

NJIT Research Newsletter

Issue: ORN-2020-17

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

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Special Announcements

NIH POCTRN

**Fast-Track Program for COVID-19 Test Development and Distribution
Innovative Technologies to Increase U.S. Capacity for COVID-19 Testing**

<https://www.poctrn.org/radx>

NIH POCTRN is now accepting proposals for support on a rolling basis until further notice.

The National Institute of Biomedical Imaging and Bioengineering (NIBIB) is urgently soliciting proposals and **can provide up to \$500M** across multiple projects to rapidly produce innovative SARS-CoV-2 diagnostic tests that will assist the public's safe return to normal activities. *Rapid Acceleration of Diagnostics (RADx)*, is a fast-track technology development program that leverages the National

Institutes of Health (NIH) Point-of-Care Technology Research Network ([POCTRN](#)). RADx will support novel solutions that build the U.S. capacity for SARS-CoV-2 testing up to 100-fold above what is achievable with standard approaches. RADx is structured to deliver innovative testing strategies to the public as soon as late summer 2020 and is an accelerated and comprehensive multi-pronged effort by NIH to make SARS-CoV-2 testing readily available to every American.

NIBIB is providing substantial support to accelerate the development, validation, and commercialization of innovative point-of-care and home-based tests, as well as improvements to clinical laboratory tests, that can directly detect SARS-CoV-2, the virus that causes COVID-19. NIBIB will support the full range of product development including commercialization and product distribution.

To address the COVID-19 pandemic as quickly as possible, NIBIB is mobilizing and expanding the focus of POCTRN to encompass both point-of-care and more traditional laboratory-based approaches. NIBIB will consider innovations at all stages of readiness to circumvent current limitations to SARS-CoV-2 testing capacity, including:

- **Early stage:** transformative innovations based on novel testing strategies that have potential for major scale up
- **Advanced stage:** modification and optimization of existing SARS-CoV-2 testing approaches, including clinical laboratory tests, that can dramatically increase testing capacity

Design features might include technical innovations that:

- **Improve analytical performance**, e.g., sensitivity, specificity, dynamic range, limit of detection, reliability, accuracy, speed (time to test result) and throughput
- **Enhance operational performance** through, e.g., development of a patient- and user-friendly design, use of alternative sampling strategies (e.g., saliva, exhaled breath), integration with mobile-devices, designs for home-based use or strategies to overcome bottlenecks with current testing approaches
- **Improve access and reduce the cost of testing**

RADx will provide resources to support all phases of the product development pipeline from conceptualization and design to reduction-to-practice, performance evaluation, clinical validation, and scale-up of manufacturing.

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>) 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 [COGR's Federal Agency Guidance Matrix \(XLS\)](#).

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Grant Opportunity Alerts

Keywords and Areas Included in the Grant Opportunity Alert Section Below

NSF: Antarctic Research; 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)

NIH: Notice of Special Interest (NOSI): Data Driven Research on Coronavirus Disease 2019 (COVID-19) (R21); Emergency Awards: Rapid Investigation of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) and Coronavirus Disease 2019 (COVID-19) (R21); Superfund Research Program Occupational Health and Safety Education Programs on Emerging Technologies (R25); Institutional Development Award (IDeA) Networks for Clinical and Translational Research (IDeA-CTR) (U54); National Centers for Biomedical Imaging and Bioengineering (NCBIB) (P41); 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)

Department of Defense/US Army/DARPA/ONR: DoD, Breast Cancer, Innovator Award; 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

Department of Transportation: UTC PROGRAM TIER 1 COMPETITION 2020

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: Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0002252; 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: The New \(Early Career\) Investigator Program in Earth Science; Early Stage Innovations \(ESI\); National Space Grant College and Fellowship Program: Program-Level Independent Evaluation Opportunity](#); 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
[Private Foundations: Brain Health Foundation: 2021 Scientific Innovations Award](#)
Facebook: Facebook Research

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Recent Research Grant and Contract Awards

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

PI: Jacob Chakareski (PI)

Department: Informatics

Grant/Contract Project Title: Automated Orientation & Mobility Training in Virtual Reality for Low Vision Rehabilitation

Funding Agency: NIH

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

PI: Dale Gary (PI), Bin Chen (Co-PI) and Gregory Fleishman (Co-PI)

Department: Center for Solar Terrestrial Research

Grant/Contract Project Title: Solar Flare Energy Release

Funding Agency: NASA

Duration: 01/29/20-01/28/22

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In the News...

