

# NJIT Research Newsletter

Issue: ORN-2020-20

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

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## Special Announcements

### **NSF Notification**

### **Implementation of the revised NSF Proposal and Award Policies and Procedures Guide (NSF 20-1)**

On June 1, 2020, NSF will implement the [Proposal and Award Policies and Procedures Guide](#) (PAPPG) (NSF 20-1) for proposals submitted or due on or after this date. The revised PAPPG implements a variety of changes and clarifications, the highest profile of which requires use of an NSF-approved format for the preparation of the biographical sketch and current and pending support. Due to the COVID-19 pandemic and the ensuing stress on proposers, the research community has not been able to adequately prepare and train their staff for the implementation of the new requirements.

NSF has therefore made the decision to delay the requirement to use NSF-approved formats for the [biographical sketch](#) and [current and pending support](#) sections of NSF proposals until October 1, 2020. Proposers must continue to format these documents in accordance with PAPPG requirements (see PAPPG sections [II.C.2.f](#) and [II.C.2.h](#)). NSF encourages the community to use these formats and continue to provide valuable feedback as we enhance them for future implementation.

Over the coming week, NSF will make updates to existing policy guidance, websites and Frequently Asked Questions (FAQs) to reflect the change. NSF will communicate further with the community once these updates have been made.

Webinars covering the use of NSF-approved formats as well as all of the significant changes to the PAPPG are available on the [NSF Policy Outreach website](#).

**NSF will continue to implement all other changes to the PAPPG beginning June 1, 2020, including the following:**

- New requirement for proposing organizations to submit government-wide representations and certifications in the System for Award Management (SAM);
- New requirement for providing e-mail documentation of Program Officer approval for the submission of RAPID and EAGER proposals; and
- Clarifications to current and pending support coverage as well as other changes throughout the document.

You are encouraged to review the by-chapter summary of changes provided in the Introduction section of the PAPPG. If you have any questions regarding these changes, please contact the DIAS/Policy Office at [policy@nsf.gov](mailto:policy@nsf.gov).

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## **NJIT Pandemic Recovery Plan**

### **Research Continuity Plan Update: Phased Recovery Operations Current Status: Recovery Phase-0**

- NJIT Pandemic Recovery Plan: <https://www.njit.edu/pandemicrecovery/>
- Research Continuity and Phased Recovery Plan: <https://research.njit.edu/njit-pandemic-recovery-plan>
- New Jersey's COVID-19 information hub: <https://covid19.nj.gov/index.html>
- White House Plan for Opening up America Again: <https://www.whitehouse.gov/wp-content/uploads/2020/04/Guidelines-for-Opening-Up-America-Again.pdf>

**Recovery Phase 0:** All non-essential research operations halted. Essential research operations follow strictest social distancing and safety protocols with only essential staff.

- Safety within laboratories must be rigorously maintained with adequate access to PPE and other safety related supplies. Labs will not be authorized for access unless adequate safety supplies are identified as being available. PIs must identify by name the people that will be considered essential personnel (including replacements/backups). During this time all essential research operations (ERO) must be approved by chair, dean, and the senior vice provost for research through the emergency research continuity plan process currently in place.
- Research involving human subjects that requires face-to-face interaction with human subjects is halted.
- Research that can be conducted remotely should be continued to the extent possible.

## Guidance on Financial Management of Grants and Contracts

### Agency Information Links

<https://research.njit.edu/njit-pandemic-recovery-plan>

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 financial management of the research grants and contracts with links to funding agencies is posted on the research website <https://research.njit.edu/njit-pandemic-recovery-plan>. Principal investigators should check with the websites of their specific funding agencies for more information. A multiple Funding Agencies Research Impact Guidance Matrix by the Council of Government Relationships is posted on the website [COGR's Federal Agency Guidance Matrix \(XLS\) \(Updated\)](#).

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### 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 the existing agreements. If it is determined that a modification is required, please contact Justin Samolewicz at [Justin.m.samolewicz@njit.edu](mailto: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](mailto:erich@njit.edu)

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### Grant Opportunity Alerts

Keywords and Areas Included in the Grant Opportunity Alert Section Below

**NSF: NSF-DFG Lead Agency Activity in Electrosynthesis and Electrocatalysis;** Division of Chemistry: Disciplinary Research Programs (CHE-DRP); Plant Biotic Interactions; Centers for Chemical Innovation (CCI); Industry-University Cooperative Research Centers Program (IUCRC); Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES)

**NIH: NIH Director's Emergency Transformative Research Awards (R01); NIH Director's Emergency Early Independence Awards (DP5); NIH Director's New Innovator Award Program (DP2); NIH Director's Pioneer Award Program (DP1); Research Program Award (R35); NIH Small**

Research Grant Program (R03); NIH Exploratory/Developmental Research Grant Program (R21); NIH Research Project Grant (R01)

**Department of Defense/US Army/DARPA/ONR: Program: Vision Research Program; Peer Reviewed Alzheimer's Research Program (PRARP); FY20 Epilepsy Research Program (ERP); DoD Hearing Restoration Focused Research Award; DoN Science, Technology, Engineering & Mathematics (STEM)**

**Department of Transportation: UTC PROGRAM TIER 1 COMPETITION 2020**

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

**Department of Labor: Youth Apprenticeship Readiness Grant Program**

**EPA: Assessment Tools for Biotechnology Products**

**Department of Energy: Advanced Manufacturing Office Multi-Topic FOA; Next-Generation Technologies and Field Validation; Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0002252; Artificial Intelligence and Decision Support for Complex Systems**

**NASA: ROSES 2020: Astrophysics Pioneers; The New (Early Career) Investigator Program in Earth Science; ROSES 2020: Space Weather Science Application Operations-to-Research; Heliophysics Supporting Research; HELIOPHYSICS - Early Career Investigator Program**

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

**Private Foundations: Brain Health Foundation: 2021 Scientific Innovations Award  
American Heart Foundation Notification**

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

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

**PI:** Tyson, Trevor (PI)

**Department:** Physics

**Grant/Contract Project Title:** Impact of Nanoscale Structure on Properties of Multiferroic Complex Oxides

**Funding Agency:** NSF

**Duration:** 08/01/18-07/31/21

**PI:** Hyojin Kim (PI)

**Department:** HCoAD

**Grant/Contract Project Title:** Empirical Validation of Energy Simulation

**Funding Agency:** U.S. Department of Energy (ORNL)

**Duration:** 12/09/19-09/30/22

**PI:** Angelantonio Tafuni (PI)

**Department:** Engineering Technology

**Grant/Contract Project Title:** Extrusion Die Work with a Focus on Flow Analysis

**Funding Agency:** NJ Precision Technologies, Inc.

**Duration:** 05/25/20-08/17/20

**PI:** Somenath Mitra (PI)

**Department:** Chemistry and Environmental Sciences

**Grant/Contract Project Title:** EAGER-Development of Antiviral Functionalized Carbon Nanotubes (CNTs) for Generating Virus-free Medical Grade Water and Preventing the Spread of COVID-19

**Funding Agency:** NSF

**Duration:** 06/01/20-05/31/21

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## **In the News...**

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

**New Bill Proposes \$100 Billion, 5-Year Expansion Of NSF To Bolster 10 High-Tech Fields:** A [bill introduced](#) by Senate Minority Leader Charles Schumer (D-N.Y.) would change NSF's name and more than double its funding through 2025 to advance selected research aims and prevent global competitors from achieving technological primacy. The new National Science and Technology Foundation would create a super directorate headed by a deputy director (the others are led by assistant directors), which would focus initially on:

- artificial intelligence and machine learning;
- high performance computing, semiconductors, and advanced computer hardware;
- quantum computing and information systems;
- robotics, automation, and advanced manufacturing;
- natural or anthropogenic disaster prevention;
- advanced communications technology;
- biotechnology, genomics, and synthetic biology
- cybersecurity, data storage, and data management technologies;
- advanced energy; and
- materials science, engineering, and exploration relevant to the other key technology focus areas.

