

NJIT Research Newsletter

Issue: ORN-2020-22

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

NJIT Pandemic Recovery Plan Research Continuity and Phased Recovery Plan Guidelines and Protocols: Phase-1 Minimal Research Operations

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

NJIT faculty, staff, and students at research facilities must follow the specific social distancing and safety protocols including the use of personnel protective equipment (PPE) as required by the institutional, state and federal guidelines in the respective phase of the research continuity plan. State and national information regarding current conditions can be found at:

- New Jersey's COVID-19 information hub: <https://covid19.nj.gov/index.html>

- White House Plan for Opening up America Again: <https://www.whitehouse.gov/wp-content/uploads/2020/04/Guidelines-for-Opening-Up-America-Again.pdf>
- CDC guidelines on “Symptoms of Coronavirus”: <https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>
- CDC guidelines on “Use of Cloth Face Coverings to Help Slow the Spread of COVID-19”: <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/diy-cloth-face-coverings.html>

Faculty requesting Phase-1 minimal research operations as defined below should submit the PRO-1 approval form (posted on the research website <https://research.njit.edu/njit-pandemic-recovery-plan>) through the department chair and college dean to the office of research at dhawan@njit.edu.

Recovery Phase-1 Protocol: Minimal research operations approved through chairs, deans and senior vice provost for research to pursue time-sensitive priority research such as projects related to COVID-19 response; approved Essential Research Operation (ERO) plans in Phase-0; long-term research experiments with cell-lines, animals, and human subjects that were already underway before Phase-0; grants and contracts expiring within six months; submission of proposals in response to special solicitations (Requests for Proposals); and projects involving students with graduation requirements.

- Requests for projects considered time-sensitive should be directed to departmental chairs. The dean and senior vice provost for research will provide guidance as needed.
- All research operations at NJIT facilities in this phase must follow the highest possible level of social distancing implemented.
- Research that can be conducted remotely should be continued to the extent possible.

The guidelines on implementation of Phase-1 research recovery plan are posted on the website <https://research.njit.edu/njit-pandemic-recovery-plan>.

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 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 should discuss the current situation with their counterparts to determine if the COVID-19 disruption will require a modification to the existing agreements. If so, please contact Justin Samolewicz at Justin.m.samolewicz@njit.edu to discuss next steps.

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

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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: Enhancing Science, Technology, EnginEering, and Math Educational Diversity (ESTEEMED) Research Education Experiences (R25); 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: Naval Air Warfare Center Aircraft Division (NAWCAD) Office-Wide; DoD Duchenne Muscular Dystrophy, Idea Development Award; Vision Research Program; 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: Supply Chains Tracing Project

EPA: Assessment Tools for Biotechnology Products

Department of Energy: Small-Scale Solid Oxide Fuel Cell Systems and Hybrid Electrolyzer Technology Development; Advanced Manufacturing Office Multi-Topic FOA; Next-Generation Technologies and Field Validation

NASA: ROSES 2020: NASA Innovative Advanced Concepts (NIAC) Phase I; 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: Humanities Initiatives; Public Humanities Projects

Private Foundations: Brain Health Foundation: 2021 Scientific Innovations Award

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Recent Research Grant and Contract Awards

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

PI: Edward Dreizen (PI) and Murat Guvendiren (Co-PI)

Department: Chemical and Material Engineering

Grant/Contract Project Title: Additively Manufactured Energetic Components with High Solids Loading

Funding Agency: U.S. Department of Defense

Duration: 05/29/20-03/20/23

PI: Hao Chen (PI), Edgardo Farinas (Co-PI), Yong Kim (Co-PI)

Department: Chemistry and Environmental Sciences

Grant/Contract Project Title: Development of Electrochemistry-Assisted Quantitative Mass Spectrometry for Proteomics Research

Funding Agency: NIH

Duration: 06/01/20-05/31/23

PI: Ozzie Williams (PI)

Department: CPCP

Grant/Contract Project Title: GEAR UP

Funding Agency: NJDOH

Duration: 08/23/19-08/22/20

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In the News...

