. The national geographic distribution of the CPs and SPs in new Centers may be somewhat limited initially, but, as the Center matures, it is expected that there will be a broad national distribution.

A Center must provide training and dissemination with the goal exporting their technology and expertise into the broader community to achieve a wide impact on biomedical research. Training should be provided to researchers and end-users at various levels of clinical and scientific expertise including clinicians, scientists, graduate students, postdocs, and junior faculties. Another important aspect of a Center is dissemination of information on its newly developed technologies and methods. These training and dissemination efforts require the commitment of greater financial and personnel resources to non-science activities than is expected for other types of research efforts. Industrial partnerships are not required, but they are welcome when appropriate. An illustration of the interactions among the required components of a Center can be found at NIBIB's NCBIB website: <https://www.nibib.nih.gov/research-funding/national-centers-biomedical-imaging-and-bioengineering>

Awards: Direct costs (excluding equipment) are not limited and are expected to vary among applications. Typical direct costs for NCBIB range between \$600,000 and \$750,000. In addition, up to \$500,000 can be requested for special-purpose equipment for the duration of a five-year project period.

Letter of Intent: 12 weeks prior to the application due date

Deadline: [Standard dates](#) apply

The first standard application due date for this FOA is May 25, 2020.

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

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

Grant Program: Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grant (Parent T35)

Agency: National Institutes of Health PAR-20-162

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PA-20-162.html>

Brief Description: The objective of the Ruth L. Kirschstein National Research Service Award Short-Term Institutional Research Training Grant (T35) program is to develop and/or enhance research training opportunities for health professional students and for graduate students in the physical or quantitative sciences interested in careers in biomedical, behavioral, and clinical research that are relevant to the NIH mission. The T35 program provides short-term support for a period of at least 8, but no more than 12, weeks in a grant year for full-time training experiences under the supervision of experienced researchers. There is also increasing recognition of the need to enhance reproducibility of biomedical research results through scientific rigor and transparency. Trainees are exposed to individuals with active research careers and learn about further research training opportunities and research career options. The training program should be of sufficient depth to enable selected trainees, upon completion of the program, to have had sufficient exposure to the principles underlying the conduct of biomedical research. The proposed institutional research training program may complement other ongoing research training and career development programs at the applicant institution, but the proposed program must be clearly distinct from related programs currently receiving Federal support.

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

Letter of Intent: Not required

Deadline: [Standard dates](#) apply

The first standard application due date for this FOA is May 25, 2020.

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

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

Grant Program: BRAIN Initiative: Exploratory Team-Research BRAIN Circuit Programs - eTeamBCP (U01 Clinical Trials Optional)

Agency: National Institutes of Health RFA-NS-20-029

RFP Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-20-029.html>

Brief Description: This exploratory FOA will support the building of teams of experts that seek to cross boundaries of interdisciplinary collaboration by bridging fields and by linking theory, modeling, and/or data analysis to experimental design. Teams are expected to develop or adopt a conceptual or quantitative modeling framework, which incorporates theories about causal mechanisms of circuit functions, to drive experiments and build testable hypotheses. Innovative and mechanistic approaches to cross-cutting questions in neuroscience are expected; this FOA emphasizes the use of cutting-edge methods of activation, recording, and/or analysis to understand the behavior of circuits at cellular and sub-second levels of spatial and temporal resolution, that is, at the level of the functional units of circuits. Diverse species or experimental systems and a cross-species/comparative approach are welcome and should be chosen based on their power to address the specific question at hand and to reveal generalizable and fundamental principles.

Proposed exploratory studies should lead to subsequent, competing applications for support of team-research projects (e.g. Targeted BCP R01, TeamBCP U19) consistent with the BRAIN Initiative's goal to understand the circuits of the CNS, to measure the fluctuating patterns of electrical and chemical activity flowing within those circuits, and to understand how their interplay creates our advanced cognitive and behavioral capabilities.

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

Letter of Intent: June 14, 2020

Deadline: July 14, 2020 and June 15, 2021, by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on these dates.

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

Grant Program: NIH Science Education Partnership Award (SEPA) (R25 - Clinical Trial Not Allowed)

Agency: National Institutes of Health PAR-20-153

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-20-153.html>

Brief Description: The NIH Research Education Program (R25) supports research educational activities that complement other formal training programs in the mission areas of the NIH Institutes and Centers. The over-arching goals of the NIH R25 program are to: (1) complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs; (2) encourage individuals from diverse backgrounds, including those from groups underrepresented in the biomedical and behavioral sciences, to pursue further studies or careers in research; (3) help recruit individuals with specific specialty or disciplinary backgrounds to research careers in biomedical, behavioral and clinical

sciences; and (4) foster a better understanding of biomedical, behavioral and clinical research and its implications. The overarching goal of this R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs.

The SEPA program supports P-12 and informal science education (ISE) activities that: (1) enhance the diversity of the biomedical, behavioral and clinical research workforce and (2) foster a better understanding of NIH-funded biomedical, behavioral and clinical research and its public health implications. The SEPA program targets two primary audiences: (1) SEPA formal or classroom-based projects, provide STEM content, pedagogical expertise, and problem solving skills to teachers, students, and families in communities not generally supported by advanced and innovative educational practices; (2) SEPA informal science education (ISE) activities, conducted in outside-the-classroom venues as well as in science centers and museums, target both workforce diversity and improved public health literacy.

Awards: Direct costs are limited to \$250,000 annually.

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

Deadline: July 14, 2020; July 13, 2021; July 13, 2022 by 5:00 PM local time of applicant organization.

All [types of applications](#) allowed for this funding opportunity announcement are due on these dates.

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

Grant Program: Notice of Special Interest (NOSI) regarding the Availability of Urgent Competitive Revisions for Research on the 2019 Novel Coronavirus (2019-nCoV)

Agency: National Institutes of Health NOT-AI-20-030

RFP Website: <https://grants.nih.gov/grants/guide/notice-files/NOT-AI-20-030.html>

Brief Description: In order to rapidly improve our understanding and available control measures for 2019-nCoV, NIAID is encouraging the submission of applications for Competitive Revisions to active grants to address the following research areas of interest:

- Studies to identify optimal 2019-nCoV *in vitro* culture requirements and conditions;
- Development of reagents and assays for virus characterization;
- Studies to understand critical aspects of viral infection, replication, pathogenesis, and transmission;
- Studies to identify viral epitopes critical for binding neutralization;
- Studies to examine virus stability and persistence;
- Production of molecular clones of 2019-nCoV, reporter viruses and recombinant viral proteins;
- Development of animal models of 2019-nCoV infection suitable for screening vaccine and therapeutic candidates and/or pathogenesis studies;
- Studies on the evolution and emergence of 2019-nCoV viruses including the identification of factors that affect viral host-range and virulence;
- Virologic and serologic surveillance studies of the distribution and natural history of 2019-nCoV viruses in animal populations and in humans at the human/animal interface with particular emphasis on host reservoirs and understanding cross-species transmission events;
- Development of sensitive, specific, and rapid clinical diagnostic tests for 2019-nCoV;
- Development of 2019-nCoV therapeutic candidates; broad-spectrum therapeutics against multiple coronavirus strains; examination of 2019-nCoV antiviral activity of existing or candidate therapeutics initially developed for other indications;
- Identification and evaluation of the innate, cellular and humoral immune responses to 2019-nCoV infection and/or candidate vaccines, including, but not limited to: cross-reactive antibodies from individuals exposed to 2019-nCoV and other coronaviruses; viral epitopes critical for antibody

binding and neutralization; immune-mediated pathology or host factors that might predispose to severe infection; and

- Development of 2019-nCoV vaccine candidates that include emerging antigen design strategies, novel platforms or delivery approaches, adjuvants, or assessing cross-neutralization potential of SARS-CoV vaccine candidates.

Submission: Applications in response to this NOSI must be submitted using the following targeted funding opportunity:

- [PA-18-935](https://www.niaid.nih.gov/grants-contracts/urgent-award-mechanism) Urgent Competitive Revision to Existing NIH Grants and Cooperative Agreements (Urgent Supplement - Clinical Trial Optional), which is intended to provide funds for NIH grantees applying to expand the scope of their active grant. Further details can be found here: <https://www.niaid.nih.gov/grants-contracts/urgent-award-mechanism>.
- The funding instrument, or activity code, will be the same as the parent award.
- **Please note:** *NOT-AI-20-030 is specific for [PA-18-935](https://www.niaid.nih.gov/grants-contracts/urgent-award-mechanism). NIH grantees seeking additional funds for research responsive to the 2019-nCoV outbreak that falls within the scope of an ongoing grant should instead apply for an administrative supplement under NIH PA-18-591, [Administrative Supplements to Existing NIH Grants and Cooperative Agreements FOA](https://www.niaid.nih.gov/grants-contracts/urgent-award-mechanism) (<https://grants.nih.gov/grants/guide/pa-files/PA-18-591.html>).*

Grant Program: Partnerships for Countermeasures against Select Pathogens (R01 Clinical Trials Not Allowed)

Agency: National Institutes of Health RFA-AI-20-028

RFP Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-AI-20-028.html>

Brief Description: The objective of this FOA is to support milestone-driven preclinical research that will advance the development and/or production of lead candidate therapeutics or vaccines (or related products) for select Emerging Infectious Diseases/Pathogens described below. Each application must propose a research and development project whose goal is to advance an already identified lead candidate. Proposed projects are not required to result in a "final" product, nor is it necessary to propose completion of the product development process up to the point of readiness for clinical trials or validation within the time frame of the project. Applications that would significantly advance a candidate product toward clinical or field usefulness are responsive and encouraged. Required industrial participation on applications from academic institutions (see below) will facilitate appropriate and validated product development activities. Program Director(s)/Principal Investigator(s) (PD(s)/PI(s)) are strongly encouraged to obtain expertise in the areas of product development planning and target product profile development in general, and regulatory matters in particular. Expertise needed to fulfill project objectives may be retained as defined effort or may be included as periodic consultation on specific issues.

Awards: Recommended budget for direct costs of up to \$750,000 per year may be requested. Applicants may also request up to an additional \$300,000 in the first year of the award for major equipment to ensure that research objectives can be met and biohazards can be contained, totaling \$1,050,000 direct costs for Year 1 only.

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

Deadline: June 29, 2020

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

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

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

Grant Program: DoD Multiple Sclerosis, Investigator- Initiated Research Award

Agency: Department of Defense Dept. of the Army – USAMRAA W81XWH-20-MSRP-IIRA

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

Brief Description: The MSRP was initiated in 2009 to provide support for pioneering concepts and high-impact research that are relevant to the prevention, etiology, pathogenesis, assessment, and treatment of multiple sclerosis (MS) to ultimately lessen its personal and societal impact.

All applications submitted to the FY20 MSRP Investigator-Initiated Research Award (IIRA) Program Announcements must address at least one of the following Focus Areas:

Central Nervous System Regenerative Potential in Demyelinating Conditions

Correlates of Disease Activity and Progression in Multiple Sclerosis

Biology and Measurement of Multiple Sclerosis Symptoms

Factors Contributing to Multiple Sclerosis Etiology, Prodrome, Onset, and Evolution

Awards: The FY20 appropriation is \$16.0M.