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

DOD Basic Research: [Prepared testimony submitted](#) by the Coalition for National Security Research says the Pentagon's FY 2021 budget "harms DoD's ability to build capacity in its research programs and workforce by proposing to eliminate funding for efforts such as Defense Established Programs to Stimulate Competitive Research (DEPSCoR)." The CNSR document also says "University Research Initiatives (URIs) would be absolutely devastated from funding levels proposed in the FY 2021 budget." Within the URI programs, the budget "proposes to fund the Multidisciplinary University Research Initiative (MURI) program and Defense University Research Instrumentation Program (DURIP) below FY 2010 levels in real dollars."

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. 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>

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Webinar and Events

Event: Spectrum Innovation Initiative: National Center for Wireless Spectrum Research (SII-Center) Webinar

Sponsor: NSF

When: May 8, 2020 1:00 PM – 2.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=300501&org=NSF

Brief Description: The Spectrum Innovation Initiative (SII) seeks to chart out a trajectory to ensure United States leadership in future wireless technologies, systems, and applications in science and engineering through the efficient use and sharing of the radio spectrum. The National Center for Wireless Spectrum Research (SII-Center, see <https://www.nsf.gov/pubs/2020/nsf20557/nsf20557.htm>) will serve as a focal point for sustained spectrum research in the most challenging areas that are expected to create

advanced wireless technologies and systems that benefit society, of which 5G and future cellular networks are an example. The SII-Center solicitation supports Multiple SII-Center Planning Grant awards funded at a level of up to \$300,000 for up to 12 months as well as one SII-Center award funded at a level of up to \$5,000,000/year for 5 years. The SII team will hold a webinar on Fri, May 08, 2020, 1:00 PM – 2:00 PM EDT that will cover the solicitation, submission requirements, and program updates.

To Join the Webinar: To participate in the webinar please register

at https://nsf.zoomgov.com/webinar/register/WN_Ard3HdOPT1issv7KKQRqtw

Event: Engineering for Civil Infrastructure Webinar

When: May 11, 2020 1:00 PM – 3.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=300452&org=NSF

Brief Description: The Engineering for Civil Infrastructure webinar will introduce and answer questions related to NSF's [Engineering for Civil Infrastructure \(ECI\) program](#) on Monday, May 11, 2020, from 1:00 pm to 3:00 pm EDT.

The ECI program is a core, unsolicited research program in the NSF Division of Civil, Mechanical and Manufacturing Innovation, Directorate for Engineering. Program Directors will discuss recent revisions in the program scope and new research thrusts within the ECI program.

To Join the Webinar: Register in advance for this Zoom webinar at: https://nsf.zoomgov.com/webinar/register/WN_Si7IAsmfQSeorgvbSQmlSg

Event: NSF CAREER Program Webinar

When: May 13, 2020 2:00 PM – 4.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=300458&org=NSF

Brief Description: This webinar will provide information on the [NSF Faculty Early Career Development program \(CAREER\) solicitation NSF 20-525](#) on Wednesday, May 13, 2020, starting at 2:00 pm Eastern Daylight Time.

The webinar will include a briefing on the CAREER program and key solicitation requirements followed by a question and answer session.

We encourage participants to submit questions before the webinar using the email careerwebinarqs@nsf.gov. Questions will be taken during the webinar as well.

To Join the Webinar: Register in advance for this webinar at https://nsf.zoomgov.com/webinar/register/WN_64qt_7leSUqXLwr4oJrgRQ After registering, you will receive a confirmation email containing information about joining the webinar.

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

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

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Grant Opportunities

National Science Foundation

Grant Program: Antarctic Research

Agency: National Science Foundation NSF 20-568

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20568/nsf20568.htm>

Brief Description: The Antarctic Sciences Section (ANT) of the Office of Polar Programs (OPP) supports cutting-edge research to:

- Expand fundamental knowledge of Antarctic systems, biota, and processes
- Improve understanding of interactions among the Antarctic region and global systems
- Utilize the unique characteristics of the Antarctic region as a science observing platform

The U.S. Antarctic Program (USAP) supports scientific research in Antarctica and the Southern Ocean with logistics provided by OPP's Antarctic Infrastructure and Logistics Section (AIL). Antarctic fieldwork is supported only for research that must be performed, or is best performed, in Antarctica. ANT encourages research, using existing samples, data, and models, that does not require fieldwork. ANT also encourages research that crosses and combines, disciplinary perspectives and approaches.

