

NJIT Research Newsletter

Issue: ORN-2020-14

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

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Special Announcements

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 <https://www.cogr.edu/sites/default/files/COVID19AgencyGuidanceMatrixApril8.pdf>

Coronavirus (COVID-19) Information on Sponsored Research Impact

Updated April 12, 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)
- [FAQs Regarding COVID-19's Impact to Federal Awards \(V.2.2\)](#) (Revised April 8, 2020)
- [COGR's Federal Agency Guidance Matrix](#) (Revised April 8, 2020)
- [FAQ Addendum #1: NIH Specific FAQs](#) (Revised April 1, 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-20-20: [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](#)

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>

Grant Opportunity Alerts

Keywords and Areas Included in the Grant Opportunity Alert Section Below

NSF: Program: NSF Convergence Accelerator Phase I and II; Cybersecurity Education in the Age of Artificial Intelligence; Opportunities for Promoting Understanding through Synthesis (OPUS); Cyber-Physical Systems (CPS); Civic Innovation Challenge; Disrupting Operations of Illicit Supply Networks (D-ISN); PFE: Hydrologic Sciences (HS); Research Initiation in Engineering Formation (PFE: RIEF); Spectrum Innovation Initiative: National Center for Wireless Spectrum Research (SII-Center); Multimodal Sensor Systems for Precision Health Enabled by Data Harnessing, Artificial Intelligence, and Learning (SenSE)

NIH: Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grant (Parent T35); BRAIN Initiative: Exploratory Team-Research BRAIN Circuit Programs - eTeamBCP (U01) NIH Science Education Partnership Award (SEPA) (R25); Notice of Special Interest (NOSI) regarding the Availability of Urgent Competitive Revisions for Research on the 2019 Novel Coronavirus (2019-nCoV); Partnerships for Countermeasures against Select Pathogens (R01); NIMHD Exploratory/Developmental Research Grant Program (R21); Institutional Research Training Grant (Parent T32)

Department of Defense/US Army/DARPA/ONR: PRMRP Investigator-Initiated Research Award for Emerging Viral Diseases and Respiratory Health; UNITED STATES MILITARY ACADEMY Broad Agency Announcement; Department of Defense (DoD) – Science, Technology, Engineering, and

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

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

Department of Agriculture: 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: Scientific Machine Learning for Modeling and Simulations; Artificial Intelligence and Decision Support for Complex Systems; FAIR Data and Models for Artificial Intelligence and Machine Learning; Novel Research and Development for the Direct Capture of Carbon Dioxide from the Atmosphere; Request for Information: Funding Opportunity Announcement 2206 - Connected Communities; Scientific Discovery through Advanced Computing

NASA: ROSES 2020: ROSES 2020: 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

Science Center: CSL-Science Center Research Acceleration Initiative

Recent Research Grant and Contract Awards

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

PI: Senjuti Basu Roy (PI)

Department: Computer Science

Grant/Contract Project Title: CAREER: Streamlining Task Deployment on Crowdsourcing Platforms

Funding Agency: NSF

Duration: 06/01/20-05/31/25

PI: Michel Boufadel (PI)

Department: Center for Natural Resources

Grant/Contract Project Title: RAPID: Scaling, Causality, and Modulation of the Spread of COVID-19

Funding Agency: NSF

Duration: 04/15/20-03/31/21

PI: Namas Chandra (PI)

Department: Center for Brain Injury, Biomechanics, Materials and Medicine

Grant/Contract Project Title: SDR: Genomic Analysis of Blast Tube Induced TBI in Mice

Funding Agency: U.S. Department of Veterans Affairs

Duration: 04/01/20-12/31/20

PI: Sergei Adamovich (PI)

Department: Center for Rehabilitation Robotics

Grant/Contract Project Title: Utilizing Gaming Mechanics to Optimize Telerehabilitation Adherence in Persons with Stroke

Funding Agency: NIH

Duration: 04/01/19-03/31/22

In the News...

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

Emergency Student Aid Released to Colleges: The \$2.3 trillion CARES Act set aside \$12.6 billion for higher education, with half going to help institutions with the cost of dealing with the pandemic. The other half must be used by institutions for emergency grants to students to help pay for costs like food, housing and transportation. On April 9, the Department of Education said it was distributing the money for student aid right away. "Institutions will receive allocations and guidance for the institutional share" in the coming weeks, ED said. In a letter to college and university presidents about the student aid, Education Secretary Betsy DeVos noted that the legislation gives institutions considerable discretion on how to distribute the grants, but urged them "to prioritize your students with the greatest need, but at the same time consider establishing a maximum funding threshold for each student to ensure that these funds are distributed as widely as possible." See [how much](#) each institution will receive. Lewis-Burke reports that to get the money, institutions must download a certification document, review the document, have a campus leader sign, and submit through www.grants.gov. Funds will be available starting April 15. More information is posted on the website <https://insidehighered.com/news/2020/04/10/feds-begin-distributing-emergency-grants-students-affected-campus-closures>

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

NSF Eager Funding for Cybersecurity Education: 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. See the Dear Colleague Letter NSF 20-072: Cybersecurity Education in the Age of Artificial Intelligence on https://www.nsf.gov/pubs/2020/nsf20072/nsf20072.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click

Air Force, Navy Grant Extensions: The Air Force Office of Scientific Research (AFOSR) and the Office of Naval Research (ONR) have allowed for no-cost extensions for existing grants active as of March 31, 2020, Lewis-Burke Associates reports. Both research labs still recommend faculty contact their program officers regarding COVID-19 impacts to their research. Please follow agency links provided in the Special Announcements section for additional information.