**\$4.745 B to NIH, \$125 Million to NSF for COVID-19 Related Research:** The Democrats' [Health and Economic Recovery Omnibus Emergency Solutions \(HEROES\) Act](#) passed 208-199. A [House fact sheet](#) on the HEROES Act says it would give the National Institutes of Health \$4.745 billion "to expand COVID-19-related research on the NIH campus and at academic institutions across the country and to support the shutdown and startup costs of biomedical research laboratories nationwide." The bill directs \$3 billion to offset "costs related to reductions in lab productivity resulting from the coronavirus pandemic or public health measures related to the coronavirus pandemic," and \$1 billion "to support additional scientific research or the programs and platforms that support research:" The National Science Foundation's sum would be "to prevent, prepare for, and respond to coronavirus, including to fund research grants, of which \$1,000,000 shall be for a study on the spread of COVID-19 related disinformation:" Lewis-Burke's overall assessment: "While the bill addresses some of the issues raised by the higher education and research community, it still falls short of relief requests submitted to congressional leadership."

National Institutes of Health – \$4.745 billion to expand COVID-19-related research on the NIH campus and at academic institutions across the country and to support the shutdown and startup costs of biomedical research laboratories nationwide. Assistant Secretary for Preparedness and Response – \$4.575

billion to respond to coronavirus, including: ♣ \$3.5billion for Biomedical Advanced Research and Development Authority (BARDA) for therapeutics and vaccines; ♣ \$500 million for BARDA to support U.S.-based next generation manufacturing facilities; ♣ \$500 million for BARDA to promote innovation in antibacterial research and development; and ♣ \$75 million for the Office of Inspector General

**NIH Initiates New COVID-19 Research Funding Program** : So predicts Francis Collins, director of the National Institutes of Health, of the shark-tank-style competition under way to develop rapid, inexpensive tests for COVID-19. Recent stimulus legislation provided \$1.5 billion for the effort. Of that amount, \$500 million went to the National Institute of Biomedical Imaging and Bioengineering "to accelerate research, development, and implementation of point of care and other rapid testing related to coronavirus" and \$1 billion to Collins's office "to develop, validate, improve, and implement testing and associated technologies; to accelerate research, development, and implementation of point of care and other rapid testing; and for partnerships with governmental and non-governmental entities." More information about NIBIB's RADx funding program is provided in the Newsletter below and also posted on <https://www.poctrn.org/radx>.

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### **Webinar and Events**

**Event: Webinar: Harnessing cryo-EM to investigate GPCR structure and discover new medicines**

**Sponsor: Science, AAAS**

**When: May 27, 2020 12.00 PM – 1.00 PM**

**Website:**

<https://view6.workcast.net/register?cpak=8641468059902426&referrer=Blast3&et rid=285476668&et cid=3332039>

**Brief Description:** G protein-coupled receptors (GPCRs) are an important family of drug targets—about one-third of all U.S. Food and Drug Administration-approved drugs target the 800 GPCR family members. Despite many success stories, there are still a significant number of GPCR-targeting drugs that never leave the preclinical testing stage. Rational drug design at both orthosteric and allosteric binding sites hold the key for exploiting GPCR targets in full. Over the last 10 years, substantial progress has been made in the structural biology of GPCRs, facilitated by structure-based drug design (SBDD) approaches. Recent progress in the field of cryo-electron microscopy (cryo-EM) has enabled researchers to consistently image proteins at resolutions in the 2.5-Å range, leading to greater biological insights into ligand recognition and GPCR activation. Together, these advances point to GPCR SBDD becoming the new normal for delivering first-in-class and best-in-class drugs. This webinar will be presented by Matthew Belousoff from the Monash Institute of Pharmaceutical Sciences and Stacey Southall from Sosei Heptares, who will share their use of cryo-EM and how it fits into both the discovery and pharmaceutical side of GPCR research.

**To Join the Webinar:** Register at above URL.

**Event: Webinar: Maximizing Resources and Technologies for 100% Renewable Energy**

**Sponsor: ASES Webinar**

**When: May 27, 2020 2:00 PM - 3:00 PM EDT**

**Website:** <https://register.gotowebinar.com/register/6830066582493833486>



**Brief Description:** The ASES May Webinar will feature a presentation on maximizing all resources and technologies in order to achieve a 100% renewable energy grid given by SOLAR 20/20 Conference Chair, Scott Sklar. This webinar is directly related to the content being shared at our annual conference, SOLAR 20/20: Renewable Energy Vision on June 24 and 25. Learn more and register now at [ases.org/conference](http://ases.org/conference).  
**To Join the Webinar:** Please register at the above URL.

**Event: Partnerships for Innovation Webinars**

**Sponsor:** NSF

**When:** May 28, 2020 2:00 PM – 3.00 PM

June 11, 2020 2:00 PM – 3.00 PM

June 25, 2020 2:00 PM – 3.00 PM

July 2, 2020 2:00 PM – 3.00 PM

**Website:** [https://www.nsf.gov/events/event\\_summ.jsp?cntn\\_id=300578&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=300578&org=NSF)

**Brief Description:** Are you interested in developing your NSF-funded research into a proof-of-concept or prototype? If you have received an NSF research grant or participated in the NSF's Innovation Corps (I-Corps) program, you may be eligible to apply for an [NSF Partnerships for Innovation \(PFI\)](#) grant. PFI grants offers researchers from all disciplines of science and engineering funded by NSF the opportunity to perform translational research and technology development, catalyze partnerships, and accelerate the transition of discoveries from the laboratory to the marketplace for societal benefit. Join an upcoming webinar for the opportunity to ask questions about the PFI program and what to expect for the proposal submission deadline of July 8, 2020.

**To Join the Webinar:**

[Register for the May 28 webinar](#)

[Register for the June 11 webinar](#)

[Register for the June 25 webinar](#)

[Register for the July 2 webinar](#)

**Event: Picking the Wrong Radio Frequencies Can Cost You**

**Sponsor:** NSF

**When:** June 5, 2020 1.00 PM – 3.00 PM

**Website:** [https://www.nsf.gov/events/event\\_summ.jsp?cntn\\_id=300625&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=300625&org=NSF)

**Brief Description:** We all use the radio frequency (RF) spectrum numerous times throughout the day, and that use is increasing as more and more technologies and applications rely on this limited resource. However, every day the Federal Communications Commission (FCC) enacts spectrum violation penalties, which can range anywhere from a few hundred dollars to millions of dollars, because of lack of awareness about the radio regulations (RR). This webinar presents basic concepts about RF spectrum management and the RR process, and it shows you factors to consider when selecting the appropriate frequency of operation for your research.

**To Join the Webinar:** Register in advance for this webinar at [https://nsf.zoomgov.com/webinar/register/WN\\_PGxsYj60QHiM0O73DUu0Qw](https://nsf.zoomgov.com/webinar/register/WN_PGxsYj60QHiM0O73DUu0Qw)

**Event: DARPA Discover DSO Day (D3) Webinar**

**Sponsor:** DARPA

**When:** June 24-25, 2020 2:00 PM - 3:00 PM EDT

**Website:** [https://beta.sam.gov/opp/96bbedcfbf484da09118aa39a54a6ada/view?keywords=&sort=-modifiedDate&index=opp&is\\_active=true&page=1&organization\\_id=300000412](https://beta.sam.gov/opp/96bbedcfbf484da09118aa39a54a6ada/view?keywords=&sort=-modifiedDate&index=opp&is_active=true&page=1&organization_id=300000412)

**Brief Description:** The Defense Advanced Research Projects Agency (DARPA) Defense Sciences Office (DSO) is sponsoring the Discover DSO Day (D3) event to provide information to potential proposers on

the objectives of the DSO Office-wide Broad Agency Announcement (BAA). The event will be held on Tuesday and Wednesday, June 24-25, 2020, via webinar. Advance registration is required for all individuals intending to view the webinar alone or as part of a group. Note, all times listed in this announcement and on the registration website are Eastern Time. The goals of this event are to: (1) familiarize participants with DSO's mission; (2) promote understanding of the anticipated Office-wide BAA; and (3) facilitate discussions with potential performers. DARPA anticipates releasing the DSO Office-wide BAA in June 2020. If released, the BAA will be available on the Contract Opportunities page at <https://beta.sam.gov/> and at <http://www.grants.gov/>. Following the event, presented materials may be posted to <http://www.darpa.mil/work-with-us/opportunities>.