Proposal Deadline: Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), June 17, 2020 •

Invitation to Submit an Application: July 2020 • Application Submission Deadline: 11:59 p.m. ET, October 1, 2020

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

Grant Program: Biological Technologies

Agency: Department of Defense DARPA - Biological Technologies Office HR001120S0044

Website: <https://beta.sam.gov/opp/4efd37762ed0475d871af927279f010d/view>

Brief Description: The mission of BTO is to foster, demonstrate, and transition breakthrough research, discoveries, and applications that integrate biology, engineering, computer science, mathematics, and the physical sciences. BTO's research investment portfolio includes combating pandemic disease, innovative physiological interventions, human performance and warfighter readiness, microbes as production platforms, and deep exploration of changing ecologies and environments on U.S. capabilities and resilience. BTO's programs operate across a wide range of scales, from individual cells to the warfighter to global ecosystems. BTO responds to the urgent and longterm needs of the Department of Defense (DoD) and addresses national security priorities. BTO is interested in submissions related to the following areas:

- Discovering and leveraging novel findings from biotechnology, biochemistry, molecular biology, neuroscience, psychology, cognitive science, and related disciplines to advance treatment and resilience in neurological health, transformative neural processing, and optimize human performance.
- Understanding and improving interfaces between the biological and physical world to enable seamless hybrid systems and revolutionary new human-machine interfaces.
- Designing novel materials, sensors, or processes that mimic or are inspired by biological systems.
- Leveraging and translating a biological system's underlying design rules, functional processes, and/or means of interactivity to provide insight into or control over complex biological systems from biofilms to organs.
- Developing new tools and capabilities for forward engineering of biological systems, such as cells, tissues, organs, organisms, and complex communities, to both develop new products and functional systems, as well as to gain new insights into underlying mechanisms.

Awards: Multiple awards are anticipated.

Proposal Deadline: Proposal Abstract Due Date and Time: Abstracts may be submitted on a rolling basis until 4:00 PM ET, April 22, 2021
o Full Proposal Due Date and Time: Proposals may be submitted on a rolling basis until 4:00 PM ET, April 22, 2021

Contact Information: BAA Coordinator BTOBAA2020@darpa.mil

Grant Program: Invisible Headlights (IH)

Agency: Department of Defense DARPA - Defense Sciences Office HR001120S0045

Website: <https://beta.sam.gov/opp/8271a213cf88440cbdf14347e2e5e7af/view>

Brief Description: The Invisible Headlights approach is fundamentally different than previous efforts aimed at target recognition using infrared emissions. Conventional infrared sensors fail, by design, to collect almost all available information from ambient thermal emissions. Under the Invisible Headlights approach, non-target artifacts in the scene which might previously have been considered “clutter” will instead provide the signal needed to enable 3D vision. Because the utility of this approach is limited to the information content available in real scenes, the Invisible Headlights program will quantify the available information in ambient thermal emissions, determine how much of that information is useful for building a 3D model of a scene, define the tradespace of sensor designs capable of gathering this information, develop new sensors capable of dramatically increased measurement diversity, and validate all of the above via testing in the field.

Awards: DARPA anticipates one or more awards in Technical Area 1 and one or more awards in Technical Area 2.

Proposal Deadline: Abstract Due Date: May 08, 2020, 4:00 p.m.

o FAQ Submission Deadline: June 03, 2020, 4:00 p.m.

o Full Proposal Due Date: June 17, 2020, 4:00 p.m.

Contact Information: BAA Coordinator InvisibleHeadlights@darpa.mil

Grant Program: CDMRP PRMRP Investigator-Initiated Research Award for Emerging Viral Diseases and Respiratory Health

Agency: Department of Defense W81XWH-20-PRMRP-IIRA-COV

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

<https://cdmrp.army.mil/funding/pa/FY20-PRMRP-IIRA-COV.pdf>

Brief Description: All applications for this Program Announcement must specifically address at least one of the following Focus Areas and must be of clear scientific merit and direct relevance to military health. If the proposed research does not specifically address at least one of these Focus Areas, the Government will administratively withdraw the application. The FY20 PRMRP Focus Areas for Emerging Viral Diseases and Respiratory Health are listed below.

Emerging Viral Diseases

- On demand identification, isolation, characterization and manufacturing of antibodies (monoclonal or polyclonal) from peripheral blood mononuclear cells (PBMCs) collected from patients with coronavirus disease 2019 (COVID-19).
- Development of a wearable sensor that provides real-time diagnostics that can be used as a point of care for emerging viral diseases to predict illness before onset of symptoms. The diagnostic platform should be applicable to COVID-19. Virus-specific markers that can identify viruses at the genus level can be included, with an emphasis on SARS-CoV-2, the virus that causes COVID-19.

- Surveillance and predictive modeling tools that leverage artificial intelligence approaches to predict outbreaks and epidemics and support strategies for mitigating the threat of COVID-19.
- Triage of care for COVID-19 patients requiring access to resource-intensive interventions.
- Research to understand novel molecular and biological mechanisms of COVID-19 health impacts (e.g., microbiome) and identification/validation of biochemical, physiological, or combined biomarkers for evaluating short- and long-term health impacts from COVID-19.
- Research to determine direct and indirect impacts of COVID-19 on military readiness and unit climate; interpersonal/family dynamics; behavioral and mental health issues such as depression, suicide, anxiety, and loneliness and other key risk factors such as substance abuse and risky health-related behaviors. The aim of such research should be to inform, develop, and test potential behavioral countermeasures (e.g., knowledge and information products, preparedness training, support resources, self-care and team-care recommendations) to mitigate negative impacts and maximize Service member and family readiness/resilience to stressors related to pandemics and disasters.

Respiratory Health

- Research on the etiology and prevention of acute respiratory distress syndrome (ARDS) caused by host responses to coronaviruses, particularly COVID-19. • Development of improved methods for assessing and treating lung injury due to coronaviruses, particularly COVID-19.
- Novel and/or innovative detection technologies or therapeutics to reduce the incidence and/or severity of ARDS and/or other lung injury secondary to coronaviruses, particularly COVID-19.
- Development of biomarker metrics to associate the long-term health outcomes of virus-induced ARDS with degradation of physiological and physical performance.
- Ventilation and Extracorporeal Life Support approaches and technologies to support lung function or airway management in response to COVID-19 that increase survivability and/or minimize care provider burden or exposure.
- Pharmacological and biologic interventions for COVID-19 induced complications, including ARDS and related sequelae.

Awards: The anticipated direct costs budgeted for the entire period of performance for an FY20 PRMRP Investigator-Initiated Research Award will not exceed \$1.6M. The anticipated direct costs budget for the entire period of performance for an FY20 PRMRP Investigator-Initiated Research Award with the Partnering PI Option will not exceed \$2.0M.

Proposal Deadline: Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), May 28, 2020 • Application Submission Deadline: 11:59 p.m. ET, June 12, 2020

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

Grant Program: UNITED STATES MILITARY ACADEMY Broad Agency Announcement

Agency: Department of Defense Dept. of the Army – Materiel Command W911NF-20-S-0008

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

<https://www.westpoint.edu/centers-and-research/academic-research-division/research-overview>

Brief Description: This BAA sets forth research areas of interest to the United States Military Academy. This BAA is issued under paragraph 6.102(d)(2) of the Federal Acquisition Regulation (FAR), which provides for the competitive selection of basic and applied research proposals, and 10 U.S.C. 2358, 10 U.S.C. 2371, and 10 U.S.C. 2371b, which provide the authorities for issuing awards under this announcement for basic and applied research. The definitions of basic and applied research may be found at 32 Code of Federal Regulations (CFR) 22.105.

The USMA BAA seeks proposals from institutions of higher education, nonprofit organizations, state and local governments, foreign organizations, foreign public entities, and for-profit organizations (i.e., large and small businesses) for research based on the following campaigns: Socio-Cultural; Information Technology; Ballistics, Weapons, and Protections; Energy and Sustainability; Materials, Measurements, and Facilities; Unmanned Systems and Space; Human Support Systems; and Artificial Intelligence, Machine Learning, and Quantum Technologies.

Proposals are sought for cutting-edge innovative research that could produce discoveries with a significant impact to enable new and improved Army technologies and related operational capabilities and related technologies. The specific research areas and topics of interest described in this document should be viewed as suggestive, rather than limiting.

Awards: Various

Proposal Deadline: Prospective applicants contemplating submission of a whitepaper or proposal are strongly encouraged to contact the appropriate Technical Point of Contact (TPOC). BAA closes on March 31, 2025

Contact Information: Brandon S Hill Contract-Grant Specialist Phone 919-541-5532
brandon.s.hill24.civ@mail.mil

Grant Program: Department of Defense (DoD) – Science, Technology, Engineering, and Mathematics (STEM) Educational Outreach Programs

Agency: Department of Defense Army Contracting Command - New Jersey W15QKN-20-R-0ANX

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

Brief Description: The Department of Defense (DoD) is the largest employer of scientists and engineers in the United States and employs nearly half (46%) of the scientists and engineers in the Federal government. Under the Federal STEM strategic plan, the Department is charged with developing STEM initiatives that are unique to the DoD mission and also help meet national goals of: improving instruction; increasing engagement; growing the pool of STEM degree holders; broadening the participation of historically underserved groups; and improving the graduate school experience. DoD STEM represents the Department's mission to attract, inspire, and develop exceptional STEM talent across the educational continuum to sustain the Department's technological edge. It is estimated that 80% of the jobs in the United States will require STEM skills in the next decade.

The Department of Defense (DoD) provides learning opportunities from elementary school through graduate school to inspire and cultivate a diverse pool of exceptional STEM talent. DoD programs connect STEM education in the classroom to the excitement, skills, and challenges that come with safeguarding the United States. For example, DoD STEM scholarships provide awards to students who have demonstrated ability and aptitude for excelling in STEM fields in disciplines of importance to DoD. DoD STEM internships allow high school and college students the opportunity to engage in hands-on research, solving real world problems at DoD laboratories and facilities

The objective of this FOA, which is being issued in accordance with 10 USC §2192, is to seek application packages from Applicants capable of engaging and improving Grades K-12 Plus (to include colleges, universities, and vocational schools) STEM skills through outreach programs and support services on a national level. The requirement for increased STEM professional development is necessary to meet the long term national defense needs of the United States for personnel proficient in such skills.