Universities Push for Stimulus Funds: University representatives have a list of specific programs they want Hill appropriators to increase. These include Defense Research Sciences and University Research Initiatives in the Army, Navy, and Air Force; Basic Research Initiatives both department-wide and at the Defense Threat Reduction Agency; Defense-wide Manufacturing S&T, which supports the Manufacturing USA Network and Manufacturing Engineering Education Program (MEEP); and the National Defense Education Program. The academia reps argue in particular that the Multidisciplinary University Research Initiative (MURI) and Defense University Research Instrumentation Program (DURIP) are short of money to meet demand.

APLU released a statement expressing gratitude for investment in both students and institutions but noting the inadequacy of funding levels given the emergency financial condition of public universities. Additionally, the legislation does not address APLU's priorities for research funding or fix the problem created in the second emergency supplemental funding bill by excluding state entities from the paid leave tax credit. The legislation is far improved from the first version of the bill, no doubt due to the advocacy of APLU members and the broader higher education community, but the emergency needs of public universities far exceed the funding provided in this legislation.

The emergency supplemental measure creates a \$30.75 billion education stabilization fund with 46.3 percent specifically designated to higher education and 43.9 percent to local education agencies. After certain set asides from the \$30.75 fund, this will approximately result in \$14 billion provided by the U.S. Department of Education to colleges and universities through the Title IV disbursement system. At least half of funding provided to institutions must be used for emergency grants to students. The bill sets a few criteria to determine an institution's share as well as specific additional funds for HBCUs and MSIs and funds for smaller institutions who receive less than \$500,000 under the formula and have significant unmet need. Additionally, 9.8 percent (approx. \$2.95 billion) of the stabilization fund is provided to governors for use at their discretion to support higher education or local education agencies. A state must provide assurances it will not cut higher education funding below the average of the preceding three fiscal years. However, the Secretary of Education is given waiver authority to the requirement.

\$2.3 Trillion COVID-19 Stimulus Bill; R&D Mostly Virus-Related: The appropriations division of the Senate's bipartisan coronavirus aid and economic relief agreement contains \$340 billion in new funding to address the needs of the American people as we confront the coronavirus pandemic. The bill provides new resources to help strained state, local, and tribal governments as they combat this pandemic; support for hospitals and health care workers on the front lines of this public health crisis; funding to purchase personal protective equipment and much needed medical equipment; support for law

enforcement, firefighters, and first responders; funding for scientists researching treatments and vaccines; support for small businesses; support for local schools and universities; and funding for affordable housing and homelessness assistance programs. This funding is in addition to the \$150 billion Coronavirus Relief Fund that will provide state, local, and tribal governments with additional resources to address this pandemic. The summary does not reflect the mandatory or authorizing provisions of the agreement. The money in the Coronavirus Aid, Relief, and Economic Security (CARES) Act is targeted at combating the pandemic and its impact. See a [summary](#) and [the full bill](#).

Lewis-Burke Associates reports: "Most of the spending is going to support unemployment benefits, support for small businesses, emergency aid for hospitals, loans for affected industries, and disaster aid funds for states and local governments, among other efforts. The CARES Act also supports aid for institutions of higher education and more than \$300 billion for federal funding agencies like the National Institutes of Health (NIH), the National Endowment for the Humanities (NEH), and the Department of Defense, among others." A summary of the bill is posted on the website <https://www.appropriations.senate.gov/imo/media/doc/032520%20Title-By-Title%20Summary%20FINAL.pdf>

PANDEMIC Data Challenge: The White House is joining several institutions in a call to action to AI experts. They're seeking "new text and data mining techniques that can help the science community answer high-priority scientific questions related to COVID-19. These questions include What do we know about COVID-19 risk factors? What do we know about virus genetics, origin, and evolution? What do we know about non-pharmaceutical interventions? What do we know about vaccines and therapeutics? The [COVID-19 Open Research Dataset](#) contains all COVID-19 and coronavirus-related research from PubMed's PMC open access corpus using this query (COVID-19 and coronavirus research); additional COVID-19 research articles from a corpus maintained by the WHO; and bioRxiv and medRxiv pre-prints using the same query as PMC (COVID-19 and coronavirus research). More information about the challenge is posted at the website <https://www.kaggle.com/allen-institute-for-ai/CORD-19-research-challenge>

Webinar and Events

Event: Meeting of the STEM Education Advisory Panel

Sponsor: NSF

When: April 15, 2020 12:00 PM – 2.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=300205&org=NSF

Brief Description: Members of the public must contact nowens@nsf.gov to listen in to the meeting. Name, title, and organization are required.

10:00 – 10:10 am Introductions/Roll Call

10:10 – 11:30 Update on FC-STEM Activities

11:30 – 11:45 Committee and Subcommittee Deliverables

11:45 – 11:55 Membership Terms, Next Meeting

11:55 – 12:00 pm Closing Remarks

To Join the Webinar: Contact nowens@nsf.gov to listen in to the meeting

Event: April Virtual Office Hour with the Division of Integrative Organismal Systems (IOS)!

Sponsor: NSF

When: April 16, 2020 1:00 PM – 2.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=300324&org=NSF

Brief Description: The April IOS Virtual Office Hour will be held **April 16th from 1pm-2pm EDT**. This Office Hour will include discussion of [CAREER](#) proposals, solicitations, and Dear Colleague Letters recently released by NSF. This will be followed by time to ask questions about CAREER proposals, COVID-19, or any other NSF topics of interest.