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

Exploring the Frontiers of Innovation to Tackle Microbial Threats: A [National Academies workshop](#) examined major advances in scientific, technological, and social innovations against microbial threats. Presentations and discussions explored: "detection and diagnostic tools that empower early treatment and other beneficial steps; methods and tools such as predictive modeling, digital platforms, and precision public health, and how they might be best used; methods that account for social and behavioral factors related to microbial threats; communication and structural strategies to improve access to and use of behavior change for preparedness and response; data and modeling insights for practitioners in diverse settings, particularly at the community level; models and indicators that measure the extent to which innovations are successful; and ways to stimulate meaningful collaboration and communication among multilateral organizations, national governments, the private sector, and civil society." [Read the report.](#)

Bill to Establish a New Directorate for Technology at NSF: The [Association of American Universities](#) and the [Association of Public and Land Grant Universities](#) issued statements of support for the [\\$100 billion measure](#) to create a new advanced-technology directorate within the National Science Foundation. Praise came as well from MIT President Rafael Reif, who tells [Science's Jeff Mervis](#): "The legislation would provide the visible, focused, and sustained funding and approach that the U.S. urgently needs to meet the challenge posed by China's increasing capabilities." The lone critic to emerge in press accounts so far is engineer Arden Bement, NSF director from 2004 to 2010, who says it would "be a mistake for a technology directorate at NSF to serve as an offset to private funding for commercial innovation and entrepreneurship." Applied technology R&D should be funded by mission agencies, he says. But his view is not shared by France Córdova, who led the agency until March 31. "I look at it as just the opposite," she tells the American Institute of Physics's [FYI bulletin](#). There's now "more seamless integration of the very basic fundamental research and what people have called the use-inspired and more applied research.". More information is posted on <https://www.congress.gov/bill/116th-congress/senate-bill/3832>.

NIH Request For Information (RFI): DIGITAL HEALTH SOLUTIONS for COVID-19: The National Institute of Biomedical Imaging and Bioengineering (NIBIB) and the National Cancer Institute (NCI) of the National Institutes of Health (NIH) require services to develop digital health solutions to address the COVID-19 pandemic and enable new research into using digital health technologies to advance the public health response. The digital health solutions will facilitate approaches that leverage multiple data sources, privacy-preserving technologies, and computational tools for managing population health and individuals' lives during the COVID-19 pandemic. Such management could include, for example, assessing the readiness of individuals to return to work, calculating the risk of possible SARS-CoV-2 infection, identifying and tracing contacts of COVID-19 cases, monitoring the health status of infected individuals, or linking individuals to clinical trials of therapies or preventative interventions for COVID-19. Particular focus includes digital health solutions for traditionally underrepresented populations as well as those with diminished access to healthcare resources. Please see the website for [request for information](#), Novel digital health solutions have the potential to improve care, understanding of health outcomes, and risk factors related to the COVID-19 pandemic.”

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Webinar and Events

Event: Webinar: Write Effective Survey Questions to Get Useful Data

Sponsor: Libraray Works

When: June 18, 2020 2.00 PM – 3.00 PM

Website: <https://register.gotowebinar.com/register/1113442846494774542>

Brief Description: Doing a “simple survey” isn’t all that simple. If you don’t know exactly how to write and ask the questions, you may find out later that you didn’t get any actionable data. Marketer and wordsmith Kathy Dempsey can prepare you to avoid survey pitfalls. Sign up for this webinar so you’ll understand the tactics: ⌘ -Every word you choose matters. ⌘ -Beware open-ended questions. ⌘ -Always avoid library lingo. ⌘ -Never ask about “interest.” ⌘ -Ask the same question more than once. ⌘ -Write, test, tweak, repeat. ⌘ -What makes people take surveys? This webinar will also touch on how to distribute surveys to get good response rates.

To Join the Webinar: Register at above URL.