Awards: The Government desires to issue one (1) new federal award in the form of a Grant for a period of performance not to exceed five (5) years. Applications for renewal or supplementation of existing projects are not eligible to compete with applications for new Federal awards. It is anticipated any awarded Grant will be executed on or about 28 July 2020. Estimated available funding: \$25,000,000

Proposal Deadline: May 18, 2020

Contact Information:

Grants Officer: Morgan F. Ziatyk CCNJ, Emerging Technologies Division (CCNJ-ET)

morgan.f.ziatyk.civ@mail.mil

Grants Specialists: David Grimes CCNJ, Emerging Technologies Division (CCNJ-ET)

david.m.grimes.civ@mail.mil

Edward Gorsky CCNJ, Emerging Technologies Division (CCNJ-ET) Edward.A.Gorsky.civ@mail.mil

Grant Program: Newton Award for Transformative Ideas during the COVID-19 Pandemic

Agency: Department of Defense BRO-20-NEWTON

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

Brief Description: This award will be presented to a single investigator or team of up to two investigators that develops a “transformative idea” to resolve challenges, advance frontiers, and set new paradigms in areas of immense potential benefit to DoD and the nation at large. Proposals should aim to produce novel conceptual frameworks or theory-based approaches that present disruptive ways of thinking about fundamental scientific problems that have evaded resolution, propose new, paradigm-shifting scientific directions, and/or address fundamental and important questions that are argued to be undervalued by the scientific community. Approaches can include analytical reasoning, calculations, simulations, and thought experiments. While data collection and production are therefore allowed, all supporting data should be generated without the use of laboratory-based experimentation or instrumentation. Given the novelty of and circumstances surrounding this one-time Funding Opportunity Announcement (FOA), the objective of this program is to generate proposals that are equally novel and pioneering. Therefore, this FOA should be viewed as an opportunity to propose work outside the bounds of traditional proposals.

Awards: Up to \$50k (Single investigator) and \$100k (Two Investigators)

Proposal Deadline: May 15, 2020

Contact Information: Jonathan Becker, Grants Officer, jonathan.l.becker2.civ@mail.mil

Grant Program: DoD Peer Reviewed Cancer Research, Idea Award

Companion: DoD Peer Reviewed Cancer Research, Translational Team Science Award

Agency: Department of Defense Dept. of the Army – USAMRAA W81XWH-20-PRCRP-IA

Website: <https://cdmrp.army.mil/funding/scirp>

Brief Description: To be considered for funding, applications for the FY20 PRCRP Idea Award must address at least one of the FY20 PRCRP Topic Areas as directed by Congress. Congressional language for the FY20 PRCRP provides funds for research into cancers not addressed in the breast, kidney, lung, pancreatic, prostate, ovarian, rare cancer, and melanoma research programs. Research applications in the areas of breast, kidney, lung (excluding mesothelioma), prostate, pancreatic, rare cancer, ovarian cancer, or melanoma will not be accepted. The inclusion of the individual Rare Cancer Research Program shall not prohibit the PRCRP from funding the below mentioned cancers or cancer subtypes that may be rare by definition.

Awards: Various; Estimated available funding: \$28,000,000

Proposal Deadline:

Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), May 14, 2020 • Invitation to

Submit an Application: June 16, 2020 • Application Submission Deadline: 11:59 p.m. ET, August 27, 2020

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

**Grant Program: DoD Spinal Cord Injury, Investigator- Initiated Research Award
DoD Spinal Cord Injury, Translational Research Award**

Agency: Department of Defense W81XWH-20-SCIRP-IIRA

Website: <https://cdmrp.army.mil/funding/scirp>

Brief Description: To meet the intent of the award mechanism, applications must address at least one of the FY20 SCIRP IIRA Focus Areas listed below. Applications may address more than one Focus Area. In particular, applications combining biomarker studies with studies in one or more of the other FY20 SCIRP Focus Areas is encouraged. Applications using clinically relevant combinations of interventions within or across Focus Areas are also encouraged. The FY20 SCIRP IIRA Focus Areas are: • Preserving and protecting spinal cord tissue at time of injury for improved neurologic outcomes: ○ Responsive projects may include surgical and acute care management of SCI. ○ Early therapeutics (devices and pharmacologic interventions) to stabilize SCI in the prehospital environment and during transport are encouraged. ○ Applications proposing neuroprotective interventions need to demonstrate a clinically feasible window for treatment and more than an incremental improvement over existing therapies. • Identifying and validating biomarkers for diagnosis, prognosis, and for evaluation of treatment efficacies: ○ Biomarkers must focus on diagnosis, prognosis, progression, and/or recovery of SCI. ○ Projects with a clear link between a biomarker and underlying physiology are encouraged. Projects can include imaging and other modalities. ○ Applications should demonstrate a clear path to clinical use. ○ Biomarker studies directed at identifying the best single or combination of treatments for individuals (personalized medicine) are encouraged. ○ Ancillary studies with existing clinical trials are allowed and encouraged.

Awards: The anticipated direct costs budgeted for the entire period of performance for an FY20 SCIRP Investigator-Initiated Research award will not exceed \$500,000.

Proposal Deadline:

Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), May 21, 2020 • Invitation to Submit an Application: June 30, 2020 • Application Submission Deadline: 11:59 p.m. ET, August 25, 2020

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

Grant Program: Air Force Fiscal Year 2021 Young Investigator Research Program (YIP)

Agency: Department of Defense Air Force Office of Scientific Research

FOA-AFRL-AFOSR-2020-0003

Website: <https://www.wpafb.af.mil/Welcome/Fact-Sheets/Display/Article/842050/>

Brief Description: The Air Force YIP supports scientists and engineers who have received Ph.D. or equivalent degrees within the last seven years and show exceptional ability and promise for conducting basic research. The objectives of this program are:

1. to foster creative basic research in science and engineering;
2. enhance early career development of outstanding young investigators;
3. and increase opportunities for the young investigator to recognize the Air Force mission and related challenges in science and engineering.

Eligibility: Individual awards are made to U.S. institutions of higher education, industrial laboratories, or non-profit research organizations where the principal investigator (PI) is employed on a full-time basis and holds a regular position. YIP PIs must be a U.S. citizen, national, or permanent resident. Researchers working at a Federally Funded Research and Development Center or DoD Laboratory are not eligible for this competition. Research proposals must address Research Interests of the Air Force Office of Scientific Research, FA9550-18-S-0003, found on www.grants.gov.

Awards: Most YIP awards are funded up to \$150,000 per year for three years, for a total of \$450,000. Exceptional proposals will be considered individually for higher funding levels and/or longer duration.

Proposal Deadline:

Pre-Solicitation YIP Questions due 14 April 2020 (Tuesday) Pre-Solicitation YIP Answers posted 28 April 2020 (Tuesday) YIP White Papers must be received no later than 14 May 2020 (Thursday) at 11:59 PM Eastern Time YIP Proposals must be received no later than 14 July 2020 (Tuesday) at 11:59 PM Eastern Time

Contact Information: Ellen M. Robinson; (703) 588-8527; Email: afosryip@us.af.mil

Grant Program: 2020 Broad Agency Announcement

Agency: Department of Defense W912HZ-20-BAA-01

Website: <https://beta.sam.gov/opp/a429587c4a284ad6a78ad1cf70c02d5c/view>

Brief Description: The U.S. Army Engineer Research and Development Center (ERDC) includes the Coastal and Hydraulics Lab (CHL), the Geotechnical and Structures Lab (GSL), the Reachback Operations Center (UROC), the Environmental Lab (EL) and the Information Technology Lab (ITL) in Vicksburg, Mississippi, the Cold Regions Research and Engineering Lab (CRREL) in Hanover, New Hampshire, the Construction Engineering Research Lab (CERL) in Champaign, Illinois, and the Geospatial Research Laboratory (GRL) in Alexandria, Virginia. The ERDC is responsible for conducting research in the broad fields of hydraulics, dredging, coastal engineering, instrumentation, oceanography, remote sensing, geotechnical engineering, earthquake engineering, soil effects, vehicle mobility, self-contained munitions, military engineering, geophysics, pavements, protective structures, aquatic plants, water quality, dredged material, treatment of hazardous waste, wetlands, physical/mechanical/ chemical properties of snow and other frozen precipitation, infrastructure and environmental issues for installations, computer science, telecommunications management, energy, facilities maintenance, materials and structures, engineering processes, environmental processes, land and heritage conservation, and ecological processes. This research is conducted by Government personnel and by contract with educational institutions, non-profit organizations and private industries.

Awards: Various

Proposal Deadline: BAA will close on Feb 05, 2021

Contact Information: Reginald Bryant Phone 601-634-7166 Deberay Carmichael Phone:601-634-5337; ERDC-BAA@usace.army.mil

Grant Program: Microsystems Technology Office (MTO)

Agency: Department of Defense HR001120S0036

Website: <https://beta.sam.gov/opp/a429587c4a284ad6a78ad1cf70c02d5c/view>

Brief Description: MTO seeks to develop high-risk, high-reward technologies that continue DARPA's mission of creating and preventing strategic surprise, help to secure the Department of Defense's (DoD) technological superiority, and address the complex threats facing U.S. national security. Proposed research should investigate innovative approaches that enable revolutionary advances in science, devices, or systems. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice.

As MTO evolves to address future microsystems-related challenges, the office has identified four thrust areas: (1) Embedded Microsystem Intelligence and Localized Processing, (2) Next Generation Front-End Component Technologies for Electromagnetic (EM) Spectrum Dominance, (3) Microsystem Integration for Increased Functional Density and Security, and (4) Disruptive Defense Microsystem Applications.

Each of these overlapping spaces present significant opportunities for exploring new and creative technologies.

1. **Embedded Microsystem Intelligence and Localized Processing:** Advances in artificial intelligence and machine learning-specific processors, graphic processing units (GPUs), and other special purpose computation technologies offer a new path to overcome such limitations. MTO seeks to explore the development of sensors and systems that enable specialized computation at the tactical edge and microsystems capable of learning, moving beyond those with pre-set functions. One area of particular interest within this topic is technologies to achieve improved cognitive electronic warfare (EW).

2. **Next Generation Front-End Component Technologies for Electromagnetic (EM) Spectrum Dominance:** For many DoD command, control, communications, computing, intelligence, surveillance, and reconnaissance (C4ISR) and EW systems, the analog and mixedsignal front-end fundamentally determines key performance characteristics, such as bandwidth, tuning range, dynamic range, etc. Often these requirements greatly exceed the needs of the commercial sector. Thus, these technologies tend to be niche and largely ignored by the commercial electronics industry, but they hold extraordinary value for the DoD. To maintain dominance in the EM battlespace, MTO is investing in a new set of emerging material, device, and circuit approaches that provide leapahead performance in the sensing and modulation for radio frequency (RF), active and passive photonic, electro-optical/infrared (EO/IR), and magnetic-field applications.

3. **Microsystem Integration for Increased Functional Density and Security:** Over the past decades, microelectronics advancement has proceeded through several waves – the first wave was controlled by device scaling, the second by the introduction of new materials and architectures, and the third through the creation of 3D devices. MTO has assumed a leadership role in the ongoing “Fourth Wave” revolution that will be dominated by 3D heterogeneous integration at multiple length scales. Fine-scale integration will bridge the technical gap between traditional assembly technology and the lithography-defined back-end-of-the-line dense interconnects. A key part of this vision is that fine-scale integration can serve as a means to tie together the incredibly powerful but widely available commercial.