Awards: Standard or continuing grants; **Anticipated Funding Amount:** \$55,000,000

Letters of Intent: Not Required

Proposal Submission Deadline: Proposals Accepted Anytime

Contacts: Jennifer Burns, Program Director, Organisms and Ecosystems, telephone: (703) 292-2120, email: jmmburns@nsf.gov

Paul M. Cutler, Program Director, Glaciology, Ice Core Science, and Geomorphology, telephone: (703) 292-4961, fax: (703) 292-9025, email: pcutler@nsf.gov

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
-

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

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

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

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National Institutes of Health

Grant Program: Notice of Special Interest (NOSI): Data Driven Research on Coronavirus Disease 2019 (COVID-19) (R21)

Agency: National Institutes of Health NOT-LM-20-011

RFP Website: <https://grants.nih.gov/grants/guide/notice-files/NOT-LM-20-011.html>

Brief Description: In order to rapidly improve our understanding of the infection of SARS-CoV-2 and of COVID-19, NLM is encouraging the submission of R21 applications to address the following research areas of interest:

- Methods for mining clinical data that can be used to identify or predict presence of COVID-19 in biomedical phenotype data, or other relevant topics such as discovery of risks for infection by SARS-Cov-2 viruses, use of standard terminologies for these viruses in federated health data sets
- Public health surveillance methods that mines genomic, viromic, health data, environmental data and/or data from other pertinent sources such as social media, to identify spread and impact of SARS-Cov-2

Applications are expected to focus on informatics and data science methods to help address the COVID-19 pandemic in a timely manner. Applications that are not responsive will be withdrawn without review.

Awards: N/A

Letter of Intent: Not Required

Deadline: This notice applies to due date on June 16, 2020 only.

Submit applications for this initiative using one of the following funding opportunity announcements (FOAs) or any reissues of these announcement through the expiration date of this notice.

- [PA-19-053](#) NIH Exploratory/Developmental Research Grant Program (Parent R21 Clinical Trial Not Allowed)

Grant Program: Emergency Awards: Rapid Investigation of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) and Coronavirus Disease 2019 (COVID-19) (R21 Clinical Trial Not Allowed)

Agency: National Institutes of Health **PAR-20-177**

Companion Funding Opportunity: [PAR-20-178, R01](#) Research Project Grant

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-20-177.html>

<https://grants.nih.gov/grants/guide/pa-files/PAR-20-178.html>

Brief Description: The purpose of this Funding Opportunity Announcement (FOA) is to provide an expedited funding mechanism for research on Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) and Coronavirus Disease 2019 (COVID-19). NIAID is issuing this FOA in response to the declared public health emergency issued by the Secretary, HHS, for 2019 Novel Coronavirus (COVID-19).

This program is designed to provide expedited funding for research projects focusing on obtaining time-sensitive data in light of this public health emergency (e.g., the research questions cannot be efficiently addressed in another context and the nature of the event and/or impacted populations are well suited for the proposed study). Hence it is critical to enhance data-sharing and access and to have NIAID-funded data be findable, accessible, interoperable, and reusable ([FAIR](#)). **All NIAID-funded researchers are expected to share research data to enhance the rigor and reproducibility of research results and secondary use per the NIAID Data Sharing Guideline** at <https://www.niaid.nih.gov/research/data-sharing-and-release-guidelines>, as appropriate and consistent with achieving the goals of the program.

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

Letter of Intent: Not Required

Deadline: Applications will be accepted on a rolling basis, beginning on 04/30/2020.

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: Superfund Research Program Occupational Health and Safety Education Programs on Emerging Technologies (R25 - Clinical Trial Not Allowed)

Agency: National Institutes of Health RFA-ES-20-011

RFP Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-ES-20-011.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 overarching 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.