Join us remotely and bring your questions, comments, concerns and ideas! Please use the registration link below to set up your participation in our April Virtual Office Hour.

Office hour registration and sign in for April 16, 2020:

To Join the Webinar: [Zoom registration link](#) – Be sure to choose April 16th!

Event: QED Proof-of-Concept Program: Creating a Winning Application [Webinar]

Sponsor: Science Center

When: Friday, April 17, 2020 1:30 PM – 2:30 PM

Program Website: <https://sciencecenter.org/discover/qed>

The QED Proof-of-Concept Program (from the Latin Quod Erat Demonstrandum – “that which is demonstrated”) invites academic researchers developing medical and life science technology with high commercial potential to apply for the 2020 annual competition. QED Proof-of-Concept Program now accepting applications. The QED Program invites the faculty of New Jersey Institute of Technology, developing novel medical and life science technology, to apply to the 2020 round of the Program. Applications received by/on our Early Application deadline of Thursday, April 9, 2020, will receive quick feedback from the Science Center on the content of the application – to improve the application by the Final QED Program Deadline of April 30, 2020. An overview of the QED Program and additional program information can be found at www.sciencecenter.org/discover/qed. QED provides key resources to facilitate the commercial development of early-stage technologies, including customized business mentorship, preparation of a funding plan, exposure to investors and industry representatives, and access to regulatory and legal specialists.

At the completion of the program, up to four selected academic research teams will be awarded one-year support of up to \$200,000 each. Funding for each awarded project is contributed equally by the Science Center and the researcher’s home institution. Technologies can be at any stage of development (ideation, pre-clinical, or clinical), but should have applied for patent protection, via the Technology Transfer Office of their institution.

Want to learn more about the QED Program? View the [recording of the NJIT QED Program Overview](#) at bit.ly/njitqedoverview, contact Sharon Ross, QED Program Manager, sross@sciencecenter.org, or contact Takeyah Young, NJIT Technology Transfer Officer (tyoung@njit.edu).

To Join the Webinar: Access online at <https://global.gotomeeting.com/join/154492373> (From your computer, tablet or smartphone.) or dial in using your phone: United States: [+1 \(646\) 749-3112](tel:+16467493112); Access Code: 154-492-373

Event: DARPA-SN-20-47: Air Space Total Awareness for Rapid Tactical Execution (ASTARTE) Proposers Day

Sponsor: DARPA

When: April 21, 2020 12:00 PM – 1.00 PM (ET)

Website: [Sam Website URL](#)

Brief Description: DARPA will host a Proposers Day in support of upcoming BAA HR001120S0039, Air Space Total Awareness for Rapid Tactical Execution (ASTARTE) on April 21, 2020 via webinar from 1:00 PM to 3:00 PM, Eastern Time (ET).

The objective of the ASTARTE program is to provide real-time, low-risk joint de-confliction between airspace users and joint fires at an Army Division-level to enable responsive support to tactical units and build a resilient air picture in an Anti-Access/Area Denial (A2/AD) environment while conducting Joint All-Domain Command and Control (JADC2) operations. ASTARTE will develop a virtual and live testbed for airspace management systems, a series of algorithms for airspace planning and operations, and a sensor network for delivering real-time spatial and temporal tracking of airborne platforms. Together, these elements will perform all aspects of sensor tasking, data processing, multi-modal data fusion and near-real time dissemination to enable dynamic spatial and temporal airspace management and operations. **To Join the Webinar:** Please register at https://sta4.stassociates.com/Registration_ASTARTE.asp

Event: Engineering Research Visioning Alliance Solicitation - Informational Webinar

Sponsor: NSF

When: April 22, 2020 1:00 PM – 2.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=300256&org=NSF

Brief Description: On Wednesday, April 22nd, from 1:00 to 2:30 pm Eastern time, the NSF Office of Emerging Frontiers and Multidisciplinary Activities (EFMA) will host a webinar to discuss the FY 2020 solicitation [Engineering Research Visioning Alliance \(ERVA\): Future Research Directions for the Engineering Research Community \(NSF 20-551\)](#).

During this webinar, potential proposers to the solicitation will be able to learn more about, and ask questions about, the [Engineering Research Visioning Alliance solicitation](#).

For those unable to watch the webinar live, the slides will be posted with a summary of questions and answers on this announcement after the meeting.

To Join the Webinar:

1. **To view the slide presentation**, join the Zoom interface

at: <https://nsf.zoomgov.com/j/1612172357?pwd=Qm1pTWWhXYWI0QUtYVmtzekk3RThDdz09>.

Meeting ID: 161 217 2357

Event passcode: 052369

2. **To obtain audio for the webinar**, dial: Toll-Free 1-877-951-7311 or Toll 1-203-607-0666 and enter passcode: 2210121 (Audio will not be available through the Zoom interface.)

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4. **To view real-time captions**, go

to: <https://www.captionedtext.com/client/event.aspx?EventID=4384273&Customer...> for event #4384273

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

Sponsor: NSF

When: Various; Please see below.

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

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

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

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

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

Grant Opportunities

National Science Foundation

Grant Program: NSF Convergence Accelerator Phase I and II

Agency: National Science Foundation NSF 20-565

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20565/nsf20565.htm>

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

Quantum Technology (Track C)

AI-Driven Innovation via Data and Model Sharing (Track D)

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

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

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

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

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

Letters of Intent: Not Required

Proposal Submission Deadline:

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

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

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

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

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

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

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

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

Awards: Standard EAGER grants

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

Letters of Intent: See below about Step-1 submission

Proposal Submission Deadline:

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

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

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

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

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

Agency: National Science Foundation NSF 20-564

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

Brief Description: The OPUS program provides an opportunity for an individual or a group of investigators to revisit and synthesize a significant body of their prior research or data they have previously collected to enable new understanding. This program is appropriate for scientists at any career

stage and for any synthetic activities that aim to produce unique, integrated insight useful to the scientific community, now and in the future.