Awards: This BAA is primarily, but not solely, intended for early stage research (studies) that may lead to larger, focused, MTO programs in the future. Studies are defined as single phase efforts of short duration (< 12 months) costing less than \$1,000,000.

Proposal Deadline:

Abstract Due Date: January 3, 2022

Full Proposal Due Date: March 13, 2022

Contact Information: BAA Coordinator HR001120S0018@darpa.mil

Grant Program: FY 2021 Multidisciplinary Research Program of the University Research Initiative (MURI)

FY 2021 MURI- ARMY Submission

FY 2021 MURI -ONR Submission

FY 2021 MURI -AFOSR Submission

Agency: Department of Defense

ONR Announcement # N00014-20-S-F003 ARO Announcement # W911NF-20-S-0009 AFOSR Announcement # FOA-AFRL-AFOSR-2020-0002

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

Brief Description: The MURI program supports basic research in science and engineering at U.S. institutions of higher education (hereafter referred to as "universities") that is of potential interest to DoD. The program is focused on multidisciplinary research efforts where more than one traditional discipline interacts to provide rapid advances in scientific areas of interest to the DoD. As defined in the

DoD Financial Management Regulation: Basic research is systematic study directed toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind. It includes all scientific study and experimentation directed toward increasing fundamental knowledge and understanding in those fields of the physical, engineering, environmental, and life sciences related to long-term national security needs. White papers and proposals addressing the following topics should be submitted to the Office of Naval Research (ONR):

ONR:

- Topic 1: Molecular Qubits for Synthetic Electronics
- Topic 2: A Brain-based Compositional Framework for Robust Computer Vision
- Topic 3: Littoral Ocean Dynamics off Rocky Coasts and Shorelines
- Topic 4: Fog and Turbulence
- Topic 5: Dynamic Tuning of Thermal Transport
- Topic 6: Chemically and Thermally Insensitive Super/Ultra-Hard Materials
- Topic 7: Narrative, Moral and Social Foundations of Social Cyber-Attack in Social Media
- Topic 8: A Dynamics and Control Theory of Safe, Cognitive and Learning Systems
- Topic 9: Understanding Turbulence-Chemistry Interactions in Non-Equilibrium, High-Speed Flows
- Topic 10: Predicting Organic Molecular Decomposition

White papers and proposals addressing the following topics should be submitted to the Army Research Office (ARO):

ARO:

- Topic 11: Anomalous Dipole Textures in Engineered Ferroelectric Materials
- Topic 12: Cyber Autonomy through Robust Learning and Effective Human/Bot Teaming
- Topic 13: Highly Heterogeneous Meta-macrostructures Created via Fine-particle Interactions
- Topic 14: Non-Silica Inorganic Material Phases Synthesized from Genetically Modified Diatoms
- Topic 15: Novel Mechanisms of Neuro-Glio Bio-Computation and Reinforcement Learning
- Topic 16: Quantum Network Science
- Topic 17: The Same is Different: Integrating Multiple Phenomena in Single Materials
- Topic 18: Tunable Dilute Anion III-Nitride Nanostructures for Stable Photocatalysis

White papers and proposals addressing the following topics should be submitted to the Air Force Office of Scientific Research (AFOSR):

AFOSR:

- Topic 19: Mechanisms of Novel Reactivity in Aqueous Microdroplets
- Topic 20: Topological Plasma Electromagnetics
- Topic 21: Interfacial Engineering of Superconductors
- Topic 22: Targeted Optical Stimulation of Individual Retinal Photoreceptors
- Topic 23: Quantum Random Access Memory
- Topic 24: Metasurface Edge Sensing, Processing and Computing
- Topic 25: Non-Hermitian Programmable Materials at Exceptional Points
- Topic 26: Mathematical Foundations for Enabling Robust Optimal Design of Hypersonic Systems

White papers and proposals addressing the following OSD topic should be submitted to the Air Force Office of Scientific Research (AFOSR):

OSD:

- Topic 27: Advanced Modeling of Evolutionary Cyber Eco-Systems with Autonomous Intelligence

Award: Standard Grants; Typical annual funding per grant is in the \$1.25M to \$1.5M range. Available Funding: \$180,000,000

Proposal Deadline:

White Papers due: 01 June 2020 (Monday) at 11:59 PM Eastern Time
Applications due: 14 September 2020 (Monday) at 11:59 PM Eastern Time

Contact Information:

Office of Naval Research Dr. Ellen Livingston Email: ellen.s.livingston@navy.mil

Army Research Office DR. LARRY RUSSELL, JR. Email: usarmy.rtp.ccdc-arl.mbx.aro-muri@mail.mil

Air Force Office of Scientific Research MS. KATIE WISECARVER Email: MURI@us.af.mil

DoD Liaison (for OSD topic) Dr. Jennifer Becker Email: jennifer.j.becker.civ@mail.mil

**Grant Program: FY 2021 Defense University Research Instrumentation Program (DURIP)-
AFOSR Submission**

FY 2021 Defense University Research Instrumentation Program (DURIP)- ARMY Submission

FY 2021 Defense University Research Instrumentation Program (DURIP)- ONR Submission

Agency: Department of Defense AFOSR: FOA-AFRL-AFOSR-2020-0001

Dept of Army W911NF-20-S-0006

Office of Naval Research FOA-AFRL-AFOSR-2020-0001

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

<https://www.wpafb.af.mil/Welcome/Fact-Sheets/Display/Article/842111/afosr-funding-opportunities-university-research-initiative-uri/#anchor1>

<https://www.onr.navy.mil/en/Education-Outreach/Sponsored-Research/University-Research-Initiatives/DURIP>

Brief Description: The Department of Defense (DoD) announces the Fiscal Year 2021 Defense University Research Instrumentation Program (DURIP). DURIP is designed to improve the capabilities of accredited United States (U.S.) institutions of higher education to conduct research and to educate scientists and engineers in areas important to national defense, by providing funds for the acquisition of research equipment or instrumentation. For-profit organizations are not eligible for DURIP funding. Proposing institutions should be seeking to purchase instrumentation in support of research areas of interest to the DoD, including areas of research supported by the administering agencies.

Army Research Office at <http://www.aro.army.mil>

Select “Broad Agency Announcements” in the “For the Researcher” section to see the most recent ARL or ARO Core Broad Agency Announcement for Basic and Applied Scientific Research.

Office of Naval Research at <http://www.onr.navy.mil/>.

Select “Contracts and Grants” and then “Funding Opportunities” to see the Long Range Broad Agency Announcement for Navy and Marine Corps Science and Technology, BAA N00014-18-S-B001.

Air Force Office of Scientific Research at <http://www.wpafb.af.mil/afri/afosr/>

Awards: DURIP funds will be used for the acquisition of major equipment to augment current or develop new research capabilities in support of DoD-relevant research. Proposals may request \$50,000 to \$1,500,000. Proposals for purely instructional equipment are not eligible. General-purpose computing facilities are not appropriate for DURIP funding, but requests for computers for DoD-relevant research programs are appropriate.

Proposal Deadline: May 15, 2020

Contact Information:

Army Research Office: DR. LARRY RUSSELL, JR.; Phone: (919) 549-421; E-mail:

usarmy.rtp.rdecom-aro.mbx.durip@mail.mil

Office of Naval Research: DR. ELLEN LIVINGSTON, Phone: (703) 696-4668, E-mail:

ellen.s.livingston@navy.mil

Grant Program: Quantum Information Sciences

Agency: Department of Defense FA8750-20-S-7006

Website:

https://beta.sam.gov/opp/dd6cccb1a9424440b7f0ff1d60ba9b7b/view?keywords=intelligence&sort=-modifiedDate&index=opp&is_active=true&page=1

Brief Description: The Air Force Research Laboratory - Information Directorate (AFRL/RI) is soliciting white papers under this Broad Agency Announcement (BAA) for research, design, development, concept testing, evaluation, experimentation, integration and delivery of Quantum Information Sciences supporting the implementation and use of Command, Control, Communications, Computers & Intelligence (C4I)-related information and communications technologies and techniques. In particular, this effort seeks to advance and assess advanced algorithm designs and technologies harnessing emerging quantum computing techniques to support AFRL/RI's C4I mission.

AFRL/RI has established a Quantum Information and Science branch (RITQ). Research within this branch will include Quantum Algorithms and Computing, Memory-Node-Based Quantum Networking, Quantum Information Processing, Superconducting Hybrid Quantum Platforms, and Quantum Information Sciences. These technologies will have both in-house and contractual based requirements to support the overall mission of the RITQ branch.

Further, AFRL/RI is interested in developing a user community around this emerging technology, to consist of other U.S. Government organizations (federal, state, and local), U.S. Government contractors and commercial industry, and academia (both public and private).

Awards: Various. Total funding for this BAA is approximately \$49.9M. Individual awards will not normally exceed 36 months with dollar amounts normally ranging from \$0.5M to \$2M.

Proposal Deadline: FY21 by 30 Sep 2020; FY22 by 30 Sep 2021

Contact Information: Kristi Mezzano

AFRL/RITQ

Telephone: (315) 330-2448

Email: AFRL.RIT.Quantum@us.af.mil

Grant Program: NRL Long Range Broad Agency Announcement (BAA) for Basic and Applied Research

Agency: Department of Defense Naval Research Laboratory N00173-19-S-BA01

Website: <https://www.nrl.navy.mil/doing-business/Current-NRL-BAA>

Brief Description: The Naval Research Laboratory (NRL) The Naval Research Laboratory (NRL) is the Navy's corporate laboratory. NRL conducts basic and applied research for the Navy in a variety of scientific and technical disciplines. The basic research program is driven by perceptions about future requirements of the Navy. NRL conducts most of its research program at its own facilities but also funds some related research such as anticipated by this announcement. More extensive research support opportunities are available from the Naval Research Laboratory (NRL). NRL announcements may be accessed via the Internet at <https://www.nrl.navy.mil/doingbusiness/contracting-division/baa>.

NRL is interested in receiving proposals for Long-Range Science and Technology (S&T) Projects which offer potential for advancement and improvement of Navy and Marine Corps operations. Readers should note that this is an announcement to declare NRL's broad role in competitive funding of meritorious research across a spectrum of science and engineering disciplines. A brief description of the NRL Program Codes and the science and technology thrusts that NRL is pursuing is provided below.

Additional information can be found at the NRL website at <https://www.nrl.navy.mil/research/directorates-divisions/>.

Awards: Various

Proposal Deadline: September 05, 2020

Contact Information: Mary A Johnson; Procurement Analyst; Phone 202-767-2021

[General Inquiries](#)

Department of Transportation

Grant Program: UTC PROGRAM TIER 1 COMPETITION 2020

Agency: Department of Transportation UTCTIER1COMP2020

Website: <https://www.transportation.gov/content/university-transportation-centers>

Brief Description: The U.S. Dept. of Transportation seeks applications for four new Tier 1 University Transportation Centers, intending (subject to the merits of applications received) to fund one UTC in each of the following specific topic areas:

1. Highly Automated Transportation Systems Research
2. Communications Technology and E-Commerce Effects on Travel Demand
3. Implications of Accessible Automated Vehicles and Mobility Services for People with Disabilities
4. Strategic Implications of Changing Public Transportation Travel Trends

Under statutory restrictions, lead/grantee universities on the twenty current Tier 1 UTCs with grants initially awarded in 2016 are not eligible to receive one of the new Tier 1 grants; non-lead consortium-member universities on current Tier 1 UTCs are eligible. More information about this is contained in the Notice of Funding Opportunity.