Through the R25 mechanism, the SRP is offering Higher Education Institutions the opportunity to develop and implement the use of educational programs on the occupational health and safety management practices for emerging technologies (e.g., emerging hazardous waste products, biotechnology, nanotechnology, alternative (green) chemistry, electronic waste, high performance buildings, 3-D printing, novel drug delivery in healthcare, sustainable remediation, and exposure and environmental detection technologies), emerging contaminants, disaster response research involving emerging technologies, and/or laboratory practices involving emerging technologies (e.g., global harmonization, control banding, health and safety practices of working in the field, mixing/disposal of laboratory materials, transportation of chemicals, and chain of custody). The education programs are designed to provide a unique educational opportunity to graduate students, postdoctorates, industrial hygienists, other professionals, and those involved in the training of other personnel using these technologies and associated hazardous substances (e.g., Train-the-trainer).

Awards: Although the size of award may vary with the scope of the Education Program proposed, budgets cannot exceed \$250,000 direct costs per year.

Letter of Intent: July 3, 2020

Deadline: August 3, 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: 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: 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](#) 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](#). 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://grants.nih.gov/grants/guide/pa-files/PA-18-591.html>).

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

Grant Program: DoD, Breast Cancer, Innovator Award

Agency: Department of Defense Dept. of the Army – USAMRAA W81XWH-20-BCRP-INNOV-2

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

Brief Description: Considering the current breast cancer landscape and the BCRP’s mission, all FY20 BCRP Innovator Award applications must address at least one of the following overarching challenges unless adequate justification for exception is provided.* • Prevent breast cancer (primary prevention) • Identify determinants of breast cancer initiation, risk, or susceptibility • Distinguish deadly from non-deadly breast cancers • Conquer the problems of overdiagnosis and overtreatment • Identify what drives breast cancer growth; determine how to stop it • Identify why some breast cancers become metastatic

Awards: Estimated Total Program Funding: \$11,200,000

Proposal Deadline: Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), June 24, 2020

• Invitation to Submit an Application: July 29, 2020

• Application Submission Deadline: 11:59 p.m. ET, October 6, 2020

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

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 encouraged to contact the appropriate Technical Point of Contact. 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

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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

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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.

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

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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

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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 two-year funding cycle

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

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Department of Energy

Grant Program: Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0002252

Agency: Department of Energy Office of Science DE-FOA-0002249

Website: <https://eere-exchange.energy.gov/#FoaId09466586-5279-4254-926d-219d2cf67dd5>

Brief Description: The Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Advanced Manufacturing Office, a Funding Opportunity Announcement (FOA) entitled “FY20 Advanced Manufacturing Multi-topic FOA”.

This FOA supports the achievement of AMO’s goals of enhanced productivity through innovation by focusing in three main areas: 1) next-generation manufacturing for advancing process technologies that improve energy efficiency in energy intensive and energy dependent processes; 2) modular, hybrid, and/or catalytic processes to improve energy efficiency in chemical manufacturing; and 3) connected, flexible, and efficient manufacturing facilities, products and energy systems. The FOA integrates identified research opportunities across AMO into a single funding opportunity and is intended to fund high-impact, applied research and development projects.

THIS IS A NOTICE OF INTENT (NOI) ONLY. This Notice is issued so that interested parties are aware of the EERE’s intention to issue this FOA in the near term. All of the information contained in this Notice is subject to change. EERE may issue a FOA as described herein, may issue a FOA that is significantly different from the FOA described herein, or EERE may not issue a FOA at all.

Awards: Estimated Total Program Funding: \$63,900,000

Letter of Intent: TBD

Submission Deadline: TBD

Contact: <https://eere-exchange.energy.gov>

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

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NASA

Grant Program: ROSES 2020: The New (Early Career) Investigator Program in Earth Science

Agency: NASA NNH20ZDA001N-NIP

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BB05DE781-3B1F-E548-F61A-BB14F66A2FAE%7D&path=&method=init>

Brief Description: The New (Early Career) Investigator Program (NIP) in Earth science is designed to support outstanding scientific research and career development of scientists and engineers at the early stage of their professional careers. The program welcomes innovative research initiatives and seeks to cultivate diverse scientific leadership in Earth system science. The Earth Science Division (ESD) places particular emphasis on the investigators' ability to promote and increase the use of space-based remote sensing through the proposed research. Proposals with objectives connected to needs identified in most recent Decadal Survey Thriving on our Changing Planet: A Decadal Strategy for Earth Observation from Space are welcomed.

The NIP supports all aspects of scientific and technological research aimed to advance NASA's mission in Earth system science (See the NASA Science Plan <http://science.nasa.gov/about-us/science-strategy/>).