Event: Partnerships for Innovation Webinars

Sponsor: NSF

When: 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

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 June 11 webinar](#)

[Register for the June 25 webinar](#)

[Register for the July 2 webinar](#)

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/96bbedc9bf484da09118aa39a54a6ada/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.

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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 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
- Brandi Schottel, CBET, telephone: (703) 292-4798, email: NSFDFG@nsf.gov
 - Markus Behnke, DFG/PC, telephone: 49 (228) 885-2181, email: NSF-DFG-Chemistry@dfg.de
-

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) 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) 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

- For CSDM-A: Colby A. Foss, telephone: (703) 292-5327, email: cfoss@nsf.gov
 - For CMI: Kelsey D. Cook, telephone: (703) 292-7490, email: kcook@nsf.gov
-

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

- Ann Lichens-Park, USDA/NIFA National Program Leader, telephone: (202) 445-5483, email: ann.park@usda.gov
-

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

- Michelle M. Bushey, telephone: (703) 292-4938, email: mbushey@nsf.gov
-

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

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

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National Institutes of Health

Grant Program: Enhancing Science, Technology, EnginEering, and Math Educational Diversity (ESTEEMED) Research Education Experiences (R25)

Agency: National Institutes of Health PAR-20-223

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-20-223.html>

Brief Description: The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this R25 program is to support educational

activities that encourage individuals from diverse backgrounds, including those from groups underrepresented in the biomedical and behavioral sciences, to pursue further studies or careers in research

To accomplish the stated over-arching goal, this FOA will support creative educational activities with a primary focus on:

- ***Courses for Skills Development***
- ***Research Experiences***

for undergraduate freshmen and sophomores from diverse backgrounds, including those from groups underrepresented in bioengineering or STEM fields relevant to bioengineering, such as engineering or the physical/computational sciences, which play key roles in biomedical technologies and innovation. The ESTEEMED program is intended to expose students to bioengineering research early in their college careers and interest them in potentially pursuing advanced studies in bioengineering or a related field. It will prepare students to join, in their junior and senior years, an honors program, supported by federal or institutional funds, that promotes STEM and entrance into a Ph.D. program. The ultimate goal is for the participants to pursue a Ph.D. or M.D./Ph.D. degree and a subsequent research career integrating engineering and the physical sciences with medicine and biology in academia or industry.

Awards: Application budgets are not limited but need to reflect the actual needs of the proposed project. Annual costs that may be requested are:

- 1) Up to a total of \$30,000 as summer or other salary for faculty members involved in the design, implementation and management of the program.
- 2) Up to a total of \$30,000 for non-faculty administrators who manage the day-to-day activities of the program; and
- 3) Up to \$5,000 towards the salary of (an) external evaluator(s)

Letter of Intent: May 22, 2020; May 24, 2021; May 24, 2022

Proposal Submission Deadline: July 24, 2020; June 24, 2021; June 24, 2022

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

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

Contact: Zeynep Erim, Ph.D., National Institute of Biomedical Imaging and Bioengineering (NIBIB)

Telephone: (301) 451-4797 Email: erimz@mail.nih.gov

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

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), 301-435-7204

Email: Transformative_Awards@mail.nih.gov

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.

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

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

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

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.

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.

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.

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: Naval Air Warfare Center Aircraft Division (NAWCAD) Office-Wide

Agency: Department of Defense NAVAIR N00421-20-S-0001

Website: [N00421-20-S-0001 at Beta.Sam.Gov](#)

Brief Description: The Naval Air Warfare Center Aircraft Division (NAWCAD) is interested in receiving proposals for research and development projects, which offer potential for advancement and improvement of NAWCAD operations. Readers should note that this is an announcement to declare NAWCAD's broad role in competitive funding of meritorious research across a spectrum of science and engineering disciplines. NAWCAD has identified the research needed to address the challenges, problems, and future technology needs of the Warfighter. Research Opportunity Areas of Interest:

Systems Engineering. Areas of research include but are not limited to the following: integrated modeling environments, model based systems engineering methodology, integration of system models and physics-based models, systems safety engineering, air platform development and integration, system of systems architectures, aviation/ship integration, combat survivability, reliability and maintainability engineering, anti-tamper engineering, electromagnetic environmental effects engineering, and manufacturing.