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

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

Letters of Intent: Not Required

Proposal Submission Deadline: August 03, 2020

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

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

Agency: National Science Foundation NSF 20-563

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

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

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

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

Letters of Intent: Not Required

Proposal Submission Deadline:

- December 02, 2020 Frontier proposals

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

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

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

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

Grant Program: Civic Innovation Challenge

Agency: National Science Foundation NSF 20-562

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20562/nsf20562.htm>

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

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

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

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

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

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

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

Letters of Intent: Not Required

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

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

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

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

Grant Program: Disrupting Operations of Illicit Supply Networks (D-ISN)**Agency: National Science Foundation NSF 20-561****RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20561/nsf20561.htm>**Brief Description:** Major goals of NSF's D-ISN include:

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

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

Awards: Standard grants or Cooperative Agreement; Anticipated Funding Amount: \$10,000,000**Letters of Intent:** July 01, 2020**Proposal Submission Deadline:** Proposals Accepted Anytime**Contacts:** Georgia-Ann Klutke, telephone: (703) 292-2443, email: d-isn@nsf.gov

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

Grant Program: Hydrologic Sciences (HS)**Agency: National Science Foundation NSF 20-560****RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20560/nsf20560.htm>

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

Awards: Standard grants or Cooperative Agreement; Anticipated Funding Amount: \$10,000,000**Letters of Intent:** Not Required**Proposal Submission Deadline:** Proposals Accepted Anytime**Contacts:** Laura Lautz, E 8481, telephone: (703) 292-7775, email: llautz@nsf.govIngrid Padilla, E 8339, telephone: (703) 292-2268, email: ipadilla@nsf.gov

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

Agency: National Science Foundation NSF 20-558

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

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

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

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

Letters of Intent: Not Required

Proposal Submission Deadline: November 10, 2020

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

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

Agency: National Science Foundation NSF 20-557

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20557/nsf20557.htm>

Brief Description: The focus of a spectrum research SII-Center must go beyond 5G, IoT, and other existing or forthcoming systems and technologies and chart out a trajectory to ensure United States leadership in future wireless technologies, systems, and applications in science and engineering through the efficient use and sharing of the radio spectrum. The SII-Center should also seek to foster scientific and technical collaboration and grow the spectrum workforce. The establishment of an SII-Center will have a transformational impact on wireless spectrum research by serving as a connecting point for the biggest and most challenging questions in spectrum management that the nation is facing.

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

Letters of Intent: Required

Proposal Submission Deadline:

SII-Center Planning Grant Proposals*

- Full Proposal Deadline (due by 5 p.m. submitter's local time):
June 12, 2020

* Submission of an SII-Center Planning Grant Proposal is not required to submit an SII-Center Proposal

SII-Center Proposals

- Letter of Intent (required, due by 5 p.m. submitter's local time):

February 01, 2021

- Full Proposal Submission Window

March 01, 2021 - April 01, 2021

Contacts: Bevin A. Zauderer, MPS/AST, telephone: (703) 292-2428, email: SII-Center@nsf.gov

- Mohammad Ali, ENG/ECCS, telephone: (703) 292-4632, email: SII-Center@nsf.gov
 - Alexander Sprintson, CISE/CNS, telephone: (703) 292-8950, email: SII-Center@nsf.gov
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Grant Program: Multimodal Sensor Systems for Precision Health Enabled by Data Harnessing, Artificial Intelligence, and Learning (SenSE)

Agency: National Science Foundation NSF 20-556

RFP Website: <https://www.nsf.gov/pubs/2020/nsf20556/nsf20556.htm>

Brief Description: The National Science Foundation (NSF) through its Divisions of Electrical, Communications and Cyber Systems (ECCS); Chemical, Bioengineering, Environmental and Transport Systems (CBET); Civil, Mechanical and Manufacturing Innovation (CMMI); Information and Intelligent Systems (IIS); and Mathematical Sciences (DMS) announces a solicitation on Multimodal Sensor Systems for Precision Health enabled by Data Harnessing, Artificial Intelligence (AI), and Learning. Next-generation multimodal sensor systems for precision health integrated with AI, machine learning (ML), and mathematical and statistical (MS) methods for learning can be envisioned for harnessing a large volume of diverse data in real time with high accuracy, sensitivity and selectivity, and for building predictive models to enable more precise diagnosis and individualized treatments. It is expected that these multimodal sensor systems will have the potential to identify with high confidence combinations of biomarkers, including kinematic and kinetic indicators associated with specific disease and disability. This focused solicitation seeks high-risk/high-return interdisciplinary research on novel concepts, innovative methodologies, theory, algorithms, and enabling technologies that will address the fundamental scientific issues and technological challenges associated with precision health.