**To Join the Webinar:** Please register at <http://events.sa-meetings.com/2020DiscoverDSODay>

Registration opens: Tuesday, May 4, 2020 at 12:00 PM • Registration closes: Tuesday, June 17, 2020 at 5:00 PM or when capacity is reached, whichever comes first.

### **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](https://www.nsf.gov/events/event_summ.jsp?cntn_id=299152&org=NSF)

**Brief Description:** These lectures will be held at the National Science Foundation, 2415 Eisenhower Ave., Alexandria, VA 22314. Advance sign-up requests are required for preparation of visitor passes by emailing the contact below. Guidelines for visiting NSF are at <https://www.nsf.gov/about/visit/>  
June 11, 2020 2:00 PM to June 11, 2020 3:00 PM

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

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## **Grant Opportunities**

### **National Science Foundation**

**Grant Program:** NSF-DFG Lead Agency Activity in Electrosynthesis and Electrocatalysis (NSF-DFG EChem)

**Agency:** National Science Foundation NSF 20-578

**RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20578/nsf20578.htm>

**Brief Description:** We are particularly interested in novel and fundamental electrochemical reactions and studies addressing transformations in organic and polymer synthesis, water splitting (hydrogen/oxygen evolution), and nitrogen reduction (ammonia production). Relevant activities include, but are not limited to, mechanistic studies; catalyst design, synthesis, and characterization; computational modeling, theory, and simulation; and experimental tool development. For fundamental engineering science projects, we are interested in studies involving reaction engineering, reactor system design, and component or device scale studies as examples that provide fundamental knowledge supporting scale-up of systems. In addition, fundamental engineering science projects involving alternative (to thermal) activation mechanisms such as microwaves (e.g. microwave assisted catalysis) and low temperature plasmas (e.g. plasma-assisted catalysis) are welcomed.

**Awards:** Standard or continuing grants; **Anticipated Funding Amount:** \$5,000,000

**Letters of Intent:** An Expression of Interest (EOI) must be submitted to [NSFDFG@nsf.gov](mailto:NSFDFG@nsf.gov) by July 1, 2020, prior to the submission of a full proposal.

**Proposal Submission Deadline:** September 30, 2020



- Contacts:** Kenneth Moloy, CHE, telephone: (703) 292-8441, email: [NSFDFG@nsf.gov](mailto:NSFDFG@nsf.gov)
- Brandi Schottel, CBET, telephone: (703) 292-4798, email: [NSFDFG@nsf.gov](mailto:NSFDFG@nsf.gov)
  - Markus Behnke, DFG/PC, telephone: 49 (228) 885-2181, email: [NSF-DFG-Chemistry@dfg.de](mailto:NSF-DFG-Chemistry@dfg.de)
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**Grant Program: Division of Chemistry: Disciplinary Research Programs (CHE-DRP)**

**Agency: National Science Foundation NSF 20-577**

**RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20577/nsf20577.htm>

**Brief Description:** This solicitation applies to nine CHE Disciplinary Chemistry Research Programs: Chemical Catalysis (CAT); Chemical Measurement and Imaging (CMI); Chemical Structure, Dynamics and Mechanisms-A (CSDM-A); Chemical Structure Dynamics and Mechanisms-B (CSDM-B); Chemical Synthesis (SYN); Chemical Theory, Models and Computational Methods (CTMC); Chemistry of Life Processes (CLP); Environmental Chemical Sciences (ECS); and Macromolecular, Supramolecular and Nanochemistry (MSN).

All proposals submitted to these nine CHE Disciplinary Research Programs (other than the following exceptions) must be submitted through this solicitation, otherwise they will be returned without review.

Exceptions:

- Faculty Early Career Development Program (CAREER) proposals should be submitted through the CAREER solicitation ([https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=503214](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503214)) by the CAREER deadline date specified.
- Facilitating Research at Primarily Undergraduate Institutions: Research in Undergraduate Institutions (RUI) and Research Opportunity Awards (ROA) proposals should be submitted through the RUI/ROA solicitation ([https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5518](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5518)) during the window for the appropriate CHE Disciplinary Research Program. In addition to the requirements of the RUI program, proposals should follow the guidance in this solicitation.
- Proposals for Early-concept Grants for Exploratory Research (EAGER), Grants for Rapid Response Research (RAPID), Research Advanced by Interdisciplinary Science and Engineering (RAISE), and conferences can be submitted anytime after consultation with the cognizant NSF Program Officer.
- Supplemental funding requests to existing grants can be submitted anytime after consultation with the cognizant NSF Program Officer.

**Awards:** Standard or continuing grants; **Anticipated Funding Amount:** \$150,000,000

**Letters of Intent:** Not Required

**Proposal Submission Deadline:** September 01, 2020 - September 30, 2020

**Contacts:** For CLP: Catalina Achim, telephone: (703) 292-2048, email: [cachim@nsf.gov](mailto:cachim@nsf.gov)

- For CSDM-A: Colby A. Foss, telephone: (703) 292-5327, email: [cfoss@nsf.gov](mailto:cfoss@nsf.gov)
  - For CMI: Kelsey D. Cook, telephone: (703) 292-7490, email: [kcook@nsf.gov](mailto:kcook@nsf.gov)
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**Grant Program: Plant Biotic Interactions**

**Agency: National Science Foundation NSF 20-576**

**RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20576/nsf20576.htm>

**Brief Description:** The Plant Biotic Interactions (PBI) program supports research on the processes that mediate beneficial and antagonistic interactions between plants and their viral, bacterial, oomycete, fungal, plant, and invertebrate symbionts, pathogens and pests. This joint NSF/NIFA program supports projects focused on current and emerging model and non-model systems, and agriculturally relevant plants. The program's scope extends from fundamental mechanisms to translational efforts, with the latter seeking to put into agricultural practice insights gained from basic research on the mechanisms that govern

plant biotic interactions. Projects must be strongly justified in terms of fundamental biological processes and/or relevance to agriculture and may be purely fundamental or applied or include aspects of both perspectives. All types of symbiosis are appropriate, including commensalism, mutualism, parasitism, and host-pathogen interactions. Research may focus on the biology of the plant host, its pathogens, pests or symbionts, interactions among these, or on the function of plant-associated microbiomes.

**Awards:** Standard or continuing grants; **Anticipated Funding Amount:** \$18,500,000

**Letters of Intent:** Not Required

**Proposal Submission Deadline:** Proposals Accepted Anytime

**Contacts:** Michael L. Mishkind, Program Director, E12332, telephone: (703) 292-7190, email: [mmishkin@nsf.gov](mailto:mmishkin@nsf.gov)

- Ann Lichens-Park, USDA/NIFA National Program Leader, telephone: (202) 445-5483, email: [ann.park@usda.gov](mailto:ann.park@usda.gov)
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### **Grant Program: Centers for Chemical Innovation (CCI)**

**Agency: National Science Foundation NSF 20-574**

**RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20574/nsf20574.htm>

**Brief Description:** The Centers for Chemical Innovation (CCI) Program supports research centers focused on major, long-term fundamental chemical research challenges. CCIs that address these challenges will produce transformative research, lead to innovation, and attract broad scientific and public interest. CCIs are agile structures that can respond rapidly to emerging opportunities through enhanced collaborations. CCIs integrate research, innovation, education, broadening participation, and informal science communication.