Awards: Up to \$1,925,000; Estimated available funding: \$4,925,000

Letter of Intent: April 29, 2020

Proposal Deadline: May 29, 2020

Contact Information: Amy Stearns University Program Specialist Phone 202-366-4957

amy.stearns@dot.gov

Grant Program: FY 2020 National Infrastructure Investments

Agency: Department of Transportation DTOS59-20-RA-BUILD

Website: <https://www.transportation.gov/BUILDgrants/apply>

Brief Description: Activities eligible for funding under BUILD Transportation planning grants are related to the planning, preparation, or design—including environmental analysis, feasibility studies, and other pre-construction activities—of eligible surface transportation capital projects described in Section C.3. (a). In addition, eligible activities related to multidisciplinary projects or regional planning may include: (1) Development of master plans, comprehensive plans, or corridor plans; (2) Planning activities related to the development of a multimodal freight corridor, including those that seek to reduce conflicts with residential areas and with passenger and non-motorized traffic; (3) Development of port and regional port planning grants, including State-wide or multi-port planning within a single jurisdiction or region; (4) Risk assessments and planning to identify vulnerabilities and address the transportation system's ability to withstand probable occurrence or recurrence of an emergency or major disaster.

Awards: The FY 2020 Appropriations Act specifies that BUILD Transportation grants may not be less than \$5 million and not greater than \$25 million, except that for projects located in rural areas (as defined in Section C.4.(a)) the minimum award size is \$1 million. There is no minimum award size, regardless of

location, for BUILD Transportation planning grants. Applicants are strongly encouraged to submit applications only for eligible award amounts.

Proposal Deadline: May 18, 2020 at 5:00pm Eastern Time.

Contact Information: For further information, please contact the BUILD Transportation grants program staff via e-mail at BUILDgrants@dot.gov, or call Howard Hill at 202-366-0301.

Department of Agriculture:

Grant Program: Distance Learning and Telemedicine Grants

Agency: Department of Agriculture RUS-20-02-DLT

Website: <https://www.rd.usda.gov/programs-services/distance-learning-telemedicine-grants>

Brief Description: Authorized by 7 U.S.C. 950aaa, the DLT Program provides financial assistance to enable and improve distance learning and telemedicine services in rural areas. DLT grant funds support the use of telecommunications-enabled information, audio and video equipment, and related advanced technologies by students, teachers, medical professionals, and rural residents. These grants are intended to increase rural access to education, training, and health care resources that are otherwise unavailable or limited in scope.

Awards: Approximately \$25 million, in addition to any available funds not awarded from Window 1, is available for funding opportunities under this FOA. The agency reserves the right to increase funding utilizing the application queue under this FOA should additional appropriations become available for the same purposes.

Proposal Deadline: July 13, 2020

Contact Information: dltinfo@usda.gov; (202) 720-0800

- [General Field Representatives](#)
-

Grant Program: Biotechnology Risk Assessment Grants Program

Agency: Department of Agriculture USDA-NIFA-BRAP-007072

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

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

Awards: Up to \$500,000; Anticipated available funding: \$4,500,000

Proposal Deadline: Mar 18, 2020 FY 2020: March 18, 2020 FY 2021: February 24, 2021 Letter of Intent Deadline: February 12, 2020; January 21, 2021 Note: Letter of Intent encouraged but not required

Contact Information: Dr. Lakshmi Matukumalli lakshmi.matukumalli@usda.gov (816)-926-1189

Grant Program: REAP-Renewable Energy Systems and Energy Efficiency Improvements

Agency: Department of Agriculture RDBCP-11-REAP-RES-EEI-2020

Website: <https://www.govinfo.gov/content/pkg/FR-2019-08-30/pdf/2019-18825.pdf>

Brief Description: Eligible applicants are agricultural producers and rural small businesses. All agricultural producers, including farmers and ranchers, who gain 50% or more of their gross income from the agricultural operations are eligible. Small businesses that are located in a rural area can also apply. Rural electric cooperatives may also be eligible to apply. Additional Information on Eligibility: Citizenship - To be eligible, applicants must be individuals or entities at least 51 percent owned by persons who are either: 1) citizens of the United States (U.S.), the Republic of Palau, the Federated States of Micronesia, the Republic of the Marshall Islands, or American Samoa; or 2) legally admitted permanent residents residing in the U.S. Project - The project must be to conduct a feasibility study for a renewable energy system. Eligible technologies include: projects that produce energy from wind, solar, biomass, geothermal, hydro power and hydrogen-based sources.

Awards: Up to \$500,000; Anticipated Funding: \$70 million

Submission Deadline: September 30, 2020

Contact: Technical Contact: Maureen Hessel, Energy Specialist, Phone 202-401-0142

Department of Labor

Grant Program: Youth Apprenticeship Readiness Grant Program

Agency: Department of Labor FOA-ETA-20-06

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

Brief Description: The purpose of this program is to support the development of new or the expansion of existing Registered Apprenticeship Programs (RAP) for youth. This also includes quality pre-apprenticeship programs that lead to a RAP. This grant program supports the President's Executive Order and the Department of Labor, Employment and Training Administration's goals to promote pre-apprenticeships, to develop a strong youth apprenticeship pipeline, and to expand access to youth apprenticeships. As a result, the grant will: 1) Increase awareness and adoption of the earn-and-learn apprenticeship model as a solution for experiential learning at the secondary educational level; 2) Increase parental, young adult, and employer awareness around the benefits of youth participation in RAPs, as well as their engagement in these models; 3) Develop and expand the number of RAP opportunities for youth, ensuring they meet RAP standards and pre-apprenticeship programs are of high quality and lead to RAP; 4) Increase academic and career-focused learning among youth, based on sound assessments, to increase employability in the labor force; 5) Promote increased alignment between state education and workforce systems through the development of policies that facilitate the transition from school to a RAP; and 6) Increase RAP opportunities for all youth, particularly underrepresented populations (including women, people of color, ex-offenders, persons with disabilities), youth with barriers to employment, and out-of-school youth.

Awards: Up to \$5,000,000; Estimated Total Program Funding: \$42,500,000

Proposal Deadline: May 06, 2020

Contact Information: Andrea Chism Grants Management Specialist chism.andrea.n@dol.gov

EPA

Grant Program: FY 2020 – FY 2021 Source Reduction Assistance Grant Program

Agency: Environmental Protection Agency

Website: https://www.epa.gov/sites/production/files/2020-02/documents/general_sra_grant_guidance.pdf

Brief Description: EPA is announcing a grant competition to fund two-year Source Reduction Assistance (SRA) agreements that support research, investigation, study, demonstration, education and training using source reduction approaches (also known as “pollution prevention” and herein referred to as “P2”). P2 means reducing or eliminating pollutants from entering any waste stream or otherwise released into the environment prior to recycling, treatment, or disposal. EPA is particularly interested in receiving applications that offer hands on practical P2 tools, information and/or innovative P2 approaches to measurably improve the public health and the surrounding environment, by reducing the use of hazardous substances, reducing toxic pollutants, supporting efficiencies in reducing resource use (e.g., water and energy), and reducing business expenditures and liability costs.

Award: EPA plans to award a total of approximately \$1.3 million in federal SRA grant funding issued over a twoyear funding cycle (approximately \$658,000 in FY 2020 funds and approximately \$658,000 in FY 2021 funds).

Submission Deadline: April 30, 2020

Contact: Michele Amhaz, 202-564-8857 amhaz.michele@epa.gov

Grant Program: National Environmental Education and Training Program

Agency: Environmental Protection Agency EPA-OA-EE-20-11

Website: <https://www.epa.gov/education/national-environmental-education-and-training-program-solicitation-notice-2020-rfa>

Brief Description: The purpose of the National Environmental Education and Training Program is to deliver environmental education (EE) training and long-term support to education professionals across the U.S. in the development and delivery of environmental education and training programs and studies.

Award: Under this competition, one cooperative agreement is expected to be awarded to a U.S. institution of higher education, a not-for-profit institution or a consortium of such institutions. The total estimated funding for the first year of the award (FY 2020) is \$2,175,500. For planning purposes, funding for years two and three should be estimated to be \$2,175,500 per year, subject to the availability of funds and other applicable considerations.

Submission Deadline: The closing date and time for receipt of application submissions is May 29, 2020 by 11:59 pm Eastern Time (ET).

Contact: Ginger Potter U.S. Environmental Protection Agency WJ Clinton North, potter.ginger@epa.gov

Department of Energy

Grant Program: Quantum Information Science Research for Fusion Energy Sciences

Agency: Department of Energy Office of Science DE-FOA-0002225

Website: <https://science.osti.gov/-/media/grants/pdf/foas/2020/SC-FOA-0002225.pdf>

Brief Description: The DOE SC program in Fusion Energy Sciences (FES) hereby announces its interest in receiving new applications for fundamental research for public benefit in the area of Quantum Information Science (QIS). Responsive applications will propose research that could have a transformative impact on FES mission areas—including fusion and discovery plasma science—and / or advance QIS development enabled by FES-supported science. While fully recognizing the interdisciplinary and crosscutting nature of QIS, responsive applications will focus on areas consistent with the unique role of FES in this rapidly developing field.

Awards: DOE expects that, subject to the availability of future year appropriations, up to \$10 million will be used to support grants and national laboratory authorizations under this FOA and its companion Program Announcement to the DOE National Laboratories (LAB 20-2319), respectively. DOE anticipates that the total value of grants made under this FOA will be between \$2 million and \$8 million.

Letter of Intent: May 15, 2020

Submission Deadline: N/A

Contact: Dr. John Mandrekas 301-903-4095 John.Mandrekas@science.doe.gov

Grant Program: Scientific Machine Learning for Modeling and Simulations

Agency: Department of Energy Office of Science DE-FOA-0002319

Website: https://science.osti.gov/-/media/grants/pdf/foas/2020/SC_FOA_0002319.pdf

Brief Description: The principal focus of this FOA is on Scientific AI/ML for modeling and simulations (PRD #5). Foundational research (PRDs #1, 2, and 3) will be needed for strengthening the mathematical and statistical basis in developing predictive AI/ML-based computational models and adaptive algorithms for scientific advances. Also, new techniques, software tools, and approaches will likely be needed to reap scientific benefits from the extreme heterogeneity of scientific computing technologies (e.g, processors, memory and interconnect systems, sensors) that are emerging.

Awards: DOE expects that, subject to the availability of future year appropriations, up to \$10 million will be used to support grants and national laboratory authorizations under this FOA and its companion Program Announcement to the DOE National Laboratories (LAB 20-2319), respectively. DOE anticipates that the total value of grants made under this FOA will be between \$2 million and \$8 million.