Awards: Standard Grant; Anticipated Funding Amount: \$6,500,000

Letters of Intent: Not Required

Proposal Submission Deadline: June 08, 2020

Contacts: Shubhra Gangopadhyay, telephone: (703) 292-2485, email: sgangopa@nsf.gov

- Usha Varshney, telephone: (703) 292-8339, email: uvarshne@nsf.gov
 - Aleksandr L. Simonian, telephone: (703) 292-2191, email: asimonia@nsf.gov
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National Institutes of Health

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

Agency: National Institutes of Health PAR-20-162

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

Brief Description: The objective of the Ruth L. Kirschstein National Research Service Award Short-Term Institutional Research Training Grant (T35) program is to develop and/or enhance research training opportunities for health professional students and for graduate students in the physical or quantitative sciences interested in careers in biomedical, behavioral, and clinical research that are relevant to the NIH mission. The T35 program provides short-term support for a period of at least 8, but no more than 12,

weeks in a grant year for full-time training experiences under the supervision of experienced researchers. There is also increasing recognition of the need to enhance reproducibility of biomedical research results through scientific rigor and transparency. Trainees are exposed to individuals with active research careers and learn about further research training opportunities and research career options. The training program should be of sufficient depth to enable selected trainees, upon completion of the program, to have had sufficient exposure to the principles underlying the conduct of biomedical research. The proposed institutional research training program may complement other ongoing research training and career development programs at the applicant institution, but the proposed program must be clearly distinct from related programs currently receiving Federal support.

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

Letter of Intent: Not required

Deadline: [Standard dates](#) apply

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

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

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

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

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

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

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

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

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

Letter of Intent: June 14, 2020

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

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

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

Agency: National Institutes of Health PAR-20-153

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

Brief Description: The NIH Research Education Program (R25) supports research educational activities that complement other formal training programs in the mission areas of the NIH Institutes and Centers. The over-arching goals of the NIH R25 program are to: (1) complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs; (2) encourage individuals from diverse backgrounds, including those from groups underrepresented in the biomedical and behavioral sciences, to pursue further studies or careers in research; (3) help recruit individuals with specific specialty or disciplinary backgrounds to research careers in biomedical, behavioral and clinical sciences; and (4) foster a better understanding of biomedical, behavioral and clinical research and its implications. The overarching goal of this R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs.

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

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

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

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

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

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

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

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

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

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

- Studies to identify optimal 2019-nCoV *in vitro* culture requirements and conditions;
- Development of reagents and assays for virus characterization;
- Studies to understand critical aspects of viral infection, replication, pathogenesis, and transmission;
- Studies to identify viral epitopes critical for binding neutralization;
- Studies to examine virus stability and persistence;
- Production of molecular clones of 2019-nCoV, reporter viruses and recombinant viral proteins;
- Development of animal models of 2019-nCoV infection suitable for screening vaccine and therapeutic candidates and/or pathogenesis studies;

- Studies on the evolution and emergence of 2019-nCoV viruses including the identification of factors that affect viral host-range and virulence;
- Virologic and serologic surveillance studies of the distribution and natural history of 2019-nCoV viruses in animal populations and in humans at the human/animal interface with particular emphasis on host reservoirs and understanding cross-species transmission events;
- Development of sensitive, specific, and rapid clinical diagnostic tests for 2019-nCoV;
- Development of 2019-nCoV therapeutic candidates; broad-spectrum therapeutics against multiple coronavirus strains; examination of 2019-nCoV antiviral activity of existing or candidate therapeutics initially developed for other indications;
- Identification and evaluation of the innate, cellular and humoral immune responses to 2019-nCoV infection and/or candidate vaccines, including, but not limited to: cross-reactive antibodies from individuals exposed to 2019-nCoV and other coronaviruses; viral epitopes critical for antibody binding and neutralization; immune-mediated pathology or host factors that might predispose to severe infection; and
- Development of 2019-nCoV vaccine candidates that include emerging antigen design strategies, novel platforms or delivery approaches, adjuvants, or assessing cross-neutralization potential of SARS-CoV vaccine candidates.

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

- [PA-18-935](#) 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>).*

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

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

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

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

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

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

Deadline: June 29, 2020

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

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

Grant Program: NIMHD Exploratory/Developmental Research Grant Program (R21 - Clinical Trial Optional)

Agency: National Institutes of Health PAR-20-150

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-20-150.html>

Brief Description: Projects are expected to focus on human and population-based studies in the biomedical, clinical, population, behavioral or social sciences. This can include research with human participants, *in vitro* studies that utilize human tissues to investigate mechanisms underlying resilience or susceptibility to disease, observational studies, epidemiologic studies, patient outcomes research, intervention research, dissemination and implementation research, and health services research. Animal studies will not be supported under this FOA.

Projects must include a focus on one or more NIH-designated health disparity populations in the US, which include Blacks or African Americans, Hispanics or Latinos, American Indians and Alaska Natives, Asians, Native Hawaiians and Other Pacific Islanders, socioeconomically disadvantaged populations, underserved rural populations, and sexual and gender minorities (SGM). Comparison groups may be included as appropriate for the research question(s) posed. Populations outside the US may be included if the purpose is to inform understanding of the health of immigrants in the US who belong to designated health disparity populations.

NIMHD has organized its extramural scientific programs around three broad research interest areas: 1) Clinical and Health Services Research, 2) Community Health and Population Sciences, and 3) Integrative Biological and Behavioral Sciences. The Clinical and Health Services Research area supports clinical research focused on improving patient health care outcomes and the quality of healthcare services for health disparity populations. The Community Health and Population Sciences area supports research on interpersonal, family, neighborhood, community and societal-level mechanisms and pathways that influence disease risk, resilience, morbidity, and mortality in health disparity populations. The Integrative Biological and Behavioral Sciences area supports research examining how human biological and behavioral mechanisms and pathways acting at the individual and interpersonal levels influence resilience and susceptibility to adverse health conditions that disproportionately affect health disparity populations. For details about these research areas please visit <https://www.nimhd.nih.gov/programs/extramural/research-areas/>.