The CCI Program is a two-phase program. Both phases are described in this solicitation. Phase I CCIs receive significant resources to develop the science, management and broader impacts of a major research center before requesting Phase II funding. Satisfactory progress in Phase I is required for Phase II applications; Phase I proposals funded in FY 2021 will seek Phase II funding in FY 2024.

The FY 2021 Phase I CCI competition is open to projects in all fields supported by the Division of Chemistry, and must have scientific focus and the potential for transformative impact in chemistry. NSF Chemistry particularly encourages fundamental chemistry projects related to one or more of NSF's Big Ideas, including Quantum Leap, Understanding the Rules of Life, and Harnessing the Data Revolution. Similarly, the Division of Chemistry encourages CCI projects aligned with chemistry aspects of other articulated budget priorities, including Advanced Manufacturing, Artificial Intelligence, Biotechnology, and Quantum Information Science.

**Awards:** Standard or continuing grants; **Anticipated Funding Amount:** \$9,400,000

**Letters of Intent:** Not Required

**Proposal Submission Deadline:**

- **Preliminary Proposal Due Date(s) (required)** (due by 5 p.m. submitter's local time):  
August 11, 2020 Phase I Preliminary Proposals
- **Full Proposal Deadline(s)** (due by 5 p.m. submitter's local time):  
January 14, 2021 Phase II Full Proposals  
February 17, 2021 Phase I Full Proposals, by invitation only

**Contacts:** Katharine J. Covert, telephone: (703) 292-4950, email: [kcovert@nsf.gov](mailto:kcovert@nsf.gov)

- Michelle M. Bushey, telephone: (703) 292-4938, email: [mbushey@nsf.gov](mailto:mbushey@nsf.gov)
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### **Grant Program: Industry-University Cooperative Research Centers Program (IUCRC)**

**Agency: National Science Foundation NSF 20-570**

**RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20570/nsf20570.htm>

**Brief Description:** The IUCRC program provides a structure for academic researchers to conduct fundamental, pre-competitive research of shared interest to industry and government organizations. These organizations pay membership fees to a consortium so that they can collectively envision and fund research, with at least 90% of Member funds allocated to the direct costs of these shared research projects. IUCRCs are formed around research areas of strategic interest to U.S. industry. Industry is defined very broadly to include companies (large and small), startups and non-profit organizations. Principal Investigators form a Center around emerging research topics of current research interest, in a pre-competitive space but with clear pathways to applied research and commercial development. Industry partners join at inception, as an existing Center grows or they inspire the creation of a new Center by recruiting university partners to leverage NSF support. Government agencies participate in IUCRCs as Members or by partnering directly with NSF at the strategic level.

Successful IUCRCs require:

- A capable research/management team with an entrepreneurial mindset;
- Universities, faculty, and students interested in engaging in research of interest to industry;
- A community of industry partners seeking pre-competitive, use-inspired research projects.

Each IUCRC is expected to grow and become independently sustainable by the end of the NSF support.

**Awards:** Standard or continuing grants; **Anticipated Funding Amount:** \$20,500,000

Individual award sizes (total costs):

\$20,000 for Planning Grants

\$150,000 per year for Phase I

\$100,000 per year for Phase II

\$150,000 per year for Phase II+

\$50,000 per year for Phase III

**Letters of Intent:** Not Required

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

July 07, 2020

September 16, 2020

March 10, 2021

**Full Proposal Submission Deadline:**

September 08, 2020

December 16, 2020

June 09, 2021

**Contacts:** Prakash G. Balan, IUCRC Program Director, Directorate for Engineering, telephone: (703) 292-5341, email: [pbalan@nsf.gov](mailto:pbalan@nsf.gov)

- Gregory Reed, IUCRC Program Director, Directorate for Engineering, telephone: (703) 292-2003, email: [gregreed@nsf.gov](mailto:gregreed@nsf.gov)

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**Grant Program: Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science (NSF INCLUDES)**

**Agency: National Science Foundation NSF 20-569**

**RFP Website:** <https://www.nsf.gov/pubs/2020/nsf20569/nsf20569.htm>

**Brief Description:** The NSF INCLUDES Big Idea is a comprehensive national initiative to enhance U.S. leadership in science, technology, engineering, and mathematics (STEM) discoveries and innovations focused on NSF's commitment to diversity, inclusion, and broadening participation in these fields. The vision of NSF INCLUDES is to catalyze the STEM enterprise to work collaboratively for inclusive change, resulting in a STEM workforce that reflects the population of the Nation. More specifically, NSF

INCLUDES seeks to improve collaborative efforts aimed at enhancing the preparation, increasing the participation, and ensuring the contributions of individuals from groups that have been historically underrepresented and underserved in the STEM enterprise such as African Americans, Alaska Natives, Hispanics, Native Americans, Native Hawaiians, Native Pacific Islanders, persons with disabilities, persons from economically disadvantaged backgrounds, and women and girls. Significant advancement in the inclusion of underrepresented groups in STEM will result in a new generation of STEM talent and leadership to secure our nation's future and long-term economic competitiveness.

The NSF INCLUDES National Network is composed of:

- Alliances,
- Design and Development Launch Pilots,
- Coordination Hub,
- Other NSF funded projects,
- Federal Coordination in STEM (FC-STEM) agencies,
- Scholars engaged in broadening participation research, and
- Organizations that support the development of talent from all sectors of society to build an inclusive STEM workforce.

**Awards:** Cooperative Agreement; **Anticipated Funding Amount:** \$2,000,000 to \$3,000,000

**Letters of Intent:** Required by **October 05, 2020**

**Limit on Number of Proposals per Organization:** An organization may serve as a lead organization on only one proposal. Proposals that exceed the organizational limit (beyond the first submission based on timestamp) will be returned without review. No exceptions will be made.

**Internal Submission Deadline of Institutional Review:** If you would intend to submit a proposal with NJIT as lead institution, please submit a pre-proposal to Atam Dhawan, Senior Vice Provost for Research at [dhawan@njit.edu](mailto:dhawan@njit.edu) with a copy to your respective department chair and college dean in the following format by **August 1, 2020**:

NSF Format Summary, Intellectual Merit, Broader Impact, List of Key Investigators and Participating Institutions with their specific roles, Biographical Sketch of the PI and Budget Summary.

**Proposal Submission Deadline:** January 26, 2021

**Contacts:** General inquiries may be addressed to:, phone: (703) 292-2315, email: [nsfincludes@nsf.gov](mailto:nsfincludes@nsf.gov)

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## **National Institutes of Health**

**Grant Program: NIH Director's Emergency Transformative Research Awards (R01 Clinical Trial Optional)**

**Agency: National Institutes of Health RFA-RM-20-020**

**Companion Funding Opportunities:**

**RFA-RM-20-013 [R01](#) NIH Director's Transformative Research Award**

**RFA-RM-20-014 [DP5](#) NIH Director's Early Independence Award**

**RFA-RM-20-021 [DP5](#) NIH Director's Emergency Early Independence Award**

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-RM-20-020.html>

**Brief Description:** This FOA solicits applications responsive only to the COVID-19 public health emergency through support of the [CARES Act](#). All other Transformative Research Award applications must be submitted in response to RFA-RM-20-013.

The [NIH Director's Transformative Research Award Program](#) supports individual scientists or groups of scientists proposing groundbreaking, exceptionally innovative, original, and/or unconventional research

with the potential to create new scientific paradigms, establish entirely new and improved clinical approaches, or develop transformative technologies. For the program to support the best possible researchers and research, applications are sought which reflect the full diversity of the nation's research workforce. Individuals from diverse backgrounds and from the full spectrum of eligible institutions in all geographic locations are strongly encouraged to apply to this Funding Opportunity Announcement. No preliminary data are required. Projects must clearly demonstrate, based on the strength of the logic, a compelling potential to produce a major impact on SARS-CoV-2 prevention, preparation, or response. The NIH Director's Transformative Research Award is a component of the [High-Risk, High-Reward Research \(HRHR\) Program](#) of the [NIH Common Fund](#).

**Awards:** Application budgets are not limited but must be commensurate with the scope of the proposed research. Due to the COVID-19 public health emergency, the Common Fund will dedicate funds provided by the [CARES Act](#) to support a total of 5-10 Transformative Research Awards (through this FOA) or [Early Independence Awards](#) (through RFA-RM-20-021)

**Letter of Intent:** Not Required

**Proposal Submission Deadline:** September 30, 2020

No late applications will be accepted for this Funding Opportunity Announcement.

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

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

**Contact:** Ravi Basavappa, Ph.D., Office of the Director (OD), Telephone: 301-435-7204

Email: [Transformative\\_Awards@mail.nih.gov](mailto:Transformative_Awards@mail.nih.gov)

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### **Grant Program: NIH Director's Emergency Early Independence Awards (DP5 Clinical Trial Optional)**

**Agency:** National Institutes of Health RFA-RM-20-021

**Companion Funding Opportunities:**

[RFA-RM-20-013 R01](#) NIH Director's Transformative Research Award

[RFA-RM-20-014 DP5](#) NIH Director's Early Independence Award

[RFA-RM-20-020 R01](#) NIH Director's Emergency Transformative Research Award

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-RM-20-021.html>

**Brief Description:** This FOA solicits applications responsive only to the COVID-19 public health emergency through support of the [CARES Act](#). All other Early Independence Award applications must be submitted in response to RFA-RM-20-014.

The [NIH Director's Early Independence Award](#) (a component of the [High-Risk, High-Reward Research program](#) of the [NIH Common Fund](#)) supports exceptional junior investigators who wish to pursue independent research soon after completion of their terminal doctoral degree or post-graduate clinical training, thereby forgoing the traditional post-doctoral training period and accelerating their entry into an independent research career. For the program to support the best possible researchers and research, applications are sought which reflect the full diversity of the research workforce. Individuals from diverse backgrounds and from the full spectrum of eligible institutions in all geographic locations are strongly encouraged to apply to this Funding Opportunity Announcement.

**Awards:** Awards will be for up to \$250,000 in direct costs per year, plus applicable Facilities and Administrative (F&A) costs.

**Letter of Intent:** August 4, 2020

**Proposal Submission Deadline:** September 4, 2020

No late applications will be accepted for this Funding Opportunity Announcement.



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

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

**Contact:** Becky Miller, Ph.D., Office of the Director (OD) Telephone: 301-594-9979

Email: [earlyindependence@od.nih.gov](mailto:earlyindependence@od.nih.gov)

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**Grant Program: NIH Director's New Innovator Award Program (DP2 Clinical Trial Optional)**

**Agency:** National Institutes of Health RFA-RM-20-012

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-RM-20-012.html>

**Brief Description:** The [NIH Director's New Innovator Award](#) addresses two important goals: stimulating highly innovative research and supporting promising Early Stage Investigators. Early Stage Investigators may have exceptionally innovative research ideas, but not the preliminary data required to fare well in the traditional NIH peer review system. As part of NIH's commitment to increasing opportunities for Early Stage Investigators, it has created the NIH Director's New Innovator Award to support outstandingly creative Early Stage Investigators who propose highly innovative research projects with the potential for unusually high impact. This award complements ongoing efforts by the NIH and its Institutes and Centers to fund Early Stage Investigators through R01 grants and other mechanisms. The definition of Early Stage Investigator is provided [here](#).

**Awards:** Awards are multi-year funded with all funds disbursed in the first year of the award. Awards will be up to \$1,500,000 in direct costs (the equivalent of \$300,000 in Direct Costs each year for five years) plus applicable Facilities and Administrative (F&A) costs to be determined at the time of award.

**Letter of Intent:** Not Required

**Proposal Submission Deadline:** August 21, 2020

No late applications will be accepted for this Funding Opportunity Announcement. All applications are due by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on the listed date(s).

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

**Contact:** Ravi Basavappa, Ph.D., Office of the Director (OD), Telephone: 301-435-7204

Email: [Transformative\\_Awards@mail.nih.gov](mailto:Transformative_Awards@mail.nih.gov)

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**Grant Program: NIH Director's Pioneer Award Program (DP1 Clinical Trial Optional)**

**Agency:** National Institutes of Health RFA-RM-20-011

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-RM-20-011.html>

**Brief Description:** The [NIH Director's Pioneer Award](#) supports individual scientists of exceptional creativity who propose highly innovative and broadly impactful research towards the ultimate goal of enhancing human health.

In the Pioneer Award program, emphases are on the qualities of the investigator, the innovativeness, and potential impact of the proposed research. Preliminary data and detailed experimental plans are not requested. To be considered pioneering, the proposed research must reflect substantially different ideas from those being pursued in the investigator's current research program or elsewhere. The Pioneer Award is not intended to expand a current research program into the area of the proposed project. While the research direction may rely on the applicant's prior work and expertise as its foundation, it cannot be an obvious extension or scale-up of a current research enterprise. Rather, the proposed project must reflect a fundamental new insight which may involve exceptionally innovative approaches and/or



radically unconventional hypotheses. Applications for projects that are straightforward extensions of ongoing research should not be submitted.

**Awards:** Awards will be for \$700,000 in direct costs per year, plus applicable Facilities and Administrative (F&A) costs.

**Letter of Intent:** Not Required

**Proposal Submission Deadline:** September 11, 2020.

No late applications will be accepted for this Funding Opportunity Announcement.

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

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

**Contact:** Ravi Basavappa, Ph.D., Office of the Director (OD), Telephone: 301-435-7204

Email: [Transformative\\_Awards@mail.nih.gov](mailto:Transformative_Awards@mail.nih.gov)

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### **Grant Program: Research Program Award (R35 Clinical Trial Optional)**

**Agency:** National Institutes of Health RFA-NS-20-030

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-20-030.html>

**Brief Description:** The NINDS RPA is a different approach that aims to support the NINDS-related research of an investigator's laboratory or research group for a sustained period. The award is intended to increase funding stability, reduce the time investigators spend writing grant applications, and facilitate a more flexible research environment. This should allow for increased time for investigators to be directly involved in the research in their laboratories, fostering more creative and/or long-term research goals, enabling more engagement with trainees, and assuring a high level of rigor and attention to experimental design – all of which contribute to advancing the [mission of NINDS](#).

**Eligibility:** Eligibility to apply through this FOA is limited to individuals who have been funded continuously as PD/PI in each of the past five consecutive years at the time of application submission. Funding must include one of the following types of active NINDS grants in each of the past 5 years (that is FY2016-2020), with no more than one of those years in a no cost extension: R00, R01, R37, R56, DP1, DP2.

**Awards:** Applicants may request up to a maximum of \$750,000 direct costs per year.

**Letter of Intent:** July 1, 2020

**Proposal Submission Deadline:** July 31, 2020

No late applications will be accepted for this Funding Opportunity Announcement.

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.

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### **Grant Program: NIH Small Research Grant Program (Parent R03 Clinical Trial Not Allowed)**

**Agency:** National Institutes of Health PA-20-200

**RFP Website:** <https://grants.nih.gov/grants/guide/pa-files/PA-20-200.html>

**Brief Description:** The NIH Small Research Grant Program supports discrete, well-defined projects that realistically can be completed in two years and that require limited levels of funding. This program supports different types of projects including, but not limited to, the following:

- Pilot or feasibility studies;
- Secondary analysis of existing data;

- Small, self-contained research projects;
- Development of research methodology; and
- Development of new research technology

**Awards:** Application budgets are limited to \$50,000 in direct costs per year. The total project period may not exceed two years.

**Letter of Intent:** Not Required

**Proposal Submission Deadline:** [Standard dates](#) apply. The first standard due date for this FOA is June 16, 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.