Letter of Intent: Submission Deadline for Pre-Applications: May 1, 2020 at 5:00PM Eastern Time A Pre-Application is required. Pre-Application Response Date: May 12, 2020 at 5:00PM Eastern Time

Submission Deadline: May 29, 2020 at 5:00PM Eastern Time

Contact: Dr. Steven Lee Program Manager Phone 301-903-5710 Steven.Lee@science.doe.gov

Grant Program: Artificial Intelligence and Decision Support for Complex Systems

Agency: Department of Energy DE-FOA-0002321

Website: https://science.osti.gov/-/media/grants/pdf/foas/2020/SC_FOA_0002321.pdf

Brief Description: The principal focus of this Program Announcement is on Scientific AI/ML for intelligent automation and decision support for complex systems (PRD #6). Foundational research (PRDs #1, 2, and 3) will be needed for strengthening the mathematical and statistical basis in developing predictive AI/ML-based computational models and adaptive algorithms for scientific advances. Also, new techniques, software tools, and approaches will likely be needed to reap scientific benefits from the extreme heterogeneity of scientific computing technologies (e.g., processors, memory and interconnect systems, sensors) that are emerging.

Disruptive technology changes are occurring across the science applications, algorithms, and architectures within HPC ecosystems. Recent reports and trends are heralding the triple convergence of HPC, massive data, and AI/ML on increasingly heterogeneous architectures. Furthermore, the concept of programming is evolving thanks to neural nets that can learn from massive amounts of training data (without being explicitly programmed). Significant innovations will be required in the development of good paradigms and approaches for realizing the full potential of AI/ML for scientific discovery. Consequently, the funding from this Announcement is not intended to incrementally extend current research in the area of the proposed project. Rather, the proposed projects must reflect viable strategies toward the potential solution of challenging problems in Scientific AI/ML research for decision support for complex systems. It is expected that the proposed projects will significantly benefit from the

exploration of innovative ideas or from the development of unconventional approaches. Proposed approaches may include innovative research with one or more key characteristics, such as asynchronous computations, mixed-precision arithmetic, automatic differentiation, compressed sensing, coupling frameworks, graph and network algorithms, randomization, Monte Carlo or Bayesian methods, probabilistic programming, or other relevant facets.

Awards: DOE anticipates that, subject to the availability of future year appropriations, the total value of grants made under this FOA will be between \$4 million and \$16 million. DOE anticipates that, subject to the availability of future year appropriations, a grand total of \$20 million will be used to support grants under this FOA and national laboratory authorizations under its companion Program Announcement to the DOE National Laboratories.

Letter of Intent: Submission Deadline for Pre-Application: May 6, 2020 at 5:00PM Eastern Time A Pre-Application is required Pre-Application Response Date: May 18, 2020

Submission Deadline: June 5, 2020 at 5:00PM Eastern Time

Contact: William Spotz, Ph.D. Program Officer Phone 301-903-9938
william.spotz@science.doe.gov

Grant Program: Novel Research and Development for the Direct Capture of Carbon Dioxide from the Atmosphere

Agency: Department of Energy DE-FOA-0002188

Website: <https://www.netl.doe.gov/business/solicitations>

Brief Description: DOE-Fossil Energy's program in Carbon Capture has been developing carbon capture technologies since 2001 with the goal of decreasing the cost of carbon capture systems. Technologies developed to date have focused on the capture of Carbon Dioxide directly from fossil fuel power plant gases. The Carbon Capture program is aiming to leverage this past research in materials and systems development for application to the conditions and process requirements of Direct Air Capture (DAC). However, there are several significant differences between these applications that will require applied research and the development of alternative capture media. The primary difference is the concentration of Carbon Dioxide

Awards: Up to \$2,500,000; Estimated Available Funding: \$10,000,000

Submission Deadline: May 29, 2020

Contact: Carla J. Winaught 304-285-4530 carla.winaught@netl.doe.gov

NASA

Grant Program: ROSES 2020: Advanced Component Technology

Agency: NASA NNH20ZDA001N-ACT

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B7835B8DB-014B-AF9D-E3CD-8E21310F984D%7D&path=&method=init>

Brief Description: This ACT call seeks disruptive technology, i.e., that involves higher risk but also has the potential for greater impact. These disruptive technologies can come from inside or outside the traditional field of Earth Science remote sensing. For any technology advanced, proposers must define an instrument architecture along with the science measurement(s) enabled, and then describe the proposed critical component or subsystem and how the proposed technology will fit into the instrument architecture. A description of how the proposed technology is responsive to both goals of the ACT program as described in Section 1.2 is required. Although this program element does not request software

development, proposers are asked to show, where appropriate, how innovations in artificial intelligence, machine learning, onboard processing, etc. could augment the proposed instrument architecture and/or could be used in the initial stages of the component or subsystem design.

Awards: Various; Available funding: \$4,800.000

Step 1 Proposal: May 22, 2020

Step 2 Proposal Deadline: July 21, 2021

Contact: Amber E. Emory, Science Mission Directorate, Earth Science Technology Office, NASA
Telephone: 301-614-6274; Email: amber.emory@nasa.gov

Grant Program: ROSES 2020: Living With a Star Science

Agency: NASA NNH20ZDA001N-LWS

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BAC38BC99-9D0A-09ED-2E93-E1EBA0B8D39F%7D&path=&method=init>

Brief Description: The Living With a Star (LWS) Program emphasizes the science necessary to understand those aspects of the Sun and Earth's space environment that affect life and society. The ultimate goal of the LWS Program is to provide a scientific understanding of the system that leads to predictive capability of the space environment conditions at Earth, other planetary systems, and in the interplanetary medium. Every year the LWS Program solicits Focused Science Topics (FSTs) that address some part of this goal. This year's FSTs are described in Sections 1.2 and 2-5 below. This goal poses two great challenges for the LWS program. First, the program seeks to address large-scale problems that cross discipline and technique boundaries (e.g., data analysis, theory, modeling, etc.); and second, the program will identify how this new understanding has a direct impact on life and society. Over time, the Targeted Investigations have provided advances in scientific understanding that address these challenges.

Awards: Various; Available funding: \$5,000.000

Step 1 Proposal: August 27, 2020

Step 2 Proposal Deadline: November 12, 2021

Contact: Simon Plunkett Heliophysics Division Science Mission Directorate NASA Telephone: (202) 358-2034 Email: simon.p.plunkett@nasa.gov

Grant Program: ROSES 2020: Space Weather Science Application Operations-to-Research

Agency: NASA NNH20ZDA001N-SWO2R

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B2FF5915D-4700-7B3B-43F1-0094ED1BE130%7D&path=&method=init>

Brief Description: The primary goal of the Space Weather Science Application Operations-to-Research (SWO2R) program is to support research to improve numerical models and/or data utilization techniques that could advance specification and/or forecasting capabilities and which could also lead to improved scientific understanding.

The primary goal of this solicitation is to support research to improve numerical models and/or data utilization techniques that could advance forecasting and/or specification capabilities and which could also lead to improved scientific understanding. Effective utilization of available data is encouraged. Employing advanced techniques for data assimilation, ensemble, and/or machine-learning is also encouraged. Improved neutral density specification and forecast capabilities could include, for example, effects of forcing from below, effects of variations in solar EUV flux, effects of heating from particle precipitation and joule dissipation, assimilation of satellite drag data, and regional variations in density. Improved neutral density specification and forecasts can support numerous applications, including satellite drag and orbit propagation, meeting Orbital Debris Mitigation Standard Practices (ODMSP), and

planning satellite megaconstellation operations. Improved forecasting and specification of the ionosphere could include the dynamics of total electron content, ionospheric scintillation, and electron density structure.

Awards: Various; Available funding: \$2,000.000

Step 1 Proposal: December 16, 2020

Step 2 Proposal Deadline: February 17, 2021

Contact: James Spann Heliophysics Division Science mission Directorate NASA Headquarters
Washington, DC 20546-0001 Telephone: 202-358-0574 Email: jim.spann@nasa.gov

Grant Program: ROSES 2020: Heliophysics Supporting Research

Agency: NASA NNH20ZDA001N-HSR

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BBA3F017B-32B1-74F1-3DC5-0DC78AA76DB9%7D&path=&method=init>

Brief Description: Heliophysics Supporting Research (SR) awards are research investigations of significant magnitude that employ a combination of scientific techniques. These must include an element of (a) theory, numerical simulation, or modeling, and an element of (b) data analysis and interpretation of NASA-spacecraft observations. HSR is a component of the Heliophysics Research Program and proposers interested in this program element are encouraged to see B.1, The Heliophysics Research Program Overview for Heliophysics-specific requirements. Common requirements for all ROSES elements and proposals are found in the ROSES Summary of Solicitation and the Proposer's Guidebook and the order of precedence for proposers.

Awards: Various; Available funding: \$6.500.000

Notices of Intent Due: N/A

Proposal Deadline: November 18, 2020

Contact: Patrick Koehn; Email: patrick.koehn@nasa.gov

Grant Program: HELIOPHYSICS - Early Career Investigator Program

Agency: NASA NNH20ZDA001N-ECIP

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BBC6756FD-561A-B7A1-F68A-2A18E6851701%7D&path=&method=init>

Brief Description: The Early Career Investigator Program (ECIP) in Heliophysics is designed to support outstanding scientific research and career development of scientists at the early stage of their professional careers. The program aims to encourage innovative research initiatives and cultivate diverse scientific leadership in Heliophysics. This program is designed to foster the empowerment, inspiration, and education of the next generation of space researchers, as part of the E of the DRIVE (Diversify, Realize, Integrate, Venture, Educate) initiative put forward as a high priority recommendation of the 2013 Solar and Space Physics Decadal Survey.

Awards: Various, Available funding: \$1,500,000

Notices of Intent Due: N/A

Proposal Deadline: August 12, 2020

Contact: Katya Verner, Telephone: 202-358-1213 Email: Ekaterina.M.Verner@nasa.gov

Grant Program: ROSES 2020: Astrophysics Research and Analysis

Agency: NASA NNH20ZDA001N-APRA

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?sollId=%7BD4C56B9D-7FF4-D128-D82D-6BB8F4306D00%7D&path=&method=init>

Brief Description: The Astrophysics Research and Analysis Program (APRA) program solicits basic research proposals for investigations that are relevant to NASA's programs in astronomy and astrophysics and includes research over the entire range of photons, gravitational waves, and particle astrophysics. Awards may be for up to four years' duration (up to five years for suborbital investigations), but shorter-term proposals are typical; four-year or five-year proposals must be well justified. Proposals for suborbital investigations are particularly encouraged. APRA investigations may advance technologies anywhere along the full line of readiness levels, from Technology Readiness Level (TRL) 1 through TRL 9. The emphasis of this program element is on technologies and investigations that advance NASA astrophysics missions and goals.