Awards: Various; Available funding: \$3,000,000

Proposal Deadline: September 20, 2021

Contact: Allison Leidner Earth Science Division Science Mission Directorate NASA Headquarters Washington, DC 20546-0001 Telephone: 202.358.0855 Email: Allison.K.Leidner@nasa.gov

Grant Program: Early Stage Innovations (ESI)

Agency: NASA NNH20ZDA001N-ACT

Website: <https://nspires.nasaprs.com/external/solicitations/summary!init.do?solId=%7B345FEEE2-EF27-604E-0AE0-4528D800AB04%7D&path=open>

Brief Description: The National Aeronautics and Space Administration (NASA) Headquarters has released a solicitation, titled Early Stage Innovations (ESI), as an appendix to the Space Technology Mission Directorate (STMD) umbrella NASA Research Announcement (NRA) titled "Space Technology Research, Development, Demonstration, and Infusion 2020 (SpaceTech-REDDI-2020), on June 17, 2020. The solicitation is available by opening the NSPIRES homepage at <http://nspires.nasaprs.com/> by selecting "Solicitations," then selecting "Open Solicitations," and, finally, selecting "Early Stage Innovations (ESI)."

The Appendix exclusively seeks proposals that are responsive to one of the six topics:

- Advanced High-Capacity Cryogenic Refrigeration Components
- Modeling of Lunar Dust Behavior and Mitigation Techniques
- Micromachining of Optical Structures for Remote Sensing Applications
- Modeling and Model Validation of Parachute Dynamics During Inflation and Descent
- Methodologies for Assessing Space Technology Portfolio Investments
- Advancement of Additive Manufacturing Techniques for High Temperature Materials

Awards: Maximum of \$650K

Notices of Intent Due: May 20, 2020 (5 PM Eastern)

Proposals Due: June 17, 2020 (5 PM Eastern, 2 PM Pacific)

Contact: Claudia Meyer Space Technology Research Grants Program Executive Space Technology Mission Directorate, NASA Headquarters hq-esi-call@mail.nasa.gov

Grant Program: National Space Grant College and Fellowship Program: Program-Level Independent Evaluation Opportunity

Agency: NASA NNH20ZHA006C

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BD5CD56508-7C50-CD78-C04D-B7B779C7EE0D%7D&path=&method=init>

Brief Description: The purpose of this independent program-level impact evaluation is to 1) determine how and to what extent the Space Grant Program is designed and executed in alignment with federal law and NASA's STEM engagement goals and priorities; and 2) assess the impact and degree to which the Space Grant Program is achieving its intended outputs and outcomes on a national level. These efforts will provide Space Grant Program Management with robust evidence that can be used to drive future scaled evaluation strategy, program policy, data collection plans, and appropriated competitive awards.

Awards: Available funding: \$4750.000

Notices of Intent Due: June 5, 2020

Proposals Due: July 16, 2020

Contact: Erica J. Alston, Ph.D. Space Grant Deputy Manager Langley Research Center Mail Stop 033 Hampton, VA 23681 hq-space-grant@mail.nasa.gov

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?solId=%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

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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

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Private Foundations

Brain Health Foundation

Grant Program: 2021 Scientific Innovations Award

Agency: Brain Research Foundation

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

Brief Description: [Brain Research Foundation](#) 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.

Proposal Deadline: For more information, 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.

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.

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Streamlyne Question of the Week

Question: How can I add another investigator or my research ambassador to my proposal in order to help on budget preparation and edit proposal details?

Answer: Select the “Permissions” link from the left hand side of the main proposal screen in any proposal development document. From the Permissions screen you will be able to search for the person you wish to add and grant them a specific level of permission (aggregator, budget creator, viewer). After you select the appropriate person, click “Add” and they will be added to your proposal.

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

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Proposal Submission and Streamlyne Information

Internal Timeline for Successful and Timely Proposal Submission

Due to the COVID-19 outbreak, PIs are strongly advised to prepare proposals well in advance of agency deadlines. Every effort will be made to meet agency deadlines following the NJIT Research 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>

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Coronavirus (COVID-19) Information on Sponsored Research Impact Updated May 3, 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 \(XLS\)](#) (Revised April 28, 2020)
- [FAQ Addendum #1: NIH Specific FAQs \(Updated\)](#) (Revised April 13, 2020)
- [FAQ Addendum #2: Costing and Financial Compliance FAQs \(Updated\)](#) (Revised May 1, 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](#)