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**Grant Program: NIH Exploratory/Developmental Research Grant Program (Parent R21 Clinical Trial Not Allowed)**

**Agency: National Institutes of Health PA-20-195**

**RFP Website:** <https://grants.nih.gov/grants/guide/pa-files/PA-20-195.html>

**Brief Description:** This program is intended to encourage new exploratory and developmental research projects. For example, such projects could assess the feasibility of a novel area of investigation or a new experimental system that has the potential to enhance health-related research. Another example could include the unique and innovative use of an existing methodology to explore a new scientific area. These studies may involve considerable risk but may lead to a breakthrough in a particular area, or to the development of novel techniques, agents, methodologies, models, or applications that could have a major impact on a field of biomedical, behavioral, or clinical research.

Applications for Exploratory/Developmental Research Grant awards should include projects distinct from those supported through the traditional R01 activity code. For example, long-term projects, or projects designed to increase knowledge in a well-established area, are not appropriate for this FOA. Applications submitted to this FOA should be exploratory and novel. These studies should break new ground or extend previous discoveries toward new directions or applications. Projects of limited cost or scope that use widely accepted approaches and methods within well-established fields are better suited for the [NIH Small Research Grant Program](#).

**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

**Proposal Submission Deadline:** [Standard dates](#) apply. The first standard due date for this FOA is June 16, 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.

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**Grant Program: NIH Research Project Grant (Parent R01 Clinical Trial Not Allowed)**

**Agency: National Institutes of Health PA-20-185**

**RFP Website:** <https://grants.nih.gov/grants/guide/pa-files/PA-20-185.html>

**Brief Description:** The NIH Research Project Grant supports a discrete, specified, circumscribed project in scientific areas that represent the investigators' specific interests and competencies and that fall within the mission of the participating NIH Institutes and Centers (ICs). The R01 is the original, and historically the oldest, grant mechanism used by the NIH to support health-related research and development.

Research grant applications are assigned to participating ICs based on receipt and referral guidelines and applications may be assigned to multiple participating ICs with related research interests. Applicants are encouraged to identify a participating IC that supports their area of research via the [R01 IC-Specific Scientific Interests and Contact](#) website and contact Scientific/Research staff from relevant ICs to inquire about their interest in supporting the proposed research project.

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

**Letter of Intent:** Not Required

**Proposal Submission Deadline:** [Standard dates](#) apply. The first standard due date for this FOA is June 5, 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.

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

### **Grant Program: Vision Research Program, Investigator-Initiated Research Award (IIRA) Translational Research Award (TRA)**

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

**Website:** <https://cdmrp.army.mil/funding/vrp>

**Brief Description:** The focus areas for FY20 program includes:

Eye injury or visual dysfunction as related to a military-relevant traumatic event. Examples of military-relevant trauma may include, but are not limited to: ○ Blast, penetrating, blunt, thermal, or chemical trauma ○ Trauma caused by directed energy weapons such as laser, high-power microwaves, and particle beams • Diagnosis, stabilization, and treatment of eye injuries in austere environments and prolonged field care settings • Restoration of visual function after trauma-related vision loss or severe visual impairment. Applications shall include at least three but no more than five distinct research projects that together form a concerted and synergistic effort to address the overarching challenge. Each project, as well as the overall effort, must align with one or more of the FY20 VRP Focus Areas.

**Awards:** Estimated Total Program Funding: \$7,500,000

**Proposal Deadline:** Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), July 28, 2020 • Invitation to Submit an Application: September 2020 • Application Submission Deadline: 11:59 p.m. ET, November 18, 2020

**Contact Information:** CDMRP Help Desk; Phone: 301-682-5507 Email: [help@eBRAP.org](mailto:help@eBRAP.org)

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### **Grant Program: Peer Reviewed Alzheimer's Research Program (PRARP)**

**Agency:** Department of Defense Dept. of the Army – USAMRAA

**W81XWH-20-PRARP-RPA DoD Peer Reviewed Alzheimer's, Research Partnership Award**

**W81XWH-20-PRARP-CSRA DoD Peer Reviewed Alzheimer's, Convergence Science Research Award**

**Website:** <https://cdmrp.army.mil/funding/prarp>

**Brief Description:** The Overarching Challenges below are specific to the FY20 PRARP RPA. Applicants to the FY20 PRARP RPA must address and select one of the Overarching Challenges below: • Foundational Research: Research to examine the interrelationship between TBI and subsequent

AD/ADRD for the military, Veteran, and civilian communities, and to translate these findings. • Paucity of Clinical Studies: The paucity of clinical studies to examine the interrelationship between TBI and subsequent AD/ADRD for the military, Veteran, and civilian communities. • Diagnostics and Prognostics: The need for technologies, tests, surveys, questionnaires, devices, biomarkers, or analyses to detect TBI sequelae for AD/ADRD utilizing new and/or pre-existing datasets. • Epidemiology: The paucity of epidemiological research to examine the interrelationship between TBI, risk and resiliency factors, and subsequent AD/ADRD for the military, Veteran, and civilian communities. • Quality of Life: The need for technologies, assessments, interventions, or devices to benefit individuals living with the common symptoms of TBI and AD/ADRD. • Family and Care Support: The need for technologies, assessments, interventions, or devices that enhance the lives of those providing care and families of individuals living with the common symptoms of TBI and/or AD/ADRD.

**Awards:** Estimated Total Program Funding: \$15,000,000

**Proposal Deadline:** Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), June 22, 2020 • Application Submission Deadline: 11:59 p.m. ET, July 21, 2020

**Contact Information:** CDMRP Help Desk; Phone: 301-682-5507 Email: [help@eBRAP.org](mailto:help@eBRAP.org)

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**Grant Program: FY20 Epilepsy Research Program (ERP)**

**Agency: Department of Defense Dept. of the Army – USAMRAA W81XWH-20-ERP-IDA DoD Epilepsy, Idea Development Award**

**Website:** <https://cdmrp.army.mil/funding/erp>

**Brief Description:** The intent of the FY20 ERP IDA is to solicit novel, innovative research to understand the magnitude and underlying mechanisms of PTE related to the ERP’s mission (see Section II.A, Program Description). The work should innovatively challenge existing research paradigms or exhibit high levels of creativity within the contexts of the ERP’s mission and vision. The application should also demonstrate the study team’s experience in PTE research, as appropriate. The innovation and impact for the FY20 ERP IDA are expected to benefit the military, Veteran, and civilian communities. Applications must be both innovation- and impact-based.

**Awards:** Estimated Total Program Funding: \$3,360,000

**Proposal Deadline:** Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), June 22, 2020 • Application Submission Deadline: 11:59 p.m. ET, July 21, 2020

**Contact Information:** CDMRP Help Desk; Phone: 301-682-5507 Email: [help@eBRAP.org](mailto:help@eBRAP.org)

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**Grant Program: DoD Hearing Restoration Focused Research Award**

**Agency: Department of Defense Dept. of the Army – USAMRAA W81XWH-20-HRRP-FRA**

**Website:** <https://cdmrp.army.mil/funding/pa/FY20-HRRP-FRA.pdf>

**Brief Description:** To meet the intent of the award mechanism, all applications to the FY20 HRRP FRA must address research in one or more of the following Focus Areas: • Accelerate translation of biological regeneration/repair mechanisms into therapies that treat auditory system injury and restore auditory function. For example, but not limited to: ○ Hair cell regeneration/repair/recovery ○ Neural regeneration/repair/recovery ○ Treatment for synaptopathy and hidden hearing loss • Diagnostic tests that help differentiate sensory, neural, synaptic, and central processing disorders, that may inform applicability and outcomes for current or future hearing restoration therapeutics. • Develop reliable in-vitro human models to facilitate the understanding, derivation, and characterization of human auditory cells, and/or to facilitate the evaluation of hearing restoration therapies. • Develop and/or validate techniques/methods

beyond the audiogram to diagnose acute auditory system injury in austere or remote environments. For example, but not limited to, simple and rapid assessments that are compatible with portable platforms.

**Awards:** Estimated Total Program Funding: \$10,000,000

**Proposal Deadline:** Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), 14 July, 2020 • Invitation to Submit an Application: August 2020 • Application Submission Deadline: 11:59 p.m. ET, 3 November, 2020

**Contact Information:** CDMRP Help Desk; Phone: 301-682-5507 Email: [help@eBRAP.org](mailto:help@eBRAP.org)

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## **Grant Program: FY20 Funding Opportunity Announcement (FOA) for the Department of Navy (DoN) Science, Technology, Engineering & Mathematics (STEM), Education and Workforce Program**

**Agency:** Department of Defense Office of Naval Research N00014-20-S-F005

**Website:** <https://www.onr.navy.mil/en/work-with-us/funding-opportunities>

**Brief Description:** This announcement explicitly encourages projects that improve the capacity of education systems and communities to create impactful STEM educational experiences for students and workers. Submissions are encouraged to consider including active learning approaches and incorporating 21st century skill development. Projects must aim to increase student and worker engagement in STEM and enhance people with needed Naval STEM capabilities. ONR encourages applications to utilize current STEM educational research for informing project design and advancing our understanding of how and why people choose STEM careers and opportunities of Naval relevance. While this announcement is relevant for any stage of the STEM educational system, funding efforts will be targeted primarily toward projects addressing the below communities or any combination of these communities: • Secondary education communities; • Post-Secondary communities; • Informal science communities; • Current Naval STEM workforce communities.

**Awards:** Various

**Proposal Deadline:** White Paper Inquiries and Questions 10 June 2020 (Wednesday) White Papers must be received between 04 May 2020 (Monday) and 12 June 2020 (Friday) at 5:00 PM Eastern Time Application Inquiries and Questions 14 August 2020 (Friday) Applications must be received no later than 28 August 2020 (Friday) at 11:59 PM Eastern Time

**Contact Information:** Dr. Michael Simpson Director of Education and Workforce/Naval STEM Office of Naval Research 875 North Randolph Street Arlington VA 22203-1995 Email: [ONR\\_STEM@navy.mil](mailto:ONR_STEM@navy.mil)

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## **Department of Transportation**

### **Grant Program: UTC PROGRAM TIER 1 COMPETITION 2020**

**Agency:** Department of Transportation UTCTIER1COMP2020

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

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

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



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

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

**Letter of Intent:** April 29, 2020

**Proposal Deadline:** May 29, 2020

**Contact Information:** Amy Stearns University Program Specialist 202-366-4957 [amy.stearns@dot.gov](mailto:amy.stearns@dot.gov)

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### **Department of Agriculture:**

#### **Grant Program: Distance Learning and Telemedicine Grants**

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

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

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

**Awards:** Approximately \$25 million, in addition to any available funds not awarded from Window 1, is available for funding opportunities under this FOA.

**Proposal Deadline:** July 13, 2020

**Contact Information:** [dltinfo@usda.gov](mailto:dltinfo@usda.gov); (202) 720-0800

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#### **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](mailto:lakshmi.matukumalli@usda.gov) (816)-926-1189

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

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

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

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

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

**Submission Deadline:** September 30, 2020

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

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**Department of Labor**

**Grant Program: Youth Apprenticeship Readiness Grant Program**

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

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

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

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

**Proposal Deadline:** May 06, 2020

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

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## EPA

### **Grant Program: Early Career: Assessment Tools for Biotechnology Products**

#### **Assessment Tools for Biotechnology Products (EPA-G2020-STAR-C1)**

**Agency: Environmental Protection Agency EPA-G2020-STAR-C2**

**Website:** <https://www.epa.gov/research-grants/assessment-tools-biotechnology-products>

**Brief Description:** The United States Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing research to support the development of improved science-based human health and environmental risk assessments of new biotechnology products, including those developed through synthetic biology, genome editing, and metabolic engineering.

The Science to Achieve Results (STAR) Program's goal is to stimulate and support scientific and engineering research that advances EPA's mission to protect human health and the environment. It is a competitive, peerreviewed, extramural research program that provides access to the nation's best scientists and engineers in academic and other nonprofit research institutions. STAR funds research on the environmental and public health effects of air quality, environmental changes, water quality and quantity, hazardous waste, toxic substances, and pesticides. In addition to regular awards, this solicitation includes the opportunity for early career awards. The purpose of the early career award is to fund research projects smaller in scope and budget by early career PIs.

**Award:** Estimated Number of Awards: Approximately 7 awards, 4 regular and 3 early career awards

Anticipated Funding Amount: Approximately \$4.4 million total for all awards Potential Funding per

Award: Up to a total of \$760,000 for regular awards, and up to a total of \$453,333 for early career awards, including direct and indirect costs, with a maximum duration of 3 years.

**Submission Deadline:** Solicitation Closing Date: July 15, 2020:11:59:59 pm Eastern Time

**Contact:** Technical Contact: Barbara Klieforth; phone: 202-564-7723; email: [klieforth.barbara@epa.gov](mailto:klieforth.barbara@epa.gov)

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## Department of Energy

### **Grant Program: FY20 Advanced Manufacturing Office Multi-Topic FOA**

**Agency: Department of Energy Office of Science DE-FOA-0002252**

**Website:** <https://eere-exchange.energy.gov/#FoaId96fd81da-41e6-4d21-b5b9-06252b707825>

**Brief Description:** AMO supports innovative, advanced-manufacturing applied research and development (R&D) projects that focus on specific, high-impact manufacturing technology and process challenges. AMO invests in foundational, energy-related, advanced-manufacturing processes (where energy costs are a determinant of competitive manufacturing) and broadly applicable platform technologies (the enabling base upon which other systems and applications can be developed). The competitively selected projects from this FOA will focus on developing next-generation manufacturing material, information, and process technologies that improve energy efficiency in energy-intensive and energy-dependent processes, and facilitate the transition of emerging, cost-competitive energy technologies to domestic production.

**Awards:** Estimated Total Program Funding: \$67,000,000

**Letter of Intent:** Concept Paper Submission Deadline: 6/25/2020 5:00 PM ET

**Submission Deadline:** Full Application Submission Deadline: 8/26/2020 5:00 PM ET

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

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**Grant Program: FY2020 AMO Critical Materials FOA: Next-Generation Technologies and Field Validation**

**Agency: Department of Energy DE-FOA-0002322**

**Website:** <https://eere-exchange.energy.gov/#FoaIdf92d9b97-2d02-4e2a-8b8a-76cba3a2e114>

**Brief Description:** Through this funding opportunity announcement (FOA), the Advanced Manufacturing Office (AMO) seeks to address gaps in domestic supply chains for key critical materials for clean energy technologies to:

- Enable domestic manufacturing of high energy efficiency and high energy density clean energy technologies;
- Diversify the domestic supply of critical materials; and
- Validate and demonstrate domestic innovative technologies to support the transition to U.S. manufacturing.

This will be accomplished through development of alternative next-generation technologies and field validation and demonstration of technologies that improve extraction, separation and processing. Key critical materials for energy technologies as defined in this FOA include: rare earth elements: neodymium (Nd), praseodymium (Pr), dysprosium (Dy), terbium (Tb), and samarium (Sm) used in permanent magnets for electric vehicle motors, wind turbine generators and high temperature applications; cobalt (Co) used in batteries used in electric vehicles (EVs) and grid storage and high temperature permanent magnets; and lithium (Li), manganese (Mn) and natural graphite used in batteries (see table below). This FOA seeks to leverage the technology and capabilities developed at the Critical Materials Institute (CMI), an Energy Innovation Hub led by Ames Laboratory and managed by DOE.

**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:** See below.

**Submission Deadline:** Concept Paper Submission Deadline: 6/25/2020 5:00 PM ET

- Full Application Submission Deadline: 8/11/2020 5:00 PM ET

**Contact:** [EERE-ExchangeSupport@hq.doe.gov](mailto:EERE-ExchangeSupport@hq.doe.gov) For questions about the Exchange System or submitting an application through Exchange. Include FOA name and number in subject line.

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

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

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

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

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

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

**Letter of Intent:** TBD

**Submission Deadline:** TBD

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

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**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](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.

**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 301-903-9938  
[william.spotz@science.doe.gov](mailto:william.spotz@science.doe.gov)

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**NASA**

**Grant Program: ROSES 2020: Astrophysics Pioneers**

**Agency:** NASA NNH20ZDA001N-PIONEERS

**Website:** <https://nspires.nasaprs.com/external/solicitations/summary.do?sollId=%7B0E11C629-2FB1-CF8B-15AA-744BB8CC5D86%7D&path=&method=init>

**Brief Description:** This program element solicits proposals for "Pioneers", Astrophysics space and sub-orbital science investigations that are greater in cost, scope and capability than what is possible within the Astrophysics Research and Analysis (APRA) program (D.3 of ROSES-2020) but are smaller in cost than what is possible within the Astrophysics Explorers Mission of Opportunity (MO) program (e.g., PEA O of SALMON-3 for the 2019 opportunity). Investigations are solicited using platforms that include CubeSats (including constellations), SmallSats, Major Balloon Missions, and International Space Station (ISS)-attached payloads. Technology development and maturation within the proposed project is allowed, but the primary review criterion for selection is the merit of the proposed science investigation. All proposed investigations must be responsive to the science goals of the Astrophysics Division, as described in the 2014 NASA Science Mission Directorate Science Plan and the 2018 NASA Strategic Plan.

**Awards:** \$20M PI cost, over life cycle (real year dollars).

**Proposal Deadline:** June 15, 2020

**Contact:** Samantha Fonder Launch Services Program Executive Phone: 321-607-2286 Email:

[Samantha.fonder@nasa.gov](mailto:Samantha.fonder@nasa.gov)

Michael Garcia Astrophysics Division NASA Headquarters Washington, DC 20546-0001 Telephone: (202) 358-1053 Email: [michael.r.garcia@nasa.gov](mailto:michael.r.garcia@nasa.gov)

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

**Agency: NASA NNH20ZDA001N-NIP**

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

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

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

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

**Proposal Deadline:** September 20, 2021

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

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

**Agency: NASA NNH20ZDA001N-SWO2R**

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

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

The primary goal of this solicitation is to support research to improve numerical models and/or data utilization techniques that could advance forecasting and/or specification capabilities and which



could also lead to improved scientific understanding. Effective utilization of available data is encouraged. Employing advanced techniques for data assimilation, ensemble, and/or machine-learning is also encouraged. Improved neutral density specification and forecast capabilities could include, for example, effects of forcing from below, effects of variations in solar EUV flux, effects of heating from particle precipitation and joule dissipation, assimilation of satellite drag data, and regional variations in density. Improved neutral density specification and forecasts can support numerous applications, including satellite drag and orbit propagation, meeting Orbital Debris Mitigation Standard Practices (ODMSP), and planning satellite megaconstellation operations. Improved forecasting and specification of the ionosphere could include the dynamics of total electron content, ionospheric scintillation, and electron density structure.

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

**Step 1 Proposal:** December 16, 2020

**Step 2 Proposal Deadline:** February 17, 2021

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

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### **Grant Program: ROSES 2020: Heliophysics Supporting Research**

**Agency:** NASA NNH20ZDA001N-HSR

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

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

**Awards:** Various; Available funding: \$6.500.000

**Notices of Intent Due:** N/A

**Proposal Deadline:** November 18, 2020

**Contact:** Patrick Koehn; Email: [patrick.koehn@nasa.gov](mailto:patrick.koehn@nasa.gov)

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### **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](mailto:Ekaterina.M.Verner@nasa.gov)

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## **National Endowment of Humanities**

### **Grant Program: Research and Development**

**Agency:** National Endowment for the Humanities 20200515-PR

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

**Brief Description:** The Research and Development program supports projects that address major challenges in preserving or providing access to humanities collections and resources. These challenges include the need to find better ways to preserve materials of critical importance to the nation's cultural heritage—from fragile artifacts and manuscripts to analog recordings and digital assets subject to technological obsolescence—and to develop advanced modes of organizing, searching, discovering, and using such materials. This program supports projects at all stages of development, from early planning and stand-alone studies, to advanced implementation. Research and Development projects contribute to the evolving and expanding body of knowledge for heritage practitioners, and for that reason, outcomes may take many forms. Projects may produce any combination of laboratory datasets, guidelines for standards, open access software tools, workflow and equipment specifications, widely used metadata schema, or other products. Research and Development supports work on the entire range of humanities collection types including, but not limited to, moving image and sound recordings, archaeological artifacts, born digital and time-based media, rare books and manuscripts, material culture, and art.

**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](mailto:fellowships@neh.gov)

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## **Private Foundations**

### **Brain Health Foundation**

#### **Grant Program: 2021 Scientific Innovations Award**

**Agency:** Brain Research Foundation

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

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

and brain function in health and disease. **Current major NIH or other peer-reviewed funding is preferred but evidence of such funding in the past three years is essential.**

**Awards:** The grant period is for two years totaling \$150,000.

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

**Contact:** Please contact Richard Rosenberg at [rmr@njit.edu](mailto:rmr@njit.edu) if you are interested in submitting a proposal.

### **American Heart Foundation Notification**

**Grant Program: American Heart Foundation (AHA) Awards**

**Agency: American Heart Foundation**

**Website:** [Grants@Heart](#)

**Brief Description:** American Heart Association will retire [Grants@Heart](#) and begin to use ProposalCentral for application, peer review and award management. **Grants@Heart will be taken offline at noon on Thursday, May 28**, so that data can be migrated to ProposalCentral.

**ACTION:** Retrieve information from [Grants@Heart](#) that will not transfer to ProposalCentral by noon on Thursday, May 28.

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### **Streamlyne Question of the Week**

**Question:** How can I update my eRA Commons ID for all future NIH proposals?

**Answer:** Go to Main Menu>Setting>Person Extended Attributes, click "Edit", enter it under "eRA Commons User Name" and submit the change/update.

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

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### **Proposal Submission and Streamlyne Information Internal Timeline for Successful and Timely Proposal Submission**

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

The NJIT Proposal Submission Guidelines and Policy posted on the website <https://research.njit.edu/proposal-submission-guidelines> provides the expected institutional timeline for proposal submission. Streamlyne User Manuals are posted on <https://research.njit.edu/streamlyne>. For contact information on proposal submission, pre-award services and post-award grant management, please visit research website <https://research.njit.edu/researchers> and <https://research.njit.edu/contact>.

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## Coronavirus (COVID-19) Information on Sponsored Research Impact

Updated May 17, 2020

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

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

- COGR Resource Information [\*Institutional and Agency Responses to COVID-19 and Additional Resources\*](#) (Updated Regularly)
- [COGR's Federal Agency Guidance Matrix \(XLS\) \(Updated\)](#) (Revised May 14, 2020)
- [FAQ Addendum #1: NIH Specific FAQs \(Updated\)](#) (Revised April 13, 2020)
- [FAQ Addendum #2: Costing and Financial Compliance FAQs \(Updated\)](#) (Revised May 1, 2020)
- [FAQ Addendum #3: Research Ethics and Compliance Human Subjects FAQ \(Version 1.0\)](#) (Revised May 4, 2020)
- [FAQ Addendum #4: Contracts and Grants Administration FAQs \(Version 1.0\)](#) (Revised May 8, 2020)
- [FAQs Regarding COVID-19's Impact to Federal Awards \(V.2.2\)](#) (Revised April 8, 2020)
- [Multi Association Request to OMB on Expansion of M-20-11 for Administrative Relief](#) (Revised March 18, 2020)

### Office of Management and Budget

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

### National Institutes of Health (NIH)

Information on research impact:

- [Coronavirus Disease 2019 \(COVID-19\): Information for NIH Applicants and Recipients](#)
- [https://grants.nih.gov/grants/natural\\_disasters/corona-virus.htm](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](#)
- [COVID-19 Pandemic Contingency Planning for Animal Care and Use Programs](#)
- [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](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](#)



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