Awards: Various

Notices of Intent Due: N/A

Proposal Deadline: December 17, 2020

Contact: Dominic J. Benford Astrophysics Division, (202) 358-1261 Dominic.Benford@nasa.gov

National Endowment of Humanities

Grant Program: Research and Development

Agency: National Endowment for the Humanities 20200515-PR

Website: <https://www.neh.gov/grants/preservation/research-and-development>

Brief Description: The Research and Development program supports projects that address major challenges in preserving or providing access to humanities collections and resources. These challenges include the need to find better ways to preserve materials of critical importance to the nation's cultural heritage—from fragile artifacts and manuscripts to analog recordings and digital assets subject to technological obsolescence—and to develop advanced modes of organizing, searching, discovering, and using such materials.

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

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

Awards: Tier I provides awards up to \$75,000

Tier II provides awards up to \$350,000

Deadlines:

Optional Draft due: April 10, 2020

Application due: May 15, 2020

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

Brain Health Foundation

Grant Program: 2021 Scientific Innovations Award

Agency: Brain Research Foundation

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

Brief Description: [Brain Research Foundation](https://www.thebrf.org/) is inviting your institution to nominate **one senior faculty member** to submit a Letter of Intent for the 2021 *Scientific Innovations Award* (SIA). The objective of the program is to support projects that may be too innovative and speculative for traditional funding sources but still have a high likelihood of producing important findings. It is expected that investigations supported by these grants will yield high impact findings and result in major grant applications and funding as well as significant publications in high impact journals.

To be eligible, the nominee must be a **full-time associate professor/full professor** working in the area of neuroscience and brain function in health and disease. **Current major NIH or other peer-reviewed funding is preferred but evidence of such funding in the past three years is essential.**

Awards: The grant period is for two years totaling \$150,000. The support focus is for new research projects of the highest scientific merit.

Proposal Deadline: For more information and a complete list of requirements, please download the guidelines here [SIA Guidelines](#). The deadline to submit an LOI is Thursday, June 25, 2020 at 4:00 p.m. CST.

Contact: Please contact Richard Rosenberg at rmr@njit.edu if you are interested in submitting a proposal.

Facebook

Grant Program: Facebook Research

Agency: Facebook

Website: <https://research.fb.com/>

Brief Description: Various Programs: Please see below.

Statistics for Improving Insights, Models, and Decisions

Facebook is following up on the 2019 Statistics for Improving Insights and Decisions research awards to foster further innovation in this area and to deepen our collaborations with academia. In order to support academic work that addresses our challenges and opportunities while producing generalizable knowledge, Facebook is pleased to offer six research awards of up to \$50K each.

<https://research.fb.com/programs/research-awards/proposals/statistics-for-improving-insights-models-and-decisions-request-for-proposals/>

Deadline: April 29

2020 Networking

Networking is fundamental to the large-scale, distributed systems that power the family of Facebook applications that are used by billions of people. Facebook focuses on making innovative and scalable networking technology by rethinking traditional approaches and designs and collaborating with research and open source communities to develop an ecosystem of open hardware and software. To foster further innovation in networking and to deepen our collaboration with academia, Facebook is pleased to invite faculty and graduate students to respond to this call for research proposals.

<https://research.fb.com/programs/research-awards/proposals/2020-networking-request-for-proposals/>

Deadline: April 30

AI Systems Hardware/Software Co-Design

Deep learning has been particularly amenable to simultaneous design and optimization of several aspects of the system, including hardware and software, to achieve a set target for a given system metric, such as throughput, latency, power, size, or their combination. Facebook AI teams have been using co-design to develop high-performance AI solutions for both existing as well as future AI hardware, and we are currently looking to further explore co-design opportunities across a number of new dimensions. Facebook is pleased to invite university faculty to respond to the new call for research proposals on AI System Hardware/Software Co-Design.

<https://research.fb.com/programs/research-awards/proposals/ai-systems-hardware-software-co-design-request-for-proposals/>

Deadline: April 30

Foundational Integrity Research: Misinformation and Polarization

In this request for proposals (RFP), Facebook is offering awards to researchers interested in exploring the societal issues of misinformation and polarization related to social communication technologies. The goal for these awards is to support the growth of the scientific community in these spaces and to contribute to a shared understanding across the broader industry on how social technology companies can better address social issues on their platforms. Research is not restricted to focusing on Facebook apps and technology.

<https://research.fb.com/programs/research-awards/proposals/foundational-integrity-research-misinformation-and-polarization-request-for-proposals/>

Deadline: May 6

Economic Impact of Digital Technologies

Facebook is issuing a call for academic research proposals as part of its pledge to contribute \$1 million to research that addresses the economic impact of digital technologies, including new tools that enable commercial opportunities. Topics of interest for this request for proposals (RFP) include, but are not limited to, measuring new types of economic impact — for example, assessing the implications of digital technologies for growth, resilience under challenging circumstances, inclusion of marginalized groups, efficiency of payment systems, or other business outcomes.

<https://research.fb.com/programs/research-awards/proposals/economic-impact-of-digital-technologies-request-for-proposals/>

Deadline: May 20

Explorations of Trust in AR, VR, and Smart Devices

Facebook is soliciting proposals to help accelerate research in these fields with the hope of helping to foster a world of trustworthy mixed-reality and smart device products. Facebook is interested in a broad range of topics relating to applications like AR glasses, VR headsets, other AR or VR form-factors, smart home products, and more. A total of up to four awards are available, up to \$75,000 each.

<https://research.fb.com/programs/research-awards/proposals/explorations-of-trust-in-ar-vr-and-smart-devices-request-for-proposal/>

Deadline: June 12

Contact: Please contact Richard Rosenberg at rmr@njit.edu if you are interested in submitting a proposal.

Streamlyne Question of the Week

Question: Can I change project start and end dates after I have submitted for approval?

Answer: When a proposal is routed for approval certain information is locked to ensure that the information at the various approval levels (department, college, and university) remains constant. This is intended to guarantee that the authority of academic leadership (e.g., chairs and deans) is recognized in the system.

The start and end dates are included in the data that is locked. If you need to change the dates of a proposal already submitted for approval, you will have to recall the proposal, make the necessary changes, and resubmit for approval.

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

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 Business Continuity Plan (<https://www.njit.edu/coronavirus>)

The NJIT Proposal Submission Guidelines and Policy posted on the website <https://research.njit.edu/research-policies> provides the expected institutional timeline for proposal submission. These guidelines are especially important as the current situation, both at NJIT and our sponsors, may result in unforeseen complications.

- **1 month (or earlier) before the due date:** PIs should work with their college director or project manager to initiate the proposal submission process in Streamlyne, which should include the proposal identification number (NSF, NIH) and/or the RFP document. This will allow:
 - preliminary review of needs and sponsor requirements (meeting recommended)
 - set up the timeline in motion and internal checklist/deadlines
 - collaborator outreach and intake requirements (where applicable)
 - set up the budget and Streamlyne document development process
- **1 month - 2 weeks before due date:** The budget should be finalized and the approval process should be initiated. This includes academic approvals, conflict of interest forms, the detailed budget and justification, proposal title, and preliminary specific aims (NIH), proposal summary (NSF), or contract scope of work (SOW). College directors and program managers will provide project-specific checklists to aid PIs in this process.
- **2 weeks - 1 week before the due date:** submit all required internal attachments. College directors or project managers will assist in this process.
- **72 hours before the submission deadline:** We are suggesting that all final proposals be released for submission 72 hours before the deadline so that there is time to account for server delays, system outages, and other technical issues that may be more difficult to troubleshoot in a completely distributed work environment, both at NJIT and our sponsors.

Proposal Submission and Pre-Award Management Contacts

Questions about proposal submission should be directed to their college director or project manager. PIs should follow up with their support person in a timely manner so planning can be managed with respect to proposal complexity, scope of support, special needs, and volume related to multiple submissions with the same due date. The following are the respective college contacts:

NCE: John McCarthy, NCE Director of Research; (973) 596-3247; john.p.mccarthy@njit.edu

NCE: Deidra Slough, Grant Management Specialist, (973)-596-3428; deidra.l.slough@njit.edu

CSLA: Cristo Leon, CSLA Director of Research; (973) 596-6426; cristo.e.yanezleon@njit.edu
CSTR: Felicia Margolies, Project Manager, (973)-596-5377 felicia.h.margolies@njit.edu
YWCC: Sean Andrews, YWCC Director of Research; (973) 596-5352; sean.t.andrews@njit.edu
HCoAD and MTSM: Interim POC: Justin Samolewicz, Director (Pre Award); (973)-596-3145; justin.m.samolewicz@njit.edu; **Iris Pantoja**, Project Manager; 973-596-4483; irp3@njit.edu (on maternity leave)
NJII and T&BD: Bobby J. Vadasserril; (973)-596-2941; bobby.j.vadasserril@njit.edu

Follow up messages or needs for escalation should be directed to:

- **Justin Samolewicz**, Director of Pre-Award Services, (973) 596-3145; justin.m.samolewicz@njit.edu
- **Eric Hetherington**, Executive Director, Sponsored Research Programs Administration, at (973) 596-3631; eric.d.hetherington@njit.edu as needed.

Streamlyne User Manuals: <http://www.njit.edu/research/streamlyne/>

- **Steamlyne_NewUserManual_CommonElements.docx** : This manual provides a reference to all the common elements of Streamlyne Research. This user manual is a good document to review each module's functionality.
- **Steamlyne_NewUserManual_PD&PDBudget.docx**: This is a user manual on proposal and budget development in Streamlyne. The content herein explain the use and functionality of this module. This is the most useful Streamlyne document for PIs and users new to Streamlyne.

Post Award Management Contacts

The Office of Research continues to provide assistance with post-award financial management with all staff working remotely. PIs or administrative staff with questions regarding the budget transfers, PAFs, questions concerning expenses, or other financial matters related to their grants should contact the appropriate person for their department listed below.

NCE, ITS Resource Center, PTAC:

Hattie Yeung, (973) 596-5734; hiumui.yeung@njit.edu

CSLA, CSTR, YWCC, HoAD, MTSM:

Kedeisha Carty, (973) 642-4295; kedeisha.s.carty@njit.edu

NJTPA, EOP, Pre-College, College Bound, Gear UP, McNair Center:

Brenda Garcia, (973) 596-2945; brenda.garcia@njit.edu

NJII and T&BD:

Bobby J. Vadasserril; (973)-596-2941; bobby.j.vadasserril@njit.edu

Follow up messages or needs for escalation should be directed to:

- **Mariel Diaz**, Director of Post-Award Management, (973) 596-2962; mariel.diaz@njit.edu
- **Eric Hetherington**, Executive Director, Sponsored Research Programs Administration, at (973) 596-3631; eric.d.hetherington@njit.edu as needed.

Office of Research Administration Operations

All Office of Research processes continue during this period of remote operation. Our hours of usual operation remain 8:30-4:30 Monday through Friday. All staff are available by email and most have their office phone numbers forwarded to them through Cisco Jabber. You should receive a reply to an inquiry within 24 hours. You may always reach out to your college's research administration support person for assistance.

Principal investigators who have subaward activity with other institutions or contracts with industry partners are asked to discuss the current situation with their counterparts to determine if the COVID-19 disruption will require a modification to our existing agreements. If it is determined that a modification is required, please contact Justin Samolewicz at Justin.m.samolewicz@njit.edu to discuss next steps.

Budget transfers or other actions needed to comply with this guidance should follow the standard procedures. Questions or concerns regarding post-award financial activity on grants may be directed to your grant accountant or Mariel Diaz at <mailto:mariel.diaz@njit.edu>.

Questions related to OMB guidance, research compliance or general concerns about the administration and financial management of grants and contracts may be directed to Eric Hetherington, Executive Director, Sponsored Research Programs Administration at erich@njit.edu

Please also use the following group email addresses for your specific questions in the respective areas:

- Pre-Award inquiries: srard@njit.edu
- Post-Award financial management: gca@njit.edu
- Institutional Review Board: irb@njit.edu
- Institutional Biosafety Committee: ibc@njit.edu

All other research-related inquiries during the emergency should be submitted to <https://research.njit.edu/inquiry>

Coronavirus (COVID-19) Information on Sponsored Research Impact Updated April 26, 2020

The Office of Research will continue to compile links for agency-specific guidance. The updates will be included in forthcoming Office of Research Newsletters and also posted on website <https://research.njit.edu/>.

Council on Government Relationships Resources on COVID-19's Impact to Federal Awards

- COGR Resource Information [*Institutional and Agency Responses to COVID-19 and Additional Resources*](#) (Updated Regularly)
- [COGR's Federal Agency Guidance Matrix \(Updated\)](#) (Revised April 15, 2020)
- [FAQ Addendum #1: NIH Specific FAQs \(Updated\)](#) (Revised April 13, 2020)
- [FAQ Addendum #2: Costing and Financial Compliance FAQs](#) (Revised April 9, 2020)

- [FAQs Regarding COVID-19's Impact to Federal Awards \(V.2.2\)](#) (Revised April 8, 2020)
- [Multi Association Request to OMB on Expansion of M-20-11 for Administrative Relief](#) (Revised March 18, 2020)

Office of Management and Budget

- M-20-22: [Preserving the Resilience of the Federal Contracting Base in the Fight Against the Coronavirus Disease 2019 \(COVID-19\)](#) (4/17/20)
- M-20-21: [Implementation Guidance for Supplemental Funding Provided in Response to the Coronavirus Disease 2019 \(COVID-19\)](#) (4/10/20)
- M-20-20: [Repurposing Existing Federal Financial Assistance Programs and Awards to Support the Emergency Response to the Novel Coronavirus \(COVID-19\)](#) (April 9, 2020)
- M-20-18: [Managing Federal Contract Performance Issues Associated with the Novel Coronavirus \(COVID-19\)](#) (March 20,2020)
- OMB M-20-17: [Administrative Relief for Recipients and Applicants of Federal Financial Assistance Directly Impacted by the Novel Coronavirus \(COVID-19\) due to Loss of Operations](#) (March 19, 2020)
- M-20-11: [Administrative Relief for Recipients and Applicants of Federal Financial Assistance Directly Impacted by the Novel Coronavirus \(COVID-19\)](#) (March 9, 2020)

National Institutes of Health (NIH)

Information on research impact:

- <https://www.nih.gov/health-information/coronavirus>
- https://grants.nih.gov/grants/natural_disasters/corona-virus.htm

On grant management:

- <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-20-083.html>
- <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-20-082.html> (Application deadlines)
- <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-20-091.html> (Late application policy)
- [Coronavirus Disease 2019 \(COVID-19\): Information for NIH Applicants and Recipients](#)
- [FAQ – COVID-19 Flexibilities for Applicants and Recipients](#)
- [Extramural Response to Natural Disasters and Other Emergencies](#) (continuously updated)
- [General Frequently Asked Questions \(FAQs\) - Proposal Submission and Award Management Related to COVID-19 \(NOT-OD-20-083\)](#)
- [Guidance for NIH-funded Clinical Trials and Human Subjects Studies Affected by COVID-19 \(NOT-OD-20-087\)](#)
- [Flexibilities for Assured Institutions for Activities of Institutional Animal Care and Use Committees \(IACUCs\) Due to COVID-19 \(NOT-OD-20-088\)](#)
- [Guidance on Travel and Meetings Hosted by NIH](#)
- [OLAW Webinar: Pandemic Contingency Planning and Its Impact on Animal Care](#)
- [NIH Shifts Non-mission-critical Laboratory Operations to Minimal Maintenance Phase](#)
- [Research and Funding Opportunities](#)
- [NIH Message to Applicants and Recipients of NIH Funds on Flexibilities Needed for COVID-19](#) (video)
- [National Library of Medicine Expands Access to COVID-19 Literature through PubMed Central](#)

- [Late Application Policy Due to Public Health Emergency for US Due To COVID-19 \(NOT-OD-20-091\)](#)
- [Updated on COVID-19 Flexibilities for the Research Community](#) (video)

National Science Foundation (NSF)

- [NSF Implementation of OMB Memorandum M-20-20](#) (April 10, 2020)
- [Frequently Asked Questions \(FAQs\) regarding the NSF Dear Colleague Letter on the Coronavirus Disease 2019 \(COVID-19\) \(NSF 20-052\)](#) (Updated 4/6/20)
- [NSF Implementation of OMB Memorandum M-20-17](#) (Revised April 1, 2020)
- https://www.nsf.gov/bfa/dias/policy/covid19/covid19faqs_proposerandawardee.pdf (Revised April 2, 2020)
- [Impact on Existing Deadline Dates](#)
- [FAQ About the Coronavirus Disease 2019 \(COVID-19\) for National Science Foundation \(NSF\) Proposers and Awardees](#)
- [Important Notice No. 146 - NSF Letter to Community Regarding COVID-19](#)
- [NSF Guidance for Major Facilities and Contracts Regarding COVID-19](#)
- [NSF Responses to Natural Disasters](#)
- [Coronavirus Information](#)
- [Frequently Asked Questions \(FAQs\) About the Coronavirus Disease 2019 \(COVID-19\) for National Science Foundation \(NSF\) Panelists](#)
- [NSF information concerning coronavirus disease 2019 \(COVID-19\)](#)
- [Dear Colleague Letter on the Coronavirus Disease 2019 \(COVID-19\)](#)
- [BIO-Wide Virtual Office Hours](#)

NSF Research on Coronavirus (COVID-19)

- [Dear Colleague Letter on the Coronavirus Disease 2019 \(COVID-19\)](#) — RAPID
 - [Frequently Asked Questions \(FAQs\) regarding the NSF Dear Colleague Letter on the Coronavirus Disease 2019 \(COVID-19\) \(NSF 20-052\)](#)
- [Dear Colleague Letter: Provisioning Advanced Cyberinfrastructure to Further Research on the Coronavirus Disease 2019 \(COVID-19\)](#) — RAPID
- [Dear Colleague Letter: Request for SBIR/STTR Phase I Proposals Addressing COVID-19](#)
- [NSF Supporting Research to Address Coronavirus Disease blog](#)

US Department of Energy

- [ARPA-E Actions Owing to the COVID-19 Public Health Emergency](#) (April 3, 2020)
- [Accommodating Interruptions from Coronavirus Disease 2019 \(COVID-19\)](#)
- [Department of Energy Letter Addressing Coronavirus \(COVID-19\)](#)
- [Coronavirus Hub](#)

Department of Transportation

- [U.S. Department of Transportation Announces Deadline Extension for Federal Transit Administration Competitive Grant Programs](#) (3/27/20)

United States Army Medical Research Acquisition Activity (USAMRAA)

- [USAMRAA's Supplemental Guidance on Administrative Flexibilities for Grants and Cooperative Agreements in Response to COVID-19 Pandemic](#) (3/25/20)
- [USAMRAA Animal Research Guidance](#) (3/19/20)
- [FAQs on COVID-19's Impact to Human Subjects Research](#)

Defense Advanced Research Projects Agency (DARPA)

- [COVID-19 Guidance USD\(R&E\)](#)
- [Frequently Asked Question \(FAQ\) about COVID-19 \(Coronavirus\) for DARPA Performers](#) (March 19)

Department of Defense (DOD)

- [ALLOW EXEMPTIONS FOR DOD FINANCIAL ASSISTANCE RECIPIENTS AFFECTED BY THE LOSS OF OPERATIONAL CAPACITY AND INCREASED COSTS DUE TO THE COVID-19 CRISIS](#)
- [COVID-19 FAQs for Grant Applicants and Recipients](#) (3/26/20)
- [Frequently Asked Questions for DOD Research Proposers and Awardees Impacted by the Novel Coronavirus \(COVID-19\)](#) (3/24/20)

National Air and Space Administration (NASA)

- [NASA COVID -19 For Grantees](#)
- [NASA Implementation of OMB Memorandum M-20-17](#) (Undated)
- [Grants and Research during the COVID-19 Epidemic](#) (3/25/20)
- [Administrator Statement on Agency Response to Coronavirus](#) (March 19)
- [COVID-19 Impact to NASA SBIR/STTR Program](#)
- [Coronavirus Information](#)
- [Assistant Administrator for Procurement Message on Coronavirus](#)
- [Memorandum for NASA Contractor Community - Preserving Readiness of the Space Industrial Base and Mission Operational Readiness due to COVID-19](#)

USDA - National Institute of Food and Agriculture

- [NIFA-20-006 Implementation of OMB Memo M-20-17](#) (4/9/20)
- [NIFA FAQs for Grantees](#) (4/8/20)
- [NIFA Deadline Extensions due to COVID-19](#) (3/18.20)

Food and Drug Administration

- [FDA Guidance on Conduct of Clinical Trials of Medical Products during COVID-19 Pandemic](#)
- [FAQs on 3D Printing of Medical Devices, Accessories, Components, and Parts During the COVID-19 Pandemic](#)
- [FDA - Flexibilities Available to Applicants and Recipients of Federal Financial Assistance Affected by COVID-19](#) (3/26/20)

Department of Health and Human Services

- [OHRP Issues Guidance for Application of the Human Subjects Protection Regulations to Actions Taken in Response to the COVID-19 Pandemic \(4/9/20\)](#)
- [Preparation for Potential COVID-19 Impact on Contract and Contractor Performance \(3/14/20\)](#)
- [Administration for Children and Families \(ACF\) Grantees and Recipients- Information Memorandum: IM-ACF-OA-2020-01 \(3/31/20\)](#)
- [ORI Operations Status during Public Health Emergency for United States for 2019 Novel Coronavirus \(COVID-19\)](#)

Environmental Protection Agency

- [EPA Frequent Questions on Grant Issues in Response to the Novel Coronavirus \(COVID-19\) Public Health Emergency \(3/27/20\)](#)

National Endowment for the Arts (NEA)

- [National Endowment for the Arts FAQs and Information for Applicants and Grantees in response to COVID-19](#)

National Endowment for the Humanities (NEH)

- [NEH Press Release: Information on NEH and COVID-19](#)