

NJIT Research Newsletter

Issue: ORN-2021-13

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> .

Contents

Special Announcements: Page 1

Grant Opportunity Alerts: Keyword Index: Page 2

Recent Awards: Page 3

In the News (Related to research funding): Page 3

Webinars and Events: Page 5

Grant Opportunities: Page 8

[National Science Foundation](#)

[National Institutes of Health](#)

[Department of Defense](#)

[Department of Transportation](#)

[Department of Agriculture](#)

[Department of Labor](#)

[Department of Commerce/EDA](#)

[Environmental Protection Agency](#)

[Department of Energy](#)

[NASA](#)

[National Endowment of Humanities](#)

[Private Foundations](#)

Streamlyne Question of the Week: Page 34

Proposal Submission and Streamlyne Information: Page 34

Special Announcements

NJIT Pandemic Recovery Plan Research Continuity and Phased Recovery Plan

<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 current institutional, state and federal guidelines. Details on NJIT Research Continuity and Recovery Plan and associated protocols are posted on the website <https://research.njit.edu/njit-pandemic-recovery-plan>

[Back to Contents](#)

[Grant Opportunity Alerts](#)

Keywords and Areas Included in the Grant Opportunity Alert Section Below

NSF: Racial Equity in STEM Education (EHR Racial Equity)Trans-Atlantic Platform Recovery, Renewal, and Resilience in a Post-Pandemic World (T-AP RRR); Alliances for Graduate Education and the Professoriate (AGEP); Mathematical and Physical Sciences Ascending Postdoctoral Research Fellowships; NSF Convergence Accelerator Program

NIH: NIH Director’s Pioneer Award Program (DP1); Clinical Trial Optional)Bridges to the Doctorate Research Training Program (T32); BRAIN Initiative: Targeted BRAIN Circuits Projects- TargetedBCP (R01); NINDS Faculty Development Award to Promote Diversity in Neuroscience Research (K01); BRAIN Initiative: Reagent Resources for Brain Cell Type-Specific Access and Manipulation to Broaden Distribution of Enabling Technologies for Neuroscience (U240; Innovative Programs to Enhance Research Training (IPERT) (R25); Research on Autism Spectrum Disorders (R21); NLM Institutional Grants for Research Training in Biomedical Informatics and Data Science (T15); Academic-Industrial Partnerships for Translation of Technologies for Diagnosis and Treatment (R01)

Department of Defense/US Army/DARPA/ONR: ERDC Broad Agency Announcement; Quantum Benchmarking; Peer Reviewed Orthopaedic Research Program: Clinical Translational Research Award; DoD Spinal Cord Injury, Investigator- Initiated Research Award; Multidisciplinary Research Program of the University Research Initiative (MURI); Prevention or Reduction of Risk/Severity to Traumatic Brain Injuries

Department of Transportation: DDETFP Transportation Fellowship Program; High Priority Program – Innovative Technology Deployment (HP-ITD)

Department of Agriculture: Data and Technical Assistance (DATA) Grants Program; Agriculture and Food Research Initiative - Foundational and Applied Science

Department of Labor: State Apprenticeship Expansion, Equity and Innovation (SAEEI) Grant Program

Department of Commerce/EDA: EDA University Center Competition – CRO; NOAA Science Collaboration Program; FY2021 to FY2023 NOAA Broad Agency Announcement (BAA)

EPA: Early Career: Measurement and Monitoring Methods for Air Toxics and Contaminants of Emerging Concern in the Atmosphere

Department of Energy: University-Based Energy Industry Research and Development of Scalable Cyber-Physical Solutions; Data-Intensive Scientific Machine Learning and Analysis; Data Science to Advance Chemical and Materials Sciences

NASA: ROSES 2021: Heliophysics Mission Concept Studies; ROSES 2021: Living With a Star Science; New (Early Career) Investigator Program in Earth Science; Earth Science Applications: Health and Air Quality; Advanced Information Systems Technology

National Endowment of Humanities: American Rescue Plan: Humanities Grantmaking; Digital Projects for the Public; Humanities Initiatives; Research and Development

Private Foundations: New Jersey Commission on Spinal Cord Research: Exploratory Research Grants and Postdoctoral and Graduate Student Fellowship Research Grants

American Diabetes Association (ADA): The American Diabetes Association Health Disparities and Diabetes Research Award

[Back to Contents](#)

[Recent Research Grant and Contract Awards](#)

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

PI: Alexander Haimovich (PI)

Department: Electrical and Computer Engineering

Grant/Contract Project Title: End-to-End Machine Learning (E2EML) Fuze Radar

Funding Agency: DOTC

Duration: 06/25/20-08/31/23

PI: Edward Dreizen (PI)

Department: Chemical and Material Engineering

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

Funding Agency: DOTC

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

PI: Laurent Simon (PI)

Department: Chemical and Material Engineering

Grant/Contract Project Title: A Multiscale Physiologically-Based Pharmacokinetic to Stimulate Dermal Exposure to Chemical Warfare Agents

Funding Agency: U.S. Army (Army Research Office)

Duration: 03/08/21-03/07/24

[Back to Contents](#)

[In the News...](#)

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

Office of Management and Budget Releases the President's Fiscal Year 2022 Discretionary Funding

Request: The Office of Management and Budget (OMB) today submitted to Congress President Biden's discretionary funding request for Fiscal Year 2022. As Congress prepares to begin the annual appropriations process, the request lays out the President's discretionary funding recommendations across a wide range of policy areas and outlines a strategy for reinvesting in the foundations of our country's resilience and strength. The request — which represents only one element of the Administration's broader agenda — includes key investments in K-12 education, medical research, housing, civil rights, and other priorities that are vital to our future. Later this spring, the Administration will release the President's Budget, which will present a unified, comprehensive plan to address the overlapping challenges we face in a fiscally and economically responsible way.

For complete information on the President's FY 2022 discretionary funding request, please visit: <https://www.whitehouse.gov/omb/fy-2022-discretionary-request/>. At a topline level, the \$1.5 trillion budget plan includes \$769 billion in nondefense discretionary funding, a 16% increase over the Fiscal Year 2021 (FY21) enacted level, and \$753 billion, a 1.7% increase, for defense funding.

U.S. Department of Education

- **Topline:** \$102.8 billion, a \$29.8 billion, or 41%, increase over the FY21 level.

U.S. Department of Health and Human Services

- **Topline:** \$131.7 billion, a \$25 billion or 23.5% increase from the FY21 level.
- **National Institutes of Health:** \$51 billion, a \$9 billion increase over FY21
 - **New Advanced Research Projects Agency for Health (ARPA-H):** \$6.5 billion to launch ARPA-H. With an initial focus on cancer and other diseases such as diabetes and Alzheimer's, this major investment in Federal research and development would drive transformational innovation in health research and speed application and implementation of health breakthroughs.
- **Help End the Opioid Epidemic:** \$10.7 billion, an increase of \$3.9 billion over the FY21 level, to support research, prevention, treatment, and recovery support services, with targeted investments to support populations with unique needs, including Native Americans, older Americans, and rural populations.

U.S. Department of Commerce

- **Topline:** \$11.4 billion, a \$2.5 billion or 28% increase from the FY21
- **National Oceanic and Atmospheric Administration:** \$6.9 billion, a \$1.4 billion increase over FY21. Specifically, \$800 million to expand investments in climate research, support regional and local decision-making with climate data and tools, and improve community resilience to climate change.
- **National Institute of Standards and Technology:** \$916 million, a \$128 million increase from FY21, for scientific and technological research in climate-resilient building codes, computing, cybersecurity, and artificial intelligence, quantum information science, biotechnology, and advanced manufacturing, and to establish prize competitions to pursue key technology goals to benefit all Americans

U.S. Department of Energy (DOE)

- **Topline:** \$46.1 billion, a \$4.3 billion or 10.2% increase from FY21
- **Office of Science:** \$7.4 billion, an increase of more than \$400 million over the FY21 level, to better understand the changing climate; identify and develop novel materials and concepts for clean energy technologies of the future; advance artificial intelligence and computing to enhance prediction and decision making across numerous environmental and scientific challenges; and support the National Laboratory network with cutting-edge scientific facilities.
- **Spurs Innovation in Clean Energy Technologies:** \$8 billion, an increase of at least 27% over FY21, in technology such as advanced nuclear energy technologies, electric vehicles, green hydrogen, and even innovative approaches to air conditioning and refrigeration.
- **Drives Breakthrough Solutions in Climate Innovation and Clean Energy:** \$1 billion to create a new Advanced Research Projects Agency for Climate and invest in the existing Advanced Research Projects Agency-Energy of which \$700 million is funding through DOE.

National Science Foundation (NSF)

- **Topline:** \$10.2 billion, a \$1.7 billion or 20% increase over the FY21 level
- **New Directorate for Technology, Innovation, and Partnerships:** The Directorate would work with programs across the Agency and with other existing Federal and non-Federal entities to expedite technology development in emerging areas that are crucial for U.S. technological leadership, including artificial intelligence, high performance computing, disaster response and resilience, quantum information systems, robotics, advanced communications technologies, biotechnology, and cybersecurity.
- **Enhances Fundamental Research and Development:** \$9.4 billion, an increase of \$1.6 billion above the FY21 level, to support research across the spectrum of science, engineering, and

technology, including biological sciences, computer and information sciences, engineering, geosciences, math and physical sciences, social, behavioral, and economic sciences, and education.

- **Advances Climate Science and Sustainability Research:** \$1.2 billion for climate and clean energy related research, an increase of \$500 million above the FY21 level. NSF would fund a broad portfolio of research related to climate science and clean energy, including research on atmospheric composition, water and carbon cycles, modeling climate systems, renewable energy technologies, materials sciences, and social, behavioral, and economic research on human responses to climate change.

A summary of the specific agency funding increases is available on the on the [GovExec website](#).

Drones Could One Day Make Up 40% of a Carrier Air Wing, Navy Says: “We think we could get upwards of 40 percent of the aircraft in an air wing that are unmanned and then transition beyond that. So I think the logical step would be trying to follow a logical crawl, walk, run,” Vice Adm. James Kilby told lawmakers gathered for a Thursday hearing. Kilby, the deputy chief of naval operations for warfighting requirements and capabilities, was on Capitol Hill to discuss the Navy Department’s new [Unmanned Campaign Framework](#), which covers uncrewed ground, maritime, and airborne weapons. Lawmakers [have been skeptical](#) of the Navy’s unmanned plans for some time. Kilby said the new report had led Navy leaders to conclude that “we were focused on platforms too narrowly and not looking at the enabling technologies that will bring those all to bear.” The Framework outlines a plan to move toward smaller tactical networks, more distributed data storage and the use of artificial intelligence, thus decreasing the importance of any single platform that’s part of a swarm or group. More information is posted on the [GovExec website](#).