Research and Intelligence. Areas of research include but are not limited to the following: autonomous behaviors, big data workflow, machine learning (ML)/deep learning (DL), AI enabling technologies, quantum technologies, optics research & fabrication and chemical detection.

Modeling and Simulation. Areas of research include but are not limited to the following: weapon training systems, parallel computing, virtual environments, tactical decision-making, training technologies, multi-discipline simulation methodology development, constructive modeling and simulation, verification, and validation. • Logistics. Areas of research include but are not limited to supply chain development, supportability design, model based product support, automated sustainment monitoring, and supportability.

Additional areas include Data Analysis, Cyber, Weapons & Energetics Integration, Human Systems and more...

Awards: Various

Proposal Deadline: This announcement will remain open for one (1) year from the date of publication, or until replaced by a successor BAA. Proposals may be submitted at any time during this period.

Contact Information: Elisabeth Keith Contract Specialist Phone 3017570231
[NAWCAD BAA Coordinator Email](#)

Grant Program: DoD Duchenne Muscular Dystrophy, Idea Development Award

Agency: Department of Defense Dept. of the Army – USAMRAA W81XWH-20-DMDRP-IDA

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

Brief Description: All applications for the FY20 DMDRP Idea Development Award (IDA) must address opportunities and challenges in the development of safe and effective macromolecular and cellular therapies that address primary pathology of DMD. Eligible therapeutic strategies include: gene therapy, genome editing, oligonucleotide therapies, exon skipping, protein therapeutics, and cell therapies. Therapies that will be efficacious across the life-span, particularly in adolescents and adults are encouraged.

Studies proposed under this award may include: • Delivery to skeletal muscle and heart (e.g., ligand assisted, nanoparticles, identification of biological barriers to delivery, and alternative vectors) • Immunosuppression, vector modification, and other strategies to facilitate repeat administration of biologic therapies • Targeting muscle stem cells • Cell-based therapies, including but not limited to: selection of novel cell types, expansion, cell delivery and homing, differentiation, and integration • Research that will inform and improve therapy in older individuals, including dosing challenges, genetic based therapies, tissue environments, and other factors that may compromise delivery and efficacy in this patient group • Therapies addressing secondary pathologies of DMD to the extent that they augment therapies directed at primary disease mechanisms.

Awards: Appropriations for the DMDRP from FY11 through FY19 totaled \$29.6 million (M). The FY20 appropriation is \$10M.

Proposal Deadline: Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), August 12, 2020 • Invitation to Submit an Application: September, 2020 • Application Submission Deadline: 11:59 p.m. ET, December 7, 2020

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

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

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

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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

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Department of Agriculture:

Grant Program: Distance Learning and Telemedicine Grants

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

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

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

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

Proposal Deadline: July 13, 2020

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

Grant Program: Biotechnology Risk Assessment Grants Program

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

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

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

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

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

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

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

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

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

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

renewable energy system. Eligible technologies include: projects that produce energy from wind, solar, biomass, geothermal, hydro power and hydrogen-based sources.

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

Submission Deadline: September 30, 2020

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

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Department of Labor

Grant Program: Supply Chains Tracing Project

Agency: Department of Labor NOI-ILAB-20-04

Website: [NOI-ILAB-20-04](#):

Brief Description: The project will aim to achieve the following three outputs: (1) increased number of tested supply chain tracing methodologies; (2) increased number of piloted tools for supply chain tracing; and (3) increased dissemination of supply chain tracing tools and methodologies to a broad range of stakeholders. The Employment and Training Administration (ETA)'s Office of Grants Management anticipates publishing a Funding Opportunity Announcement (FOA) around July 20, 2020, and intends to make awards by November 30, 2020 (these dates are subject to change). Please refer to: <http://www.dol.gov/ilab/grants/> and <https://www.dol.gov/agencies/ilab/resources/grants> for general guidelines and examples of previous cooperative agreement applications. This notice does not include an FOA or any attachments. It only constitutes a notice of USDOL's intent to publish an FOA at a later date. Interested applicants are encouraged to monitor www.grants.gov for the FOA because, if an FOA is published, [grants.gov](http://www.grants.gov) is the method by which the FOA will be made available to the public. No email or paper copies of any FOA will be provided.

Awards: Up to \$4,000,000; Estimated Total Program Funding: \$8,000,000

Proposal Deadline: This is a Notice of Intent. An announcement is not related to this notice. We are not accepting applications at this time.

Contact Information: Sue Levenstein, Grants Management Specialist. levenstein.susan.l@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, peer-reviewed, 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

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Department of Energy

Grant Program: Small-Scale Solid Oxide Fuel Cell Systems and Hybrid Electrolyzer Technology Development

Agency: Department of Energy Office of Science DE-FOA-0002300

Website: https://www.fedconnect.net/FedConnect/PublicPages/PublicSearch/Public_Opportunities.aspx

Brief Description: This FOA will solicit applications for multiple areas of interest and will correspond to research outlined in the Department's August 2019 Report on the Status of the Solid Oxide Fuel Cell Program" (<https://www.energy.gov/fe/report-congress-status-solid-oxide-fuel-cell-program>), to Congress and could include, but are not limited to the following:

- * Small-scale (nominally 5-25 kWe) distributed generation SOFC systems.
- * Hydrogen production from Solid State Electrolyzer Cell (SOEC) systems and reversible SOFC systems including improving and validating the materials and systems required for the improving the cost, performance and reliability of systems using natural gas or coal-derived syngas as fuel.
- * Cleaning of coal-derived syngas for use as SOFC fuel and testing of single and multiple cells on syngas.

Awards: Estimated Total Program Funding: \$30,000,000

Letter of Intent: Required by June 26, 2020

Submission Deadline: July 27, 2020 at 3:00PM ET.

Contact: Ryan Miller, Grantor, Phone 202-287-1487 ryan.miller@hq.doe.gov

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>

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/#FoalIdf92d9b97-2d02-4e2a-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 For questions about the Exchange System or submitting an application through Exchange. Include FOA name and number in subject line.

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NASA

Grant Program: NASA Innovative Advanced Concepts (NIAC) Phase I

Agency: NASA 80HQTR20NOA01-21NIAC-A1

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B9BC1CCC6-3CB9-30BA-8C21-0B88402F4A2A%7D&path=&method=init>

Brief Description: The NIAC Program focuses on early stage feasibility studies of visionary concepts that address national government and commercial aerospace goals. Concepts are solicited from any field of study that offers a radically different approach or disruptive innovation that may significantly enhance or enable new human or robotic science and exploration missions. Proposed concepts must be framed in terms of a mission context that clearly identifies scientific or technical advancements and associated benefits compared to current approaches. Comparatively high risk and far term, NIAC concepts are transformational investments in future NASA and commercial space capabilities. The entry Technology Readiness Level (TRL) for Phase I concepts should be TRL 2 or lower. Proposed concepts must identify credible approaches toward new scientific or technical innovations that advance NASA's strategic themes to Discover, Explore, Develop, and Enable, as outlined in the 2018 NASA Strategic Plan. Advancements are sought across the broad spectrum of disciplines that support the goals and objectives encompassed by these themes, including nontraditional areas such as biophysics, life sciences, human factors engineering, artificial intelligence, resource sustainability, and other topics that may inspire innovative approaches to meet future exploration needs.

Awards: Expected Award Amount: Not to exceed \$125K Expected Number of Awards: 12-16

Proposal Deadline: Step-A Proposals Due: July 22, 2020 (5:00 pm Eastern)

Step B Invitations Issued: August 25, 2020 (Target) Step B Proposal Due: September 29, 2020 (Target), 5:00pm ET

Contact: Jason Derleth, NIAC Program Executive, Space Technology Mission Directorate, NASA Headquarters hq-niac@mail.nasa.gov

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

Agency: NASA NNH20ZDA001N-NIP

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

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

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

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

Proposal Deadline: September 20, 2021

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

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

Agency: NASA NNH20ZDA001N-SWO2R

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

Brief Description: The primary goal of the Space Weather Science Application Operations-to-Research (SWO2R) program is to support research to improve numerical models and/or data utilization techniques

that could advance specification and/or forecasting capabilities and which could also lead to improved scientific understanding.

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

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

Step 1 Proposal: December 16, 2020

Step 2 Proposal Deadline: February 17, 2021

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

Grant Program: ROSES 2020: Heliophysics Supporting Research

Agency: NASA NNH20ZDA001N-HSR

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

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

Awards: Various; Available funding: \$6.500.000

Notices of Intent Due: N/A

Proposal Deadline: November 18, 2020

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

Grant Program: HELIOPHYSICS - Early Career Investigator Program

Agency: NASA NNH20ZDA001N-ECIP

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?sollId=%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: N/A

Proposal Deadline: August 12, 2020

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

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National Endowment of Humanities

Grant Program: Humanities Initiatives

Agency: National Endowment for the Humanities 0200716-AA-AB-AC-AD-AE

Website: <https://www.neh.gov/program/humanities-initiatives-colleges-and-universities>

Brief Description: Humanities Initiatives at Colleges and Universities strengthen the teaching and study of the humanities at institutions of higher education by developing new humanities programs, resources (including those in digital format), or courses, or by enhancing existing ones.

Projects must be organized around a core topic or set of themes drawn from such areas of study in the humanities as history, philosophy, religion, literature, and composition and writing skills.

NEH welcomes applications for projects that are modest in scope, duration, and budget, as well as applications for expansive, long-term projects.

Awards: Maximum award: \$150,000 Available funding: \$3,000,000

Deadlines:

Optional Draft due: June 18, 2020

Application due: July 16, 2020

Contact: Contact the Division of Education Programs Team hi@neh.gov

Grant Program: Public Humanities Projects

Agency: National Endowment for the Humanities

Website: <https://www.neh.gov/grants/public/public-humanities-projects>

Brief Description: The program supports projects in three categories: **Exhibitions** (permanent, temporary, or traveling); interpretive programs at **Historic Places**; and **Humanities Discussions** related to [“A More Perfect Union”: NEH Special Initiative Advancing Civic Education and Commemorating the Nation’s 250th Anniversary](#). The period of performance for Planning proposals is up to 24 months. The period of performance for Implementation proposals is up to 48 months. If you are applying for the Implementation funding level, you may now request an additional \$100,000 to create a two-year staff full-time position during a four-year period of performance (or \$50,000 for a one-year period of performance, and a one-year full-time staff position) to work on the proposed project.

Awards: Maximum award amount: Planning: \$75,000; Implementation: \$400,000 (+additional \$100,000)

Deadlines:

Optional Draft due: June 18, 2020

Application due: July 16, 2020

Contact: Contact the Division of Public Programs Team 202-606-8269 publicpgms@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](https://www.thebrf.org/) is inviting your institution to nominate **one senior faculty member** to submit a Letter of Intent for the 2021 *Scientific Innovations Award* (SIA). The objective of the program is to support projects that may be too innovative and speculative for traditional funding sources but still have a high likelihood of producing important findings. It is expected that investigations supported by these grants will yield high impact findings and result in major grant applications and funding as well as significant publications in high impact journals. To be eligible, the nominee must be a **full-time associate professor/full professor** working in the area of neuroscience and brain function in health and disease.

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

Proposal Deadline: June 25, 2020 at 4:00 p.m. CST.

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

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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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