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

Letter of Intent: Not Required

Deadline: [Standard dates](#) apply

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

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

Grant Program: Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grant (Parent T32)

Agency: National Institutes of Health PAR-20-142

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PA-20-142.html>

Brief Description: The objective of the Ruth L. Kirschstein National Research Service Award (NRSA) Institutional Research Training Grant (T32) program is to develop and/or enhance research training opportunities for individuals interested in careers in biomedical, behavioral and clinical research that are relevant to the NIH mission. As the scientific enterprise has expanded, there is greater variation in the backgrounds of people participating, approaches taken to investigate research questions, and the range of the careers in the biomedical research workforce that doctoral recipients are pursuing. There is also increasing recognition of the need to enhance reproducibility of biomedical research results through scientific rigor and transparency.

Awards: NIH will provide funds to help defray other research training expenses, such as health insurance, staff salaries, consultant costs, equipment, research supplies, and faculty/staff travel directly related to the research training program. The most recent levels of training related expenses are announced annually in the *NIH Guide for Grants and Contracts*, and are also posted on the Ruth L. Kirschstein National Research Service Award (NRSA) [webpage](#).

Letter of Intent: Not Required

Deadline: [Standard dates](#) apply

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

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

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

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

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

Website: <https://www.grants.gov/web/grants/search-grants.html>
<https://cdmrp.army.mil/funding/pa/FY20-PRMRP-IIRA-COV.pdf>

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

Emerging Viral Diseases

- On demand identification, isolation, characterization and manufacturing of antibodies (monoclonal or polyclonal) from peripheral blood mononuclear cells (PBMCs) collected from patients with coronavirus disease 2019 (COVID-19).
- Development of a wearable sensor that provides real-time diagnostics that can be used as a point of care for emerging viral diseases to predict illness before onset of symptoms. The diagnostic

platform should be applicable to COVID-19. Virus-specific markers that can identify viruses at the genus level can be included, with an emphasis on SARS-CoV-2, the virus that causes COVID-19.

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

Respiratory Health

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

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

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

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

Grant Program: UNITED STATES MILITARY ACADEMY Broad Agency Announcement
Agency: Department of Defense Dept. of the Army – Materiel Command W911NF-20-S-0008

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

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

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

announcement for basic and applied research. The definitions of basic and applied research may be found at 32 Code of Federal Regulations (CFR) 22.105.

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

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

Awards: Various

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

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

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

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

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

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

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

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

Awards: The Government desires to issue one (1) new federal award in the form of a Grant for a period of performance not to exceed five (5) years. Applications for renewal or supplementation of existing

projects are not eligible to compete with applications for new Federal awards. It is anticipated any awarded Grant will be executed on or about 28 July 2020. Estimated available funding: \$25,000,000

Proposal Deadline: May 18, 2020

Contact Information:

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

morgan.f.ziatyk.civ@mail.mil

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

david.m.grimes.civ@mail.mil

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

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

Agency: Department of Defense BRO-20-NEWTON

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

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

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

Proposal Deadline: May 15, 2020

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

Grant Program: DoD Peer Reviewed Cancer Research, Idea Award

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

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

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

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

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

Proposal Deadline:

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

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

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

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

DoD Spinal Cord Injury, Translational Research Award

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

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

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

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

Proposal Deadline:

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

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

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

Agency: Department of Defense Air Force Office of Scientific Research

FOA-AFRL-AFOSR-2020-0003

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

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

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

Eligibility: Individual awards are made to U.S. institutions of higher education, industrial laboratories, or non-profit research organizations where the principal investigator (PI) is employed on a full-time basis and holds a regular position. YIP PIs must be a U.S. citizen, national, or permanent resident. Researchers working at a Federally Funded Research and Development Center or DoD Laboratory are not eligible for

this competition. Research proposals must address Research Interests of the Air Force Office of Scientific Research, FA9550-18-S-0003, found on www.grants.gov.

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

Proposal Deadline:

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

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

Grant Program: 2020 Broad Agency Announcement

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

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

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

Awards: Various

Proposal Deadline: BAA will close on Feb 05, 2021

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

Grant Program: Microsystems Technology Office (MTO)

Agency: Department of Defense HR001120S0036

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

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

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

for Increased Functional Density and Security, and (4) Disruptive Defense Microsystem Applications. Each of these overlapping spaces present significant opportunities for exploring new and creative technologies.

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

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

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

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

Proposal Deadline:

Abstract Due Date: January 3, 2022

Full Proposal Due Date: March 13, 2022

Contact Information: BAA Coordinator HR001120S0018@darpa.mil

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

FY 2021 MURI- ARMY Submission

FY 2021 MURI -ONR Submission

FY 2021 MURI -AFOSR Submission

Agency: Department of Defense

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

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

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

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

ONR:

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

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

ARO:

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

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

AFOSR:

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

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

OSD:

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

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

Proposal Deadline:

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

Applications due: 14 September 2020 (Monday) at 11:59 PM Eastern Time

Contact Information:

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

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

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

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

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

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

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

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

Dept of Army W911NF-20-S-0006

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

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

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

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

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

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

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

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

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

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

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

Proposal Deadline: May 15, 2020

Contact Information:

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

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

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

ellen.s.livingston@navy.mil

Grant Program: Quantum Information Sciences

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

Website:

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

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

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

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

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

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

Contact Information: Kristi Mezzano

AFRL/RITQ

Telephone: (315) 330-2448

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

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

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

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

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

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

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

Awards: Various

Proposal Deadline: September 05, 2020

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

[General Inquiries](#)

Department of Transportation

Grant Program: UTC PROGRAM TIER 1 COMPETITION 2020

Agency: Department of Transportation UTCTIER1COMP2020

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

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

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

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

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

Letter of Intent: April 29, 2020

Proposal Deadline: May 29, 2020

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

amy.stearns@dot.gov

Grant Program: FY 2020 National Infrastructure Investments

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

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

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

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

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

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

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

Department of Agriculture:

Grant Program: Biotechnology Risk Assessment Grants Program

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

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

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

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

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

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

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

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

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

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

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

Submission Deadline: September 30, 2020

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

Department of Labor

Grant Program: Youth Apprenticeship Readiness Grant Program

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

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

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

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

Proposal Deadline: May 06, 2020

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

EPA

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

Agency: Environmental Protection Agency

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

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

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

Submission Deadline: April 30, 2020

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

Grant Program: National Environmental Education and Training Program

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

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

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

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

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

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

Department of Energy

Grant Program: 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: FAIR Data and Models for Artificial Intelligence and Machine Learning

Agency: Department of Energy DE-FOA-0002306

Website: https://science.osti.gov/-/media/grants/pdf/foas/2020/SC_FOA_0002306.pdf

Brief Description: The DOE SC program in Advanced Scientific Computing Research (ASCR) hereby announces its interest in making research data and artificial intelligence (AI) models findable, accessible, interoperable, and reusable (FAIR1) to facilitate the development of new AI applications in SC's congressionally authorized mission space, which includes the advancement of AI research and development. In particular, ASCR is interested in supporting FAIR benchmark data for AI; and FAIR frameworks for relating data and AI models. For this FOA, AI is inclusive of, for example, machine learning (ML), deep learning (DL), neural networks (NN), computer vision, and natural language processing (NLP). Data, in this context, are the digital artifacts used to generate AI models and/or employed in combination with AI models during inference. An AI model is an inference method that can be used to perform a "task," such as prediction, diagnosis, or classification. The model is developed using training data or other knowledge. An AI task is the inference activity performed by an artificially intelligent system.

Awards: Up to \$750,000; Estimated Available Funding: \$8,500,500

Letter of Intent: April 17, 2020 at 5:00 PM Eastern Time

Submission Deadline: May 15, 2020 at 5:00 PM Eastern Time

Contact: Dr. Laura Biven Program Manager Phone 301-903-5000 Laura.Biven@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

Grant Program: Request for Information: Funding Opportunity Announcement 2206 - Connected Communities

Agency: Department of Energy DE-FOA-0002291

Website: <https://eere-exchange.energy.gov/#FoaIdd7e1815d-72e9-4a2c-a728-76e39db8704a>

Brief Description: The purpose of this RFI is to solicit feedback from utilities, industry, academia, EV service providers, research laboratories, government agencies, and other stakeholders on issues related to Grid-interactive Efficient Buildings in Connected Communities. EERE is specifically interested in information on the draft Connected Communities FOA goals and design. **This is solely a request for information and not a Funding Opportunity Announcement (FOA). EERE is not accepting applications.**

This RFI is not a Funding Opportunity Announcement (FOA); therefore, EERE is not accepting applications at this time. EERE may issue a FOA in the future based on or related to the content and responses to this RFI; however, EERE may also elect not to issue a FOA. There is no guarantee that a FOA will be issued as a result of this RFI. Responding to this RFI does not provide any advantage or disadvantage to potential applicants if EERE chooses to issue a FOA regarding the subject matter. Final details, including the anticipated award size, quantity, and timing of EERE funded awards, will be subject to Congressional appropriations and direction.

Awards: TBA

Submission Deadline: Responses to this RFI must be submitted electronically to CCPilotsRFI@ee.doe.gov no later than 5:00pm (ET) on May 12, 2020. Responses must be provided as attachments to an email. It is recommended that attachments with file sizes exceeding 25MB be compressed (i.e., zipped) to ensure message delivery. Responses must be provided as a Microsoft Word (.docx) attachment to the email, and no more than 10 pages in length, 12 point font, 1 inch margins. Only electronic responses will be accepted.

Contact: CCPilotsRFI@ee.doe.gov For responses and questions regarding this RFI

Grant Program: Scientific Discovery through Advanced Computing (SciDAC) Institutes

Agency: Department of Energy DE-FOA-0002223

Website: https://science.osti.gov/-/media/grants/pdf/foas/2020/SC_FOA_0002223.pdf

Brief Description: This FOA announces the fourth recompetition of the SciDAC (SciDAC-5) Institutes. The mission of the SciDAC-5 Institutes is to provide intellectual resources in applied mathematics and computer science, expertise in algorithms and methods, and scientific software tools to advance scientific discovery, for the public benefit, in areas of strategic importance to SC and DOE.

Specific goals and objectives for the SciDAC-5 Institutes are to support, complement or develop:

- Mechanisms for engaging computational grand challenges across application areas within DOE's and SC's Congressionally-authorized mission-space. Currently, 30 SciDAC-4 Partnership projects are co-funded by ASCR and its partners (<https://www.scidac.gov/partnerships.html>). Funding opportunities for the SciDAC-5 Partnerships will be announced through several FOAs and Program Announcements starting in fiscal year 2021. These Announcements, issued by ASCR's SciDAC Partners, will include opportunities for linking applied mathematics and computer science research to sciencedomain specific challenges (see below Institutes' Connection with the Partnerships).
- Tools and resources for lowering the barriers to effectively use state-of-the-art computational systems such as those existing and planned for at the Oak Ridge and Argonne Leadership Computing Facilities (OLCF and ALCF), the National Energy Research Scientific Computing Center (NERSC), and similar world-class computing facilities over the next five (5) years.
- Mechanisms for incorporating and demonstrating the value of basic research results from ASCR investments. It is expected that the proposed Institutes will be structured around two main topics: Applied Mathematics and Computer Science, respectively.
- Plans for building up and engaging our Nation's computational science research communities.

Awards: The total budget of a collaboration may not be lower than \$3,000,000 per year or higher than \$8,000,000 per year per multi-institutional collaboration. A proposed collaboration with a total budget outside these limits may be declined without merit review

Submission Deadline for Letter of Intent: April 4, 2020 at 5:00 PM Eastern Time

Submission Deadline for Applications: May 12, 2020 at 5:00 PM Eastern Time

Contact: Dr. Ceren Susut 301-903-0366 Ceren.Susut-Bennett@science.doe.gov

NASA

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?sollId=%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?sollId=%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

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

Grant Program: Fellowships

Agency: National Endowment for the Humanities 20200408-FEL

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

Brief Description: NEH Fellowships are competitive awards granted to individual scholars pursuing projects that embody exceptional research, rigorous analysis, and clear writing. Applications must clearly articulate a project's value to humanities scholars, general audiences, or both.

Fellowships provide recipients time to conduct research or to produce books, monographs, peer-reviewed articles, e-books, digital materials, translations with annotations or a critical apparatus, or critical editions resulting from previous research. Projects may be at any stage of development.

NEH invites research applications from scholars in all disciplines, and it encourages submissions from independent scholars and junior scholars.

Awards: Maximum award amount: \$60,000

Deadlines: April 8, 2020

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

Science Center

Grant Program: CSL-Science Center Research Acceleration Initiative

Agency: Science Center

Website: <https://sciencecenter.org/discover/csl>

Brief Description: [CSL Behring](https://www.csl.com) is a leading global biotechnology company that develops and delivers innovative biotherapies to help people living with life threatening medical conditions live full lives. CSL has partnered with the Science Center, a nonprofit institution that is dedicated to identifying and nurturing promising technology for over half a century, to build the CSL-Science Center Research Acceleration Initiative (CSL-Sc RAI). The initiative is designed to source research and fast-track discovery through partnerships between CSL and leading life sciences research institutions. Selected

projects receive funding and access to industry resources for scientists working on novel technologies in CSL's therapeutic areas.

The Research Acceleration Initiative is a partnership, with university investigators, intended to further develop promising new technologies. The process begins with the submission of a preproposal by interested investigators. These applications should include a non-confidential description of the technology, the proposed market and a general research plan to increase the idea's commercial readiness. Preproposals will be reviewed within CSL, and a number of finalists will receive invitations to present in person a more detailed description of the opportunity.

Awards: The Initiative will fund up to three proposals in 2020. Successful applicants will receive up to \$200,000 per year for up to two years (maximum \$400,000 funding) to accelerate translation of their research.

Pre-Proposal Deadline: April 27, 2020




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

Streamlyne Question of the Week

Question: How do I see the *Action List* of pending items in workflow?

Answer: Streamlyne Research will route you to the Action List. The Action List is the jumping-off page for all Streamlyne functionality. The Action List occupies the center of the page. Each line on the Action List represents a pending workflow item, requiring some sort of action from you. (Page 3 of the New User Manual posted on the Research website <http://www.njit.edu/research/sites/research/files/StreamlyneNewUserManualCommonElements.pdf>).

The Menu Bar remains fixed to your primary Streamlyne Research tab regardless of where you are in the application. This is your primary means of navigation in the application.

- Click the List button  to return to the Portal Page and Action List at any point.
- When you complete an action, the item is moved to the Outbox. Click the Outbox button  to review all items on which you have taken action.
- Click the Magnifying Glass  to access the Document Search function.

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

Proposal Submission and Streamlyne Information

Internal Timeline for Successful and Timely Proposal Submission

Due to the COVID-19 outbreak, PIs are strongly advised to prepare proposals well in advance of agency deadlines. Every effort will be made to meet agency deadlines following the NJIT Research Business Continuity Plan (<https://www.njit.edu/coronavirus>)

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

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

Proposal Submission and Pre-Award Management Contacts

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

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

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

CSLA: Cristo Leon, CSLA Director of Research; (973) 596-6426; cristo.e.yanezleon@njit.edu

CSTR: Felicia Margolies, Project Manager, (973)-596-5377 felicia.h.margolies@njit.edu

YWCC: Sean Andrews, YWCC Director of Research; (973) 596-5352; sean.t.andrews@njit.edu

HCoAD and MTSM: Interim POC: Justin Samolewicz, Director (Pre Award); (973)-596-3145;

justin.m.samolewicz@njit.edu; **Iris Pantoja**, Project Manager; 973-596-4483; irp3@njit.edu (on maternity leave)

NJII and T&BD: Bobby J. Vadasserril; (973)-596-2941; bobby.j.vadasserril@njit.edu

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

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

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

- **Steamlyne_NewUserManual_CommonElements.docx** : This manual provides a reference to all the common elements of Streamlyne Research. This user manual is a good document to review each module's functionality.

- **Steamlyne_NewUserManual_PD&PDBudget.docx**: This is a user manual on proposal and budget development in Streamlyne. The content herein explain the use and functionality of this module. This is the most useful Streamlyne document for PIs and users new to Streamlyne.

Post Award Management Contacts

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

NCE, ITS Resource Center, PTAC:

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

CSLA, CSTR, YWCC, HoAD, MTSM:

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

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

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

NJII and T&BD:

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

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

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