Pentagon AI Hub Issues \$241M Data Readiness Contract: The Joint Artificial Intelligence Center is out with a \$241 million contract vehicle to help the Defense Department become ready for AI development by preparing data for the emerging technology. The Data Readiness for Artificial Intelligence Development services solicitation covers a five-year performance period and will result in multiple basic ordering agreements, according to the solicitation documents published Wednesday to beta.sam.gov.

“The purpose of this Performance Work Statement (PWS) is to help the DoD and Government users prepare data for use in AI applications by providing an easily accessible path to access the cutting-edge commercial services needed to meet the complex technical challenges involved in preparing data for AI,” the documents read. “Through access to AI data preparation tools, capabilities, and services, the DoD will be positioned to effectively prepare AI data to support the full range of AI activities across the DoD.” The PWS indicates the services the Defense Department is looking for under this contract include curating, preparing, securing, and encrypting data for AI, securing, packaging and delivering AI tools, and making sure those tools can be integrated into cloud platforms. More information is posted on the [NextGov website](#).

[Back to Contents](#)

[Webinar and Events](#)

Event: DEB Virtual Office Hour: Getting to Know DBI

Sponsor: NSF

When: April 12, 2021 1.00 PM to 2:00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=302438&org=NSF

Brief Description: Program Officers will provide information on the Division of Biological Infrastructure (DBI), including information on REU sites, collections, databases, and more. Representatives from DBI will be available for questions.

To Join the Webinar: To participate, please use the registration link below. Upcoming DEB Virtual Office Hours are announced ahead of time on DEBbrief, [so we suggest you also sign up for blog notifications](#). [REGISTER HERE](#)

Event: MPS-Ascend Webinar

Sponsor: NSF

When: April 12, 2021 2:00 PM to 3:30 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=302409&org=NSF

Brief Description: The [Mathematical and Physical Sciences Ascending Postdoctoral Research Fellowships \(MPS-Ascend\)](#) (NSF 21-573) program provides support for postdoctoral fellows who will broaden the participation of minorities that are significantly underrepresented in mathematical and physical sciences (MPS) fields in the U.S., and enable the fellows to develop as future leaders in MPS. Awards will support research in any scientific area within the purview of the five MPS Divisions: [Astronomical Sciences \(AST\)](#), [Chemistry \(CHE\)](#), [Materials Research \(DMR\)](#), [Mathematical Sciences \(DMS\)](#), and [Physics \(PHY\)](#). Proposals must be submitted by the potential postdoc (not by the postdoc mentor), and applicants must be U.S. citizens (or nationals) or legally admitted permanent residents of the U.S. (Green Card holders) at the time the proposal is submitted. The proposal should present research, professional development, and plans that describe how the suggested activities will broaden the participation of underrepresented minorities who will become leaders in MPS fields. Fellowships are awards to individuals, not institutions, and are administered by the fellows. Underrepresented minorities are especially encouraged to apply.

To Join the Webinar: Register at https://nsf.zoomgov.com/webinar/register/WN_3KKn0-DUQ9qrBkXGFxDDQQ

Event: LEAPS-MPS Webinar

Sponsor: NSF

When: April 13, 2021 1:00 PM to 2:30 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=302411&org=NSF

Brief Description: The [Launching Early-Career Academic Pathways in the Mathematical and Physical Sciences \(LEAPS-MPS\)](#) (NSF 21-570) program supports tenure-track (or equivalent) but non-tenured faculty members at institutions of higher education in MPS who have not previously served as principal investigators, co-principal investigators, or senior personnel on an NSF-funded research award. We particularly encourage submissions from applicants at R2 institutions, as defined in the [Carnegie Classification of Institutions of Higher Education](#), as well as minority-serving institutions (MSIs), including historically Black colleges and universities (HBCUs), Hispanic-serving institutions (HSIs), tribal colleges and universities (TCUs), and Asian American and Native American Pacific Islander-serving institutions (AANAPISIs). As part of the proposal, applicants should include a discussion of how the proposed research activities will facilitate development of a subsequent research proposal, and present a plan that demonstrates the way in which the proposed activities will increase the participation of scientists who are underrepresented minorities, ultimately helping to create role models for the scientific workforce of the future.

To Join the Webinar: Register at https://nsf.zoomgov.com/webinar/register/WN_e1IYYrLGS3CC4FeLgxAZ5w

Event: MCB Virtual Office Hour; Getting to know the Division of Biological Infrastructure (DBI)

Sponsor: NSF

When: April 14, 2021 2:00 PM to 3.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=302455&org=NSF

Brief Description: This Office Hour will be Wednesday, April 14 from 2-3pm EST, where we will discuss “Getting to know the Division of Biological Infrastructure (DBI): Opportunities and Priorities,” followed by an open Q&A session. Questions should also be broad and of potential interest to others.

To Join the Webinar: Please register [here](#).

Event: BRITE Program Webinar

Sponsor: NSF

When: April 20, 2021 3:00 PM to 4.00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=302432&org=NSF

Brief Description: NSF will host a webinar to introduce and answer questions related to the [NSF Boosting Research Ideas for Transformative and Equitable Advances in Engineering \(BRITE\) solicitation \(NSF 21-568\)](#) on Tuesday, April 20, 2021, from 3:00 to 4:00 PM Eastern Time.

Program directors will discuss the research thrusts, types of proposals, proposal requirements and evaluation criteria specific to this solicitation.

If you have questions after reading the solicitation, please submit them to brite@nsf.gov. Common questions will be answered in the webinar, and there will be an opportunity to ask questions during the webinar as well.

To Join the Webinar: Register in advance for this webinar at https://nsf.zoomgov.com/webinar/register/WN_C_u43651RWWDpVV5PyZthA

Event: BIO/MCB HBCU EiR Webinar

Sponsor: NSF

When: April 14, 2021 10.00 AM to 11.00 AM

April 21, 2021 2.00 PM to 3:00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=302282&org=NSF

Brief Description: In April, MCB will offer two informational webinars reviewing relevant highlights of the Historically Black Colleges and Universities – Excellence in Research (HBCU – EiR) [solicitation \(NSF 20-542\)](#). The webinars will introduce the solicitation and encourage prospective principal investigators to communicate closely with program directors before submitting a Letter of Intent and will feature program directors from each of the four divisions of NSF’s Directorate of Biological Sciences (BIO):

- MCB – Division of Molecular and Cellular Biosciences
- DBI – Division of Biological Infrastructure
- DEB – Division of Environmental Biology
- IOS – Integrative and Organismal Systems

To Join the Webinar: To register and receive the Zoom meeting link, please click on the link below.

April 14, 2021: https://nsf.zoomgov.com/webinar/register/WN_RM6mFe_QF23VJTfxQnXzA

April 21, 2021: https://nsf.zoomgov.com/webinar/register/WN_s3Y-AQS9TpS2wg_wTaKh0A

Event: 2021 NSF Engineering CAREER Proposal Writing Workshop

Junior faculty must apply by February 19, 2021, to participate in the mock panel review session

Sponsor: NSF

When: April 21, 2021; 1:00 PM - 5:00 PM

April 22, 2021; 1:00 PM - 5:00 PM

April 23, 2021; 1:00 PM - 5:00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=302095&org=NSF

Brief Description: The 2021 NSF Engineering CAREER Proposal Writing Workshop will be held VIRTUALLY April 21-23, 2021, from 1:00PM to 5:00PM ET each day. The workshop aims to provide junior faculty who plan to submit a CAREER proposal to a program in the NSF [Directorate for Engineering \(ENG\)](#) with a CAREER proposal review experience and a forum in which they can interact with NSF Program Directors and recent NSF CAREER awardees.

Attendees of the 2021 NSF ENG CAREER Proposal Writing Workshop will benefit from:

- Mock proposal reviews by panels
- Interactions with ENG Directorate Program Directors
- Focus sessions with recent CAREER awardees
- Interaction across disciplines and engineering schools nationwide

All activities for the 2021 NSF ENG CAREER Proposal Writing Workshop will be conducted virtually. The Mock Panel Review session is limited to 300 participants; all other sessions will be open.

To Join the Webinar: Visit <https://apply.hub.ki/career/> for details.

Event: DMS Virtual Office Hours

Sponsor: NSF

When: April 23, 2021 1.00 PM to 2:00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=302416&org=NSF

Brief Description: The Division of Mathematical Sciences (DMS) is hosting virtual office hours to share information about NSF's current operations and to provide guidance to the mathematical sciences community. All members of the mathematical sciences research community interested in the work of DMS are welcome to attend. Virtual office hours are held at roughly monthly intervals; topics vary. The event will be in the form of a webinar, starting with a brief presentation of selected current topics, with DMS program directors available to answer questions from the community.

To Join the Webinar: Participants should register (and may do so in advance) at the web page https://nsf.zoomgov.com/webinar/register/WN_k9luU1bORFaGsaw1Oe4Xcw

Event: Robotics Program Webinar for CAREER Principal Investigators

Sponsor: NSF

When: April 26, 2021, 3.00 PM – 4.30 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=302318&org=NSF

Brief Description: The [Foundational Research in Robotics program](#) is holding a webinar for prospective [CAREER](#) principal investigators on April 26, 2021, starting at 3:00 PM Eastern Time.

To Join the Webinar: Please register in advance and submit your questions at: https://nsf.zoomgov.com/webinar/register/WN_Js6oOXw9RweqvK5u4b47_g

[Back to Contents](#)

[Grant Opportunities](#)

[National Science Foundation](#)

Grant Program: Racial Equity in STEM Education (EHR Racial Equity)

Agency: National Science Foundation NSF PD 21-191Y

RFP Website:

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505910&org=NSF&sel_org=NSF&from=fund

Brief Description: Persistent racial injustices and inequalities in the United States have led to renewed concern and interest in addressing systemic racism. The National Science Foundation (NSF) Directorate for Education and Human Resources (EHR) seeks to support bold, ground-breaking, and potentially transformative projects addressing systemic racism in STEM. Proposals should advance racial equity in science, technology, engineering, and mathematics (STEM) education and workforce development through research (both fundamental and applied) and practice. Core to this funding opportunity is that proposals are led by, or developed and led in authentic partnership with, individuals and communities most impacted by the inequities caused by systemic racism. The voices, knowledge, and experiences of those who have been impacted by enduring racial inequities should be at the center of these proposals, including in, for example: project leadership and research positions, conceptualization of the proposal, decision-making processes, and the interpretation and dissemination of evidence and research results. The proposed work should provide positive outcomes for the individuals and communities engaged and should recognize peoples' humanity, experiences, and resilience. Proposals need to consider systemic barriers to opportunities and benefits, and how these barriers impact access to, retention in, and success in STEM education, research, and workforce development. Competitive proposals will be clear with respect to how the work advances racial equity and addresses systemic racism, as these constructs may have different meanings in different settings.

Collectively, proposals funded by this Program Description will: (1) advance the science and promotion of racial equity in STEM, (2) substantively contribute to removing systemic barriers that impact STEM education, the STEM workforce, and scientific advancement, (3) institutionalize effective and inclusive environments for STEM learning, STEM research, and STEM professionals, (4) diversify the project leadership (PIs and co-PIs), institutions, ideas, and approaches that NSF funds, and (5) expand the array of epistemologies, perspectives, and experiences in STEM.

Awards: Standard Grant or Continuing Grant; Anticipated Funding Amount: Up to \$4,400,000

Letters of Intent: Prospective PIs are encouraged to send a one-page concept paper to EHRRaceEquityPD@nsf.gov in advance of submitting a proposal.

Full Proposal Submission Deadline: July 13, 2021; October 12, 2021

Contacts: Please contact EHRRaceEquityPD@nsf.gov (703) 292-5009

Grant Program: Trans-Atlantic Platform Recovery, Renewal, and Resilience in a Post-Pandemic World (T-AP RRR)

Agency: National Science Foundation NSF PD 21-188Y

RFP Website:

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505909&org=NSF&sel_org=NSF&from=fund

Brief Description: The Trans-Atlantic Platform Recovery, Renewal, and Resilience in a Post-Pandemic World (T-AP RRR) opportunity supports international, collaborative research projects that address key gaps in our understanding of the complex societal effects of COVID-19. Specifically, T-AP RRR supports research that addresses one or more of the following challenges: reducing inequalities and vulnerabilities; building a more resilient, inclusive, and sustainable society; fostering democratic governance and participation; advancing responsible and inclusive digital innovation; and/or ensuring effective and accurate communication and media.

Proposals requesting NSF funding must fit within the scientific purview of the NSF Directorate for Social, Behavioral and Economic Sciences (SBE). Proposers are strongly encouraged to consult [SBE's](#)

[programs](#) and contact the cognizant program director (see Contacts, above) to discuss their proposals' fit within NSF/SBE's purview prior to submission of the international team proposal to the T-AP RRR Call.

International Team Composition

T-AP RRR supports collaborative research teams from four continents: Africa (Republic of South Africa); Europe (Croatia, Finland, France, Germany, Poland, Switzerland, and the United Kingdom); North America (Canada, the United States); and South America (Brazil and Colombia). Teams must include researchers based in at least three participating T-AP RRR countries and must include partners from both sides of the Atlantic, *i.e.*, from Europe/Africa and the Americas. Research partners will receive funding from their own national funding agencies for projects of up to 36 months in duration.

Awards: Standard Grant or Continuing Grant; Anticipated Funding Amount: Up to \$4,400,000

Letters of Intent: Please see below.

Full Proposal Submission Deadline: The full T-AP RRR Call for Proposals, details about eligibility, and instructions for preparing and submitting proposals will be available on the [T-AP website](#) on April 12, 2021. International team proposals must first be submitted via the SAGE system hosted by the São Paulo Research Foundation. The link to the SAGE system can be found on the [T-AP website](#). The submission deadline is July 12, 2021.

Contacts: Kwabena Gyimah-Brempong kgyimahb@nsf.gov (703) 292-7466

Grant Program: Alliances for Graduate Education and the Professoriate (AGEP)

Agency: National Science Foundation NSF 21-576

RFP Website: <https://www.nsf.gov/pubs/2021/nsf21576/nsf21576.htm>

Brief Description: The NSF's Alliances for Graduate Education and the Professoriate (AGEP) program contributes to the National Science Foundation's objective to foster the growth of a more capable and diverse research workforce.¹ Through this solicitation, the NSF seeks to build on prior AGEP work, and other research and literature concerning racial and ethnic equity, in order to address the *AGEP program goal to increase the number of historically underrepresented minority faculty in STEM.*² Furthering the AGEP goal requires advancing knowledge about new academic STEM career pathway models, and about evidence-based systemic or institutional change initiatives to promote equity and the professional advancement of the AGEP populations who are pursuing, entering and continuing in non-tenure and tenure-track STEM faculty positions. The use of the term "historically underrepresented minority" reflects language from Congress, and in the context of the AGEP program, the AGEP populations are defined as STEM doctoral candidates, postdoctoral scholars and faculty, who are African Americans, Hispanic Americans, American Indians, Alaska Natives, Native Hawaiians, and Native Pacific Islanders. The terms for these racial and ethnic populations are derived from the US government's guidance for federal statistics and administrative reporting. At the graduate student level, only doctoral candidates are included because they have greater potential to enter a faculty position within the project duration time frame.

This solicitation includes three funding tracks that all support the AGEP program goal. All tracks require collaborative IHE teams to use an intersectional lens as they address systemic and institutional change strategies at IHEs to promote equity for AGEP populations.

- The *AGEP Institutional Transformation Alliance (ITA)* track is designed to support the development, implementation, and evaluation of *innovative* systemic and institutional change strategies that promote equity for AGEP populations, within similar IHEs. ITAs will create permanent policy and practice changes that advance AGEP populations, and the project work is expected to be sustained after NSF funding expires. Please note that a preliminary proposal to the ITA track is required, and that at least one of the institutions submitting must first have or have had an AGEP Catalyst Alliance. The proposing IHEs represented in the preliminary ITA proposal must be the same collaborating IHEs who will plan to submit a full ITA proposal, if invited by

NSF to submit the full ITA. Please read the full solicitation for details about ITA Preliminary and Full proposal submissions that begin in FY2022.

- The **AGEP Faculty Career Pathways Alliance Model (FC-PAM)** track is intended to support the development, implementation, evaluation, and institutionalization of Alliance models that will advance AGEP populations, within similar IHEs. The FC-PAM collaborators must also self-study into how socio-cultural, economic, structural, leadership and institutional variables affect the formation of the FC-PAM Alliance, and the strategies or interventions the collaborators implement to advance the AGEP populations. A Letter of Intent (LOI) is required ONLY for IHEs that plan to submit an FC-PAM collaborative proposal, and only one LOI is needed for the collaborating research institutions that plan to submit the FC-PAM proposal. The FC-PAM track will only be available in FY2021-FY2022 and it will be discontinued thereafter.
- The **AGEP Catalyst Alliance (ACA)** track supports the design and implementation of one or more organizational self-assessment(s) to collect and analyze data that will identify inequities affecting the AGEP populations; pilot equity strategies as appropriate; and develop a five-year equity strategic plan for the AGEP populations. The ACA is meant as a facilitator grant to help similar IHEs generate the foundational work necessary to initiate an ITA project.

Awards: Standard Grant or Continuing Grant; Anticipated Funding Amount: Up to \$4,400,000

Letters of Intent: Required by June 02, 2021

Preliminary Proposal Deadline (due by 5 p.m. submitter's local time): February 08, 2022

Full Proposal Submission Deadline: August 17, 2021

Contacts: Mark H. Leddy, Lead Program Director, telephone: (703) 292-4655, email: mleddy@nsf.gov

- Sandra Romano, Program Director, telephone: (703) 292-5064, email: sromano@nsf.gov
- Carrie Hall, Program Director, telephone: (703) 292-4641, email: carhall@nsf.gov

Grant Program: Mathematical and Physical Sciences Ascending Postdoctoral Research Fellowships (MPS-Ascend)

Agency: National Science Foundation NSF 21-573

RFP Website: <https://www.nsf.gov/pubs/2021/nsf21573/nsf21573.htm>

Brief Description: The purpose of the Mathematical and Physical Sciences Ascending Postdoctoral Research Fellowship (MPS-Ascend) program is to support postdoctoral Fellows who will broaden the participation of groups that are underrepresented in MPS fields in the U.S. including Blacks or African Americans, Hispanics, Latinos, and Native Americans (to include Alaska Natives, Native Hawaiians or other Native Pacific Islanders) as future leaders in MPS fields. The program is intended to recognize beginning investigators of significant potential and provide them with experience in research that will broaden perspectives, facilitate interdisciplinary interactions and help broadening participation within MPS fields. The program funds postdoctoral Fellows in postdoctoral research environments that will have maximal impact on their future scientific development and facilitates their transition into a faculty appointment. Awards will support research in any scientific area within the purview of the five MPS Divisions: the Divisions of Astronomical Sciences (AST), Chemistry (CHE), Materials Research (DMR), Mathematical Sciences (DMS), and Physics (PHY). Fellowships are awards to individuals, not institutions, and are administered by the Fellows.

Awards: Individual Fellowships; Anticipated Funding Amount: \$5,000,000

Letters of Intent: Not Required

Proposal Submission Deadline: June 15, 2021

Contacts: Harshal Gupta, AST, telephone: (703) 292-5039, email: hgupta@nsf.gov

- Rebecca Peebles, CHE, telephone: (703) 292-8809, email: rpeebles@nsf.gov

Grant Program: NSF Convergence Accelerator Phases I and II for the 2021 Cohort

Agency: National Science Foundation NSF 21-572

RFP Website: <https://www.nsf.gov/pubs/2021/nsf21572/nsf21572.htm>

Brief Description: The NSF Convergence Accelerator program addresses national-scale societal challenges through use-inspired [convergence research](#). Using a convergence approach and innovation processes like human-centered design, user discovery, and team science and integration of multidisciplinary research, the Convergence Accelerator program seeks to transition basic research and discovery into practice—to solve high-impact societal challenges aligned with specific research themes (tracks).

NSF Convergence Accelerator tracks are chosen in concordance with the themes identified during the program’s ideation process that have the potential for significant national impact. The NSF Convergence Accelerator implements a two-phase program. Both phases are described in this solicitation and are covered by this single solicitation and corresponding Broad Agency Announcement. The link to the Broad Agency Announcement can be found [here](#). The purpose of this parallel activity is to provide increased opportunities for proposals that are led by non-academic entities. Proposals that are led by Institutions of Higher Education (IHEs), non-profits, independent museums, observatories, research labs, professional societies and similar organizations should respond to this solicitation. Proposals led by for-profit or similar organizations should respond to the BAA. Phase I awardees receive significant resources to further develop their convergence research ideas and to identify important partnerships and resources to accelerate their projects, leading to deliverable research prototypes in Phase II.

This solicitation for FY 2021 invites proposals for the following Track Topics:

Networked Blue Economy (Track E): The overarching goal of Track E is to interconnect the Blue Economy and accelerate convergence across ocean sectors. This track aims to create a smart, integrated, connected, and open ecosystem for ocean innovation, exploration, and sustainable utilization.

Trust & Authenticity in Communications Systems (Track F): The overarching goal of Track F is to develop prototype(s) of novel research platforms forming integrated collection(s) of tools, techniques, and educational materials and programs to support increased citizen trust in public information of all sorts (health, climate, news, etc.), through more effectively preventing, mitigating, and adapting to critical threats in our communications systems.

Letters of Intent should identify a team with the appropriate mix of disciplinary and cross-sector expertise required to build a convergence research effort. Letters of Intent must identify one or more deliverables, how those research outputs could impact society at scale, and the team that will be formed to carry this out. Phase I proposals must describe the deliverables, a research plan, and the process of team formation that will help lead to a proof-of-concept during Phase I.

If selected, Phase I awards may receive funding up to \$750,000 for 12 months duration, of which nine months includes intense hands-on activities, centering around the Program’s innovation curriculum (for additional details regarding the innovation curriculum refer to section V.A.), and three months of other activities such as participation in the NSF Convergence Accelerator Pitch Presentations and Expo.

Only awardees of Phase I awards under this solicitation may submit a Phase II proposal. Phase II proposals must outline a 24-month research and development plan that transitions research into practice through convergence activities, multi-sector partnerships, and collaboration with other partners and end-users. Phase II awards may be up to \$5 million for 24 months.

Awards: Standard Grant or Cooperative Agreement; Anticipated Funding Amount: \$22,000,000

Letters of Intent: Proposers are required to submit a Letter of Intent by May 05, 2021 in order to submit a Phase I Full Proposal.

Proposal Submission Deadline: June 14, 2021 for Phase I Full Proposals

May 25, 2022 for Phase II Full Proposals, only Phase I awardees are eligible to apply

Contacts: Chaitanya K. Baru, telephone: (703) 292-2473, email: cbaru@nsf.gov

- Lara A. Campbell, telephone: (703) 292-7049, email: lcampbel@nsf.gov
- Pradeep P. Fulay, telephone: (703) 292-2445, email: pfulay@nsf.gov

[Back to Contents](#)

National Institutes of Health

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

Agency: National Institutes of Health RFA-RM-21-015

RFP Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-RM-21-015.html>

Brief Description: 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 and as an aspect of innovativeness, 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.

Pioneer awardees are required to commit the major portion (more than 6 person-months or at least 51%) to activities supported by the Pioneer Award research project in the first three years of the project period. Effort expended toward teaching, administrative, or clinical duties should not be included in this calculation. Awardees may reduce effort to a minimum of 4 person-months (33%) and a minimum of 3 person-months (25%) in the fourth and fifth years, respectively, to help them transition to other sources of support since Pioneer Awards cannot be renewed. Applicants with current research commitments equal to 6 person-months or more must adjust their effort on existing grants during the award period to devote the required minimum effort to the Pioneer Award project. Investigators who will not be able to meet this requirement should not submit applications.

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

Letter of Intent: Not Applicable

Proposal Submission Deadline: September 10, 2021

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

Email: PioneerAwards@mail.nih.gov

Grant Program: Bridges to the Doctorate Research Training Program (T32)

Agency: National Institutes of Health PAR-21-198

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-21-198.html>

Brief Description: The Overarching Objective of this Bridges to the Doctorate Research Training Program is to develop a diverse pool of well-trained biomedical scientists who will transition from master's degree programs and complete rigorous biomedical, research-focused doctoral degree programs (e.g., Ph.D. or M.D./Ph.D.) in biomedical fields relevant to the [NIGMS mission](#). The long-term goal is to develop a diverse pool of well-trained biomedical scientists, who have the following technical, operational, and professional skills:

- A broad understanding across biomedical disciplines and the skills to independently acquire the knowledge needed to advance their chosen fields;
- Expertise in a biomedical scientific discipline and the skills to think critically and independently, and to identify important biomedical research questions and approaches that push forward the boundaries of their areas of study;
- A strong foundation in scientific reasoning, rigorous research design, experimental methods, quantitative and computational approaches, and data analysis and interpretation;
- The skills to conduct research in the safest manner possible, and a commitment to approaching and conducting biomedical research responsibly, ethically, and with integrity;
- Experience initiating, conducting, interpreting, and presenting rigorous and reproducible biomedical research with increasing self-direction;
- The ability to work effectively in teams with colleagues from a variety of cultural and scientific backgrounds, and to promote inclusive and supportive scientific research environments;
- The skills to teach and communicate scientific research methodologies and findings to a wide variety of audiences (e.g., discipline-specific, across disciplines, and the public); and
- The knowledge, professional skills and experiences required to identify and transition into careers in the biomedical research workforce (i.e., the breadth of careers that sustain biomedical research in areas that are relevant to the NIH mission).

Diversity at all levels—from the kinds of science to the regions in which it is conducted to the backgrounds of the people conducting it—contributes to excellence in research training environments and strengthens the research enterprise. This FOA is intended to support outstanding research training programs that will enhance diversity in the biomedical research workforce. As part of NIGMS’ strategy to support the development of a diverse pool of well-trained biomedical scientists across the training pathway, the Bridges to the Doctorate Research Training Program will support trainees enrolled full-time at institutions with terminal master’s degrees in the biomedical sciences to transition into and complete biomedically relevant Ph.D. programs within partnering research-intensive institutions.

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

Letter of Intent: Not Applicable

Proposal Submission Deadline: September 28, 2021

Contact: Sydella Blatch, Ph.D.; National Institute of General Medical Sciences (NIGMS); Email: sydella.blatch@nih.gov

Grant Program: BRAIN Initiative: Targeted BRAIN Circuits Projects- TargetedBCP (R01 Clinical Trial Not Allowed)

Agency: National Institutes of Health RFA-NS-21-013

RFP Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-21-013.html>

Brief Description: The primary goal of this FOA is to solicit research projects that seek to understand how circuit activity gives rise to mental experience and behavior using innovative, methodologically-integrated approaches. Applicants should seek to demonstrate how new and advanced experimental capabilities, integrated methodology, and multidisciplinary expertise can be used to transform the general understanding of neural information processing within the context of specific systems or circuits. This FOA instructs applicants and reviewers that projects more adventurous and innovative than traditional NIH applications are encouraged. Experimental goals should focus on questions of fundamental neurobiology that informs how the normal nervous system works, and can include natural and experimental perturbations that provide mechanistic tests about circuit functions. Projects must include a quantifiable behavior, or behavior of a well-defined neural system. Approaches must offer to identify,

record, and/or manipulate identified circuits involved in the behavior with sufficient coverage to capture circuit level dynamics and mechanisms beyond individual cells or synapses. Model-driven experimental design and/or computational approaches should be used to frame mechanistic questions about circuit functions. Results must include a predictive model at a computational or conceptual level of understanding. Multi-scale approaches, from biophysics to social contexts, are encouraged to enable an understanding of mechanisms at the meso-scale, circuit level. Diverse species or experimental systems and a cross-species/comparative approach are welcome and should be chosen based on their power to address the specific question at hand and to reveal generalizable and fundamental principles.

Targeted BRAIN Circuit Project R01 awards will support an individual laboratory or a small multi-PD/PI team. Supported projects will reflect the NIH BRAIN Initiative interests in the application of cutting-edge methodologies in the service of understanding central nervous system circuit function at cellular and sub-second levels of resolution in ethologically relevant behaviors of an organism or a well-defined neural system. Applications should offer specific, feasible, and potentially transformative research goals as endpoints within a 5-year term.

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

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

Proposal Submission Deadline: July 07, 2021; November 10, 2021

Contact: Karen K David, PhD

National Institute of Neurological Disorders and Stroke (NINDS); Telephone: 301-496-9964; Email: BRAINCircuits@NIH.GOV

Grant Program: NINDS Faculty Development Award to Promote Diversity in Neuroscience Research (K01 Clinical Trial Required)

Agency: National Institutes of Health PAR-21-153

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-21-153.html>

Brief Description: The objective of the NIH Mentored Research Scientist Development Award (K01) is to provide salary and research support for a sustained period of “protected time” (3-5 years) for intensive research career development, under the guidance of an experienced mentor, or sponsor in the biomedical, behavioral or clinical sciences leading to research independence. The expectation is that, through this sustained period of research career development and training, awardees will launch independent research careers and become competitive for new research project grant (e.g., R01) funding.

The purpose of the Faculty Development Award to Promote Diversity in Neuroscience Research is to support an intensive, supervised career development and scientific mentoring experience for promising junior investigators (who are 1) in first 3 years of a faculty tenure track or equivalent position at the time of application or 2) have an offer for a first-time tenure-track or equivalent faculty position that will begin by time of award) from diverse backgrounds, including those from groups underrepresented in biomedical research. The proposed career development experience is expected to substantially contribute to the research capabilities of the applicant, provide protected time from teaching/other duties and provide resources to hone skills in grant writing and publication of high impact research.

Awards: Award budgets are composed of salary and other program-related expenses.

Letter of Intent: Not Applicable

Proposal Submission Deadline: NIH [standard due dates](#)

Contact: Michelle Jones-London, Ph.D.; National Institute of Neurological Disorders and Stroke (NINDS); Telephone: 301-451-7966; Email: jonesmiche@ninds.nih.gov

Grant Program: BRAIN Initiative: Reagent Resources for Brain Cell Type-Specific Access and Manipulation to Broaden Distribution of Enabling Technologies for Neuroscience (U24 Clinical Trial Not Allowed)

Agency: National Institutes of Health RFA-MH-21-180

RFP Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-21-180.html>

Brief Description: The NIH BRAIN Initiative recognizes that diverse teams working together and capitalizing on innovative ideas and distinct perspectives outperform homogeneous teams. There are many benefits that flow from a diverse scientific workforce, including: fostering scientific innovation, enhancing global competitiveness, contributing to robust learning environments, improving the quality of the research, advancing the likelihood that underserved populations participate in, and benefit from research, and enhancing public trust.

To support the best science, the NIH BRAIN Initiative encourages inclusivity in research. Examples of structures that promote diverse perspectives include but are not limited to:

- Transdisciplinary research projects and collaborations among neuroscientists and researchers from fields such as computational biology, physics, engineering, mathematics, computer and data sciences, as well as bioethics.
- Engagement from different types of institutions and organizations (e.g., research-intensive, undergraduate-focused, minority-serving, community-based).
- Individual applications and partnerships that enhance geographic and regional heterogeneity.
- Investigators and teams composed of researchers at different career stages.
- Participation of individuals from diverse backgrounds, including groups traditionally underrepresented in the biomedical, behavioral, and clinical research workforce (see [NOT-OD-20-031](#)), such as underrepresented racial and ethnic groups, those with disabilities, those from disadvantaged backgrounds, and women.
- Project-based opportunities to enhance the research environment to benefit early- and mid-career investigators.

The NIH also encourages businesses to participate in the BRAIN Initiative. It is possible for companies to submit applications directly to BRAIN Initiative program announcements or to collaborate with academic researchers in joint submissions. Small businesses should consider applying to one of the [BRAIN Initiative small business FOAs](#).

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

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

Proposal Submission Deadline: November 23, 2021

Contact: Douglas S. Kim, Ph.D.; National Institute of Mental Health ([NIMH](#)); Telephone: 301-827-6463
Email: douglas.kim@nih.gov

Grant Program: Innovative Programs to Enhance Research Training (IPERT) (R25 Independent Clinical Trial Not Allowed)

Agency: National Institutes of Health PAR-21-196

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-21-196.html#>

Brief Description: The overarching goal of this R25 program is to support educational activities that complement and/or enhance the training of a workforce to meet the nation's biomedical, behavioral and clinical research needs.

The goal of the Innovative Programs to Enhance Research Training (IPERT) initiative is to enable the scientific community to develop and implement innovative educational activities to equip diverse cohorts of participants with technical, operational or professional skills required for careers in the biomedical research workforce, by effectively integrating the required core elements described below:

- **Courses for Skills Development:** For example, support for short courses designed to develop technical (e.g., appropriate and safe methods, technologies, and quantitative/computational approaches), operational (e.g., independent knowledge acquisition, rigorous experimental design, and interpretation of data) and/or professional (e.g., management, leadership, communication, and teamwork) skills necessary to conduct rigorous and reproducible research, and to transition successfully into careers in the biomedical research workforce. These courses could be in-person or provided electronically. Dissemination of educational materials and outreach activities to benefit individuals from a variety of backgrounds are required components of the program.
- **Mentoring Activities:** For example, activities designed to provide career information, advice, and support to research-oriented undergraduates, graduate students, postdoctoral fellows, or independent faculty in biomedical fields. The activities should provide participants with a perspective on the biomedical research training pathway and tools for overcoming challenges, navigating career transition points, and successfully transitioning into careers in the biomedical research workforce.

Through this funding announcement, NIGMS intends to encourage innovative biomedical research education activities designed to keep pace with the rapid evolution of the research enterprise that is increasingly complex, interdisciplinary, and collaborative. As the scientific enterprise has expanded, there is greater variation in the backgrounds of people participating, approaches taken to investigate research questions, and the range of the careers in the biomedical research workforce that Ph.D. recipients are pursuing. There is also an increasing recognition of the need to enhance reproducibility of biomedical research results through scientific rigor and transparency and to reinforce the principles of the responsible conduct of research. This FOA is intended to enable the scientific community to develop and implement innovative activities that will provide high-quality skills development, mentoring, and outreach to equip diverse cohorts of participants with technical, operational or professional skills required for careers in the biomedical research workforce.

The IPERT activities must be open to the broader biomedical community and not be restricted to individuals from a single department, program or institution. NIGMS encourages applications that are intended for individuals in a variety of biomedical fields; however, if a scientific area is described, it must be within the [NIGMS mission](#).

The activities may focus on individuals at a particular research career stage or at a range of career stages. NIGMS will support programs designed for research-oriented individuals from the undergraduate to independent faculty stages. Programs designed for pre-college participants should utilize the [Science Education Partnership Awards \(SEPA\)](#) funding opportunities rather than the IPERT.

Awards: Application budgets should reflect the actual needs of the proposed project and are limited to \$500,000 per year in direct costs.

Letter of Intent: Not Applicable

Proposal Submission Deadline: October 14, 2021; October 14, 2022; October 13, 2023

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: Edgardo Falcón Ph.D.; National Institute of General Medical Sciences (NIGMS)
Email: edgardo.falcon@nih.gov

Grant Program: Research on Autism Spectrum Disorders (R21 Clinical Trial Optional)

Agency: National Institutes of Health PA-21-200

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PA-21-200.html>

Brief Description: The purpose of this Funding Opportunity Announcement (FOA) is to encourage research grant applications to support research designed to elucidate the etiology, epidemiology, diagnosis, and optimal means of service delivery in relation to Autism Spectrum Disorders (ASD). The R21 grant mechanism is intended to encourage exploratory/developmental research by providing support for the early and conceptual stages of project development. Exploratory, novel studies that break new ground or extend previous discoveries toward new directions are appropriate for this mechanism. No preliminary data are required but may be included if available.

Autism Spectrum Disorders share a cluster of impairments in social communication, as well as the presence of restricted/stereotyped behavior, interests, or activities. These complex disorders are usually of lifelong duration and affect multiple aspects of development, learning, and adaptation at home and in the community, thus representing a pressing public health need. The etiologies of these disorders are not yet understood, but may include a combination of genetic and environmental influences. Basic research into the pathophysiology of ASD, including research on brain mechanisms, is of special interest. Also of high priority are clinical and applied investigations that may lead to the development of new treatments and interventions.

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 Applicable

Proposal Submission Deadline: NIH [standard due dates](#)

Contact: Lisa Gilotty, Ph.D.; National Institute of Mental Health ([NIMH](#))
Phone: 301-443-3825; E-mail: gilottyl@mail.nih.gov

Grant Program: NLM Institutional Grants for Research Training in Biomedical Informatics and Data Science (T15 Clinical Trial Not Allowed)

Agency: National Institutes of Health RFA-LM-21-001

RFP Website: <https://grants.nih.gov/grants/guide/rfa-files/RFA-LM-21-001.html>

Brief Description: The purpose of the National Library of Medicine (NLM) Institutional Training Program in Biomedical Informatics and Data Science is to support pre-doctoral and post-doctoral training for research careers in biomedical informatics and data science. Applications may be for the creation of entirely new training programs or for the renewal of existing NLM training program grants. NLM's training programs help meet the growing need for investigators trained in biomedical computing, data science and related information fields as they directly relate to application domains in health and biomedicine, including health care delivery, basic biomedical research, clinical and translational research, public health and similar areas. Biomedical informatics and data science training is, by its nature, interdisciplinary. Trainees will come to these programs with a range of educational and professional backgrounds and receive the training they need to prepare them for research careers in biomedical informatics and data science. More information about NLM's existing training programs is available at <http://www.nlm.nih.gov/ep/GrantTrainInstitute.html>.

Awards: NLM intends to commit \$12,000,000 in FY 2022 to fund up to 16 awards.

Letter of Intent: Required by April 14, 2021

Proposal Submission Deadline: May 14, 2021

Contact: Jane Ye, PhD; National Library Of Medicine (NLM); Phone: (301) 594-4927
E-mail: yej@mail.nih.gov

Grant Program: Academic-Industrial Partnerships for Translation of Technologies for Diagnosis and Treatment (R01 - Clinical Trial Not Allowed)

Agency: National Institutes of Health PAR-21-166

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-21-166.html>

Brief Description: The purpose of this Funding Opportunity Announcement (FOA) is to stimulate efforts to translate scientific discoveries and engineering developments into methods or tools that address problems in basic research to understand disease, or in applied research to assess risk, detect, prevent, diagnose, treat, and/or manage disease. The rationale is to deliver new capabilities to meet evolving requirements for technologies and methods relevant to the advance of research and delivery of care in pre-clinical, clinical and non-clinical settings, domestic or foreign, for conditions and diseases within the missions of participating institutes.

This FOA specifies a partnership structure that is expected to help bridge gaps in knowledge and experience by engaging the strengths of academic, industrial, and other investigators. The partners on each application should establish an inter-disciplinary, multi-institutional research team to work in strategic alliance to implement a coherent strategy to develop and translate a solution to their chosen problem. They are expected to plan, design, and validate that the solution will be suitable for end users. Each partnership should include at least one academic and one industrial organization. Each partnership should plan to transition a technology, method, assay, device, and/or system from a demonstration of possibility to a status useful in the chosen setting. Funding may be requested to enhance, adapt, optimize, validate, and otherwise translate technologies that address problems in biology, pathology, risk assessment, diagnosis, treatment, and/or monitoring of disease status.

Awards: Application budgets are limited to \$499,000 (direct costs) per year for up to 5 years.

Letter of Intent: Not required

Proposal Submission Deadline: NIH [standard due dates](#)

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: Miguel R. Ossandon, Ph.D.; National Cancer Institute (NCI); Telephone: 240-276-5714

Email: ossandom@mail.nih.gov

[Back to Contents](#)

[Department of Defense/US Army/DARPA/ONR/AFOSR](#)

Grant Program: 2021 ERDC Broad Agency Announcement

Agency: Department of Defense US Army ERDC W912HZ-21-BAA-01

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=332617>

Brief Description: The U.S. Army Engineer Research and Development Center (ERDC) includes the Coastal and Hydraulics Lab (CHL), the Geotechnical and Structures Lab (GSL), the Reachback Operations Center (UROC), the Environmental Lab (EL) and the Information Technology Lab (ITL) in Vicksburg, Mississippi, the Cold Regions Research and Engineering Lab (CRREL) in Hanover, New Hampshire, the Construction Engineering Research Lab (CERL) in Champaign, Illinois, and the Geospatial Research Laboratory (GRL) in Alexandria, Virginia. The ERDC is responsible for conducting research in the broad fields of hydraulics, dredging, coastal engineering, instrumentation, oceanography, remote sensing, geotechnical engineering, earthquake engineering, soil effects, vehicle mobility, self-contained munitions, military engineering, geophysics, pavements, protective structures, aquatic plants, water quality, dredged material, treatment of hazardous waste, wetlands, physical/mechanical/ chemical properties of snow and other frozen precipitation, infrastructure and environmental issues for installations,

computer science, telecommunications management, energy, facilities maintenance, materials and structures, engineering processes, environmental processes, land and heritage conservation, and ecological processes. This research is conducted by Government personnel and by contract with educational institutions, non-profit organizations and private industries.

The BAA shall only be used when meaningful proposals with varying technical/scientific approaches can be reasonably anticipated. “Basic Research” is defined as research directed toward increasing knowledge in science with the primary aim being a fuller knowledge or understanding of the subject under study, rather than any practical application of that knowledge. “Applied Research” is the effort that normally follows basic research, but may not be severable from the related basic research; attempts to determine and exploit the potential of scientific discoveries or improvements in technology, materials, processes, methods, devices, or techniques; and attempts to advance the state-of-the-art.

Awards: Multiple awards. DARPA is limiting funding for TA2 awards to \$1,450,000 for the entire 18 months of Phase 1 and \$1,500,000 for the entire 18 months of Phase 2. Funding guidance is not provided for TA1.

Letter of Intent: A pre-proposal is required. Please see the BAA for details.

Proposal Deadline: The closing date for the BAA is Feb 28, 2022.

Contact Information: For contractual questions concerning proposals to CHL, EL, GRL, GSL, ITL, and UROC contact the following: ERDC-BAA@usace.army.mil and Reginald J. Bryant at 601-634-7166 or Reginald.J.Bryant@usace.army.mil or Anitra Wilson at Anitra.D.Wilson@usace.army.mil. For contractual questions concerning proposals to CERL contact: Andrea Thomas at 217-373-6746 or Andrea.J.Thomas@usace.army.mil. For contractual questions concerning proposals to CRREL contact: Melodie Fisher at 601-634-4687 or CRREL-BAA@usace.army.mil.

Grant Program: Quantum Benchmarking

Agency: Department of Defense DARPA - Defense Sciences Office HR001121S0026

Website: <https://beta.sam.gov/opp/b421419cb4d0485baf0c28ee62a9e7b0/view>

Brief Description: The Defense Sciences Office (DSO) at the Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals in the area of quantum benchmarking. Proposed research should quantify the long-term utility of quantum computers. In particular, proposed research should center around either (1) the creation of application-specific, hardware-agnostic benchmarks for quantum computer utility or (2) hardware resource estimation for quantum computers. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of practice.

Awards: Multiple awards. DARPA is limiting funding for TA2 awards to \$1,450,000 for the entire 18 months of Phase 1 and \$1,500,000 for the entire 18 months of Phase 2. Funding guidance is not provided for TA1.

Letter of Intent: Please see below.

Proposal Deadline: Proposers Day: April 20, 2021. See Section VIII.A. o Abstract Due Date: May 11, 2021, 4:00 p.m. o FAQ Submission Deadline: June 8, 2021, 4:00 p.m. See Section VIII.B. o Full Proposal Due Date: June 22, 2021, 4:00 p.m.

Contact Information: Joseph Altepeter, Program Manager, DARPA/DSO o BAA Email: QuantumBenchmarking@darpa.mil

Grant Program: Peer Reviewed Orthopaedic Research Program: Clinical Translational Research Award

Agency: Department of Defense Dept. of the Army – USAMRAA W81XWH-21-PRORP-CTRA

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=332532>

Brief Description: The PRORP CTRA is intended to support high-impact and/or new/emerging clinical research that may or may not be ready for a full-scale randomized controlled clinical trial. Projects should demonstrate potential to impact the standard of care, both immediate and long-term, as well as contribute to evidence-based guidelines for the evaluation and care of military, Veteran, and all patients with orthopaedic injuries. • One goal of the FY21 PRORP CTRA is to translate current and emerging techniques and interventions into the clinical space to better serve military patients. The health, functional abilities, and quality of life of individuals who have sustained an orthopaedic injury should be considered. • Another goal is to identify the most effective diagnosis, treatment, rehabilitation, and prevention options available to support critical decision-making for patients, clinicians, other caregivers, and policymakers.

Awards: The anticipated total costs budgeted for the entire period of performance for an FY21 PRORP CTRA will not exceed \$1.5M. The CDMRP expects to allot approximately \$7.5M to fund approximately five Clinical Translational Research Award applications.

Letter of Intent: Please see below.

Proposal Deadline: Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), May 27, 2021 • Invitation to Submit an Application: July 2, 2021 • Application Submission Deadline: 11:59 p.m. ET, September 10, 2021

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

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

Agency: Department of Defense Dept. of the Army – USAMRAA W81XWH-21-SCIRP-IIRA

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=332299>

Brief Description: The vision of the SCIRP is to advance the treatment and management of SCI and ameliorate its consequences relevant to injured Service Members. The FY21 SCIRP challenges the scientific community to design research that will advance the development or translation of healthcare solutions for people living with SCI. Innovative research that fosters new directions or addresses neglected issues in the field of traumatic SCI is also supported, although studies focused exclusively on target identification are discouraged. The SCIRP encourages impactful research across the continuum of care from time-of-injury throughout life that is well reasoned and scientifically supported.

Awards: The anticipated direct costs budgeted for the entire period of performance for an FY21 SCIRP IIRA award will not exceed \$500,000.

Letter of Intent: Please see below.

Proposal Deadline: Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), May 24, 2021 • Invitation to Submit an Application: July 2, 2021 • Application Submission Deadline: 11:59 p.m. ET, September 3, 2021

Contact Information: Office of Naval Research Dr. Joan S. Cleveland Email: joan.cleveland@navy.mil; Army Research Office DR. Larry Russel Jr. Email: usarmy.rtp.ccdc-arl.mbx.aro-muri@mail.mil; Air Force Office of Scientific Research Ms. Katie Wisecarver Email: MURI@us.af.mil

Grant Program: 2022 Department of Defense Multidisciplinary Research Program of the University Research Initiative (MURI)

Agency: Department of Defense Dept of the Army -- Materiel Command W911NF-21-S-0008

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=332299>

Other Related MURI Opportunities:

MURI ONR Announcement # N00014-21-S-F003

MURI AFOSR Announcement # FOA-AFRL-AFOSR-2021-0003

Brief Description: The MURI program supports basic research in science and engineering at U.S. institutions of higher education (hereafter referred to as "universities") that is of potential interest to DoD. The program is focused on multidisciplinary research efforts where more than one traditional discipline interacts to provide rapid advances in scientific areas of interest to the DoD. As defined in the DoD Financial Management Regulation: Basic research is systematic study directed toward greater knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications towards processes or products in mind. It includes all scientific study and experimentation directed toward increasing fundamental knowledge and understanding in those fields of the physical, engineering, environmental, and life sciences related to longterm national security needs. DoD's basic research program invests broadly in many fields to ensure that it has early cognizance of new scientific knowledge.

Awards: The total funding available: \$190 million Typical funding per grant: \$1.25M to \$1.5M range.

Letter of Intent: Please see below.

Proposal Deadline: White Paper Inquiries and Questions: 24 May 2021 (Monday)

White Papers must be received no later than: 7 June 2021 (Monday) at 11:59 PM Eastern Time

Application Inquiries and Questions: 13 September 2021 (Monday)

Applications must be received no later than: 27 September (Monday) at 11:59 PM Eastern Time

Contact Information: Office of Naval Research Dr. Joan S. Cleveland Email:

joan.cleveland@navy.mil; Army Research Office Dr. Larry Russel Jr. Email: usarmy.rtp.cdcd-arl.mbx.aro-muri@mail.mil; Air Force Office of Scientific Research Ms. Katie Wisecarver Email: MURI@us.af.mil

Grant Program: Prevention or Reduction of Risk/Severity to Traumatic Brain Injuries

Agency: Department of Defense DARPA W81XWH-21-RFI-TJK2

Website: https://beta.sam.gov/opp/b7d62c11b37e48c4a4c411584a49dad2/view?index=opp&sort=-modifiedDate&page=1&keywords=wearable&date_filter_index=0&inactive_filter_values=false

Brief Description: The Warfighter Brain Health Project Management Office of the United States Army Medical Materiel Device Activity is currently seeking information on wearable Traumatic Brain Injury (TBI) prevention medical device technologies with a Technology Readiness Level (TRL) 4 or above (utilizing chart located in reference section of the attached expanded sources sought document) that are designed with the intent of preventing of and/or reduction of the risk/severity of TBI and achieving future U.S. FDA clearance. Ultimately, these technology candidates must be suitable for field/operational use by U.S. Service Members. Identification of medical device technologies with such capabilities are essential to protect the warfighter and is vital to force protection and strength. The primary capability gap and areas of interest is related to wearable TBI prevention medical devices that aid in preventing brain injuries that include, but are not limited to: Technologies that can be safely worn by U.S. Service members for extended periods and will prevent and/or lessen the risk/severity of TBI's when a Service Member is exposed to a potential concussive event(s) (ex: Blast, blunt, accelerative injury). The ideal medical device technology should be easily applied by front line users (eg: Infantry), safe, and not inhibit range of motion, impact health experienced on the battlefield, exacerbate injuries (ex: penetrating head injuries).

Awards: Contract

Letter of Intent: Please see below.

Proposal Deadline: Jun 09, 2021

Contact Information: Timothy Kelly timothy.j.kelly169.civ@mail.mil Phone Number 301-619-7806

[Back to Contents](#)

[Department of Transportation](#)

Grant Program: Dwight David Eisenhower Transportation Fellowship Program (DDETFP) Graduate Fellowship

Agency: Department of Transportation 693JJ318NF5227-2021

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=331800>

Brief Description: The goals of these Grants are to provide DDETFP Graduate Fellowships to 1) attract the Nation's brightest minds to the field of transportation, 2) enhance the careers of transportation professionals by encouraging them to seek advanced degrees, and 3) bring and retain top talent in the transportation industry of the U.S.

Individual students apply for the DDETFP Graduate Fellowship. The FHWA makes awards to the Institution of Higher Education (IHE) (“Recipient”) on behalf of the student (“Student Designee”). The IHE must be accredited by a federally-recognized accrediting agency and must be located within the United States or its Territories. If a student is selected to receive a fellowship, the student, their faculty advisor, and the IHE will be responsible for completing and submitting all required paperwork to execute the Agreement. Students must be prepared to submit a copy of their application package and this Notice of Funding Opportunity (NOFO) to their IHE. The Recipient will be responsible for allocating funds to the Student Designee as outlined in the Budget of the Agreement. The IHE will also be responsible for submitting all required Federal financial reports to FHWA.

Award: The FHWA expects approximately \$1 million to be made available for the DDETFP Graduate Fellowship program.

Letter of Intent: Not Required

Proposal Deadline: Apr 30, 2021 Application deadline is 4/30/2021 at 5:00pm Eastern Time.

Contact Information: Ewa Flom, ewa.flom@dot.gov, 202-924-1125

[Back to Contents](#)

[Department of Agriculture:](#)

Grant Program: Data and Technical Assistance (DATA) Grants Program

Agency: Department of Agriculture Food and Nutrition Service USDA-FNS-SNAP-21-DATA

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=331666>

Brief Description: The purpose of the SNAP E&T Data and Technical Assistance (DATA) Grants is to support the development of State SNAP E&T data collection and reporting systems. FNS is interested in funding projects that improve States’ ability to use administrative data, such as Quarterly Wage Record (QWR) information, as the source for employment and earnings of E&T participants and former participants, because it is the preferred and most reliable and efficient method to meet reporting requirements. States using random sampling to gather information are doing so as an interim approach until systems to use administrative data are in place. Therefore, proposals that include random sampling of participants or former participants as a long term strategy will not be considered.

Awards: Up to \$1,000,000; Anticipated Available Funding: \$3,000,000.

Proposal Deadline: April 29, 2021

Contact Information: Anna J Arrowsmith Grants Officer [Anna Arrowsmith](#)

Grant Program: Agriculture and Food Research Initiative - Foundational and Applied Science

Agency: Department of Agriculture USDA-NIFA-AFRI-007692

Website: <https://nifa.usda.gov/funding-opportunity/agriculture-and-food-research-initiative-foundational-applied-science-program>

Brief Description: The AFRI Foundational and Applied Science Program supports grants in six AFRI priority areas to advance knowledge in both fundamental and applied sciences important to agriculture. The six priority areas are: Plant Health and Production and Plant Products; Animal Health and Production and Animal Products; Food Safety, Nutrition, and Health; Bioenergy, Natural Resources, and Environment; Agriculture Systems and Technology; and Agriculture Economics and Rural Communities. Research-only, extension-only, and integrated research, education and/or extension projects are solicited in this Request for Applications (RFA). See Foundational and Applied Science RFA for specific details.

Letter of Intent: Required.

Awards: Up to \$15,000,000; Anticipated available funding: \$290,000,000

Proposal Deadline: Thursday, July 29, 2021

Contact Information: [AFRI Coordination Team](#)

[Back to Contents](#)

Department of Labor

Grant Program: State Apprenticeship Expansion, Equity and Innovation (SAEEI) Grant Program

Agency: Department of Labor FOA-ETA-21-07

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=331689>

Brief Description: The SAEEI Funding Opportunity Announcement FOA will provide up to \$87.5 million in grant awards to support the expansion and diversification of Registered Apprenticeship Programs (RAPs), as described in 29 C.F.R. 29. Grant funds will be awarded to Governor-led, state initiatives that are expanding, diversifying and transforming registered apprenticeship. Funding will provide states with the flexibility to meet specific industry needs and demands. Collectively, these efforts will aim to achieve the following goals:

- 1) System expansion to support the development, modernization, and diversification of RAPs;
- 2) Equity in apprenticeship by increasing the number of apprentices enrolled in RAPs, including underrepresented populations; and
- 3) Partnership and alignment to support workforce system integration;
- 4) Innovation in program development and recruitment strategies.

Allowable activities under this grant include activities related to establishing or expanding existing RAPs for adults and/or youth, pre-apprenticeship leading to a RAP, and wrap-around/supportive services.

Awards: FOA will provide up to \$87.5 million in grant awards.

Proposal Deadline: This advance notice is to encourage potential applicants to begin forming partnerships and other early preparations to improve readiness for when the Funding Opportunity Announcement (FOA) is published. This is not a grant solicitation, and is for informational purposes only. Eligibility, scoring criteria, and other requirements for application will be outlined in full in the upcoming FOA in the spring of 2021.

Contact Information: Matthew Carls Grants Management Specialist, Carls.Matthew.L@dol.gov

[Back to Contents](#)

[Department of Commerce/EDA](#)

Grant Program: EDA University Center Competition - CRO

Agency: U.S. Department of Commerce EDA-CHI-TA-CRO-2021-2006893

Website: <https://www.eda.gov/programs/university-centers/>

Brief Description: EDA recognizes that institutions of higher education are critical players in the development of vibrant economic ecosystems. Universities are sources of significant economic development assets—such as faculty, staff, students, research and proof of concept centers, laboratories, and high-speed broadband networks—that can support regional economic growth.

The purpose of EDA’s University Center program is to enable institutions of higher education and consortia of institutions of higher education to establish and operate University Centers (UCs) specifically focused on leveraging university assets to build regional economic ecosystems that support innovation and high-growth entrepreneurship, resiliency and inclusiveness. By responding to the economic development needs of their regions, University Center programs are demand-driven by nature. Historically, UCs have been leaders in promoting and facilitating economic development in their regions. They have been among the first to recognize emerging technical assistance needs. As early as FY 1980, EDA-funded UCs responded to the needs of small- and medium-sized manufacturers and processors for technology transfer and commercialization assistance. More recently, some UCs have been providing resources and guidance on how to create a digitally inclusive economy while others are working with stakeholders in their regions to address economic impacts from the closure of major plants.

Awards: Project funding up to \$200,000. Anticipated available funding: \$1,400,000

Letter of Intent: Contact the program director.

Proposal Deadline: June 4, 2021

Contact Information: www.eda.gov/contact

Grant Program: NOAA Science Collaboration Program

Agency: U.S. Department of Commerce National Oceanic and Atmospheric Administration (NOAA) NOAA-OAR-CPO-2021-2006797

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=332046>

Brief Description: The NOAA Science Collaboration Program (NSCP) supports research, programs, projects and other activities related to NOAA’s mission, primarily through collaborations among scientists and professionals in areas of mutual interest across the full spectrum of NOAA sciences. This includes the support of undergraduate, graduate, and postdoctoral researchers and scientists with expertise in NOAA-related sciences. It is expected that some of the scientists will collaborate onsite at NOAA facilities and laboratories. Through this funding opportunity, NOAA is also interested in supporting complementary Earth systems research and modeling efforts, social science and interdisciplinary research efforts which can serve as a catalyst for collaborations between NOAA professionals and scientists supported through this program.

Awards: The total NOAA funding amount available for the NSCP is anticipated to be approximately \$10,000,000 to \$15,000,000 per year or a total of \$50,000,000 to \$75,000,000 for the five-year period.

Letter of Intent: Contact the program director.

Proposal Deadline: May 10, 2021

Contact Information: Ms. Kendra R. Hammond 301-734-1223 [Work](#)

Grant Program: Measurement Science and Engineering (MSE) Research Grant Programs

Agency: U.S. Department of Commerce NIST 2021-NIST-MSE-01

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=331121>

Brief Description: NIST is soliciting applications for financial assistance for Fiscal Year 2021 (FY21) within the following NIST grant programs:

- (1) the Associate Director for Innovation and Industry Services (ADIIS);
- (2) the Associate Director for Laboratory Programs (ADLP);
- (3) the Communications Technology Laboratory (CTL);
- (4) the Engineering Laboratory (EL);
- (5) Fire Research (FR);
- (6) the Information Technology Laboratory (ITL);
- (7) the International and Academic Affairs Office (IAAO);
- (8) the Material Measurement Laboratory (MML);
- (9) the NIST Center for Neutron Research (NCNR);
- (10) the Physical Measurement Laboratory (PML);
- (11) the Special Programs Office (SPO); and
- (12) the Standards Coordination Office (SCO).

Awards: Various; Grants or cooperative agreements

Letter of Intent: Contact the program director.

Proposal Deadline: Applications will be accepted and considered on a rolling basis as they are received.

Contact Information: Misty L Roosa Management Analyst Phone 301-975-3007

[Agency Contact](#)

Grant Program: FY2021 to FY2023 NOAA Broad Agency Announcement (BAA)

Agency: U.S. Department of Commerce NOAA-NFA-NFAPO-2021-2006626

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=329261>

Brief Description: This Broad Agency Announcement is a mechanism to encourage research, education and outreach, innovative projects, or sponsorships that are not addressed through NOAA's competitive discretionary programs. This announcement is not soliciting goods or services for the direct benefit of NOAA. Funding for activities described in this notice is contingent upon the availability of Fiscal Year 2021, Fiscal Year 2022, and Fiscal Year 2023 appropriations. Applicants are hereby given notice that funds have not yet been appropriated for any activities described in this notice. Publication of this announcement does not oblige NOAA to review an application beyond an initial administrative review, or to award any specific project, or to obligate any available funds. As an agency with responsibilities for maintaining and improving the viability of marine and coastal ecosystems, for delivering valuable weather, climate, and water information and services, for understanding the science and consequences of climate change, and for supporting the global commerce and transportation upon which we all depend, NOAA must remain current and responsive in an ever-changing world.

Awards: Contingent to the availability of funds.

Letter of Intent: Contact the program director.

Proposal Deadline: Applications can be submitted on a rolling basis starting from the publication date of this Broad Agency Announcement up to 11:59:59 p.m., Eastern Daylight Time on September 30, 2023.

Contact Information: Mr. Lamar Dwayne Revis, 301-628-1308, lamar.revis@noaa.gov

[Back to Contents](#)

[EPA](#)

Grant Program: Early Career: Measurement and Monitoring Methods for Air Toxics and Contaminants of Emerging Concern in the Atmosphere

Agency: Environmental Protection Agency EPA-G2021-STAR-C2

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=332406>

Brief Description: The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing research to advance air measurement and monitoring methods for air toxics and contaminants of emerging concern in the atmosphere. Specifically, this RFA seeks research that will provide: 1. advancements in measurement techniques for real time, continuous measurements of concentrations with minimum detection limits below background concentrations or health risk-based thresholds; and 2. advancements in stationary or mobile near source measurement methods for quantifying emission rates of fugitive emissions.

Award: Grant or cooperative agreement up to \$800,000. Anticipated Funding Amount: Approximately \$2.4 million total for all awards

Submission Deadline: Solicitation Closing Date: June 2, 2021, 11:59:59 pm Eastern Time

Contact: Technical Contact: Serena Chung; phone: 202-564-6069; email: chung.serena@epa.gov

[Back to Contents](#)

[Department of Energy](#)

Grant Program: University-Based Energy Industry Research and Development of Scalable Cyber-Physical Solutions

Agency: Department of Energy Office of Science DE-FOA-0002477

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=332620>

Brief Description: This FOA seeks to improve the cyber and cyber-physical security posture of the electric sector through the integration of the DOE Cybersecurity Roadmap Vision statement of ensuring that resilient energy delivery systems are designed, installed, operated, and maintained to survive a cyber incident while sustaining critical functions.

Awards: Award Ceiling: \$2,000,000; Estimated Total Program Funding: \$8,000,000

Submission Deadline: June 14, 2021

Contact: Shane R. Buchanan 412-386-4716 [Click to email contact](#)

Grant Program: Data-Intensive Scientific Machine Learning and Analysis

Agency: Department of Energy Office of Science DE-FOA-0002493

Website: <https://science.osti.gov/ascr/Funding-Opportunities>

Brief Description: The DOE SC program in Advanced Scientific Computing Research (ASCR) hereby announces its interest in research applications to explore potentially high-impact approaches in the development and use of artificial intelligence (AI) and machine learning (ML) for scientific insights from massive data generated by simulation, experiments, and observations.

Awards: DOE anticipates that, subject to the availability of future year appropriations, a total of \$21,000,000 in current and future fiscal year funds will be used to support awards under this FOA.

Letter of Intent: Please see below.

Submission Deadline: Submission Deadline for Pre-Applications: April 23, 2021 at 5:00 PM Eastern Time A Pre-Application is required. Pre-Application Response Date: May 3, 2021 Submission Deadline for Applications: May 27, 2021 at 5:00 PM Eastern Time
Contact: Dr. Steven L. Lee Steven.Lee@science.doe.gov

Grant Program: Data Science to Advance Chemical and Materials Sciences

Agency: Department of Energy DE-FOA-0002474

Website: <https://www.grants.gov/web/grants/view-opportunity.html?oppId=332227>

Brief Description: The DOE SC program in Basic Energy Sciences (BES) announces its interest in receiving new applications from teams of investigators expanding the integration of data science methods with BES research disciplines, to accelerate scientific discovery and overcome difficult challenges in these fields. This FOA is focused on new applications that will take advantage of the rapid growth of data science, including artificial intelligence (AI) and machine learning (ML) methodologies. The FOA will support teams of investigators for synergistic computational, experimental, and theoretical research covered by the research areas in the BES divisions of Chemical Sciences, Geosciences, and Biosciences (CSGB) and Materials Sciences and Engineering (MSE). The focus of the proposed research must be on science-based, data-driven approaches enabling solutions for fundamental basic energy sciences challenges not possible otherwise. The goal of the application should be to integrate novel data science, uncertainty quantification, and other AI and ML approaches with domain sciences to uniquely advance the understanding of fundamental properties and processes relevant to chemical and materials systems and achieve predictability of functions and behavior under dynamic conditions.

Awards: Various; Anticipated Available Funding: \$23,000,000

Letter of Intent: Please see below.

Submission Deadline: Submission Deadline for Pre-Applications: April 14, 2021 at 5:00 PM Eastern Time A Pre-Application is required Pre-Application Response Date: May 5, 2021 Submission Deadline for Applications: June 1, 2021 at 11:59 PM Eastern Time

Contact: Dr. Raul Miranda Program Manager raul.miranda@science.doe.gov

[Back to Contents](#)

[NASA](#)

Grant Program: ROSES 2021: Heliophysics Mission Concept Studies

Agency: NASA NNH21ZDA001N-HMCS

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?sollId=%7B39554337-ED9A-7C4F-EC92-DCB9DC510DDE%7D&path=&method=init>

Brief Description: The Heliophysics Mission Concept Studies (HMCS) program will fund six-month-long mission concept studies that are part of community preparation for the next Solar and Space Physics Decadal Survey. These studies will be conducted by the proposal team, using mission design capabilities included in the proposal, and will result in a final mission concept report delivered to NASA. Additionally, NASA will support awardees submitting and briefing the mission concept to the Decadal Survey Committee ("the Committee" see Section 2.2). Should NASA choose to develop a mission that flows from any selected mission concept study, the responsibility for that mission will be assigned by NASA; there is no expectation that the mission concept study team or participating organizations will necessarily participate in the eventual mission development.

Awards: It is expected that there will be approximately \$2.5 M available to support new mission concept studies selected through this program element.

Notice of Intent: Notices of intent are due April 23, 2021

Proposal Deadline: May 28, 2021

Contact: Jared Leisner Heliophysics Division Science Mission Directorate NASA Headquarters Washington, DC 20546-0001 Telephone: (202) 358-2016 Email: jared.s.leisner@nasa.gov

Grant Program: ROSES 2021: Living With a Star Science

Agency: NASA NNH21ZDA001N-LWS

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BDD29C108-980F-6F1A-AEC7-CE7375E35007%7D&path=&method=init>

Brief Description: The Living With a Star (LWS) Program emphasizes the science necessary to understand those aspects of the Sun and Earth's space environment that affect life and society. The ultimate goal of the LWS Program is to provide a scientific understanding of the system that leads to predictive capability of the space environment conditions at Earth, other planetary systems, and in the interplanetary medium. Every year the LWS Program solicits Focused Science Topics (FSTs) that address some part of this goal.

This goal poses two great challenges for the LWS program. First, the program seeks to address large-scale problems that cross discipline and technique boundaries (e.g., data analysis, theory, modeling, etc.); and second, the program will identify how this new understanding has a direct impact on life and society. Over time, the Targeted Investigations have provided advances in scientific understanding that address these challenges.

Awards: TBD

Notice of Intent: Please see below

Proposal Deadline: Step-1 proposals are due September 8, 2021, and Step-2 proposals are due November 18, 2021.

Contact: Simon Plunkett Telephone: (202) 358-2034 Email: simon.p.plunkett@nasa.gov

Jeff Morrill Telephone: (202) 358-3744 Email: jeff.s.morrill@nasa.gov

Grant Program: New (Early Career) Investigator Program in Earth Science: not solicited in ROSES-21

Agency: NASA NNH21ZDA001N-NIP

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BC31820ED-A589-B008-7448-1014FCA16C49%7D&path=&method=init>

Brief Description: The New (Early Career) Investigator Program 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 program supports all aspects of scientific and technological research aimed to advance NASA's mission in Earth system science (See the Science Plan at <http://science.nasa.gov/about-us/science-strategy/>). In research and analysis, the focus areas are: • Carbon Cycle and Ecosystems, • Climate Variability and Change, • Water and Energy Cycle, • Atmospheric Composition, • Weather, and • Earth Surface and Interior

Awards: TBD

Notice of Intent: Please see below

Proposal Deadline: This program is NOT soliciting proposals this year. The 'close date' of 02/14/2022 advertised above is not a proposal due date; NSPIRES requires that a specific close date be given. Please see the program element document above for details.

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: Earth Science Applications: Health and Air Quality

Agency: NASA NNH21ZDA001N-HAQ

Website: <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B78D66990-C241-F2F9-5A15-BC02AD87C40D%7D&path=&method=init>

Brief Description: The ESD Applied Sciences Program promotes efforts to discover and demonstrate innovative and practical uses of Earth observations. The Program funds applied science research and applications projects to enable near-term uses of Earth observations, formulate new applications, integrate Earth observations and related products in practitioners' decision-making, and transition the applications. The projects are carried out in partnership with public- and private-sector organizations to achieve sustained use and sustained benefits from the Earth observations. For more information visit the Applied Sciences Program website at <http://AppliedSciences.NASA.gov/>. The Program supports projects that develop and demonstrate improvements to decision-making from the use of an array of Earth observations and related products. The Program considers that Earth observations broadly include a range of products and capabilities, including Earth-observing satellite measurements (NASA in-orbit and planned satellites, as well as foreign, commercial, and other U.S. Government satellites), outputs and predictive capabilities from Earth science models, algorithms, visualizations, knowledge about the Earth system, and other geospatial products. Hereinafter, this set is referred to collectively as "Earth observations".

Awards: \$3M total per year; Expected Range of Award per project: \$250-350K per year

Notice of Intent: Please see below

Proposal Deadline: June 18, 2021

Contact: John Haynes Applied Sciences Program Earth Science Division Science Mission Directorate NASA Headquarters Washington, DC 20546-0001 Telephone: (202) 358-4665 Email: jhaynes@nasa.gov

[Back to Contents](#)

[National Endowment of Humanities](#)

Grant Program: American Rescue Plan: Humanities Grantmaking

Agency: National Endowment for the Humanities 20210513-ARPG

Website: <https://www.neh.gov/program/american-rescue-plan-humanities-grantmaking>

Brief Description: The American Rescue Plan Act of 2021 recognizes that the humanities sector is an essential component of economic and civic life in the United States. The Act appropriated supplemental funding to NEH to provide financial support to organizations and individuals working in the humanities that have been adversely affected by the coronavirus pandemic and require support to restore and sustain their core functions and activities. In keeping with Congress's intent in enacting this legislation, proposals

under this notice should help humanities organizations and professionals to “prevent, prepare for, respond to, and recover from the coronavirus.”

The American Rescue Plan: Humanities Grantmaking program invites applications from organizations experienced at providing grants at a national or regional (i.e., multi-state) level to administer competitive grantmaking programs for humanities organizations *or* individuals who work in the humanities. Applicants may propose a new grantmaking program or to expand or adapt an existing program. The program may be for *either* organizations *or* for individuals, but not for both. The proposed grantmaking program may include multiple tracks for applicants (e.g., for junior scholars and senior scholars; for museums and archives). NEH especially encourages applications for grantmaking programs that promote diversity, equity, and inclusion in the humanities.

Program will host a [pre-application webinar](#) April 20, 2021, 2:00 p.m. Eastern Time.

Award: Maximum award amount : Up to \$2,000,000 for grantmaking programs for individuals; up to \$5,000,000 for grantmaking programs for organizations.

Proposal Deadline: Application due May 13, 2021

Contact: Contact the Agency-Wide Programs Team ARPgrantmaking@neh.gov

Grant Program: Digital Projects for the Public

Agency: National Endowment for the Humanities 20210609-MD-MN-MT

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

Brief Description: The Digital Projects for the Public program supports projects that interpret and analyze humanities content in primarily digital platforms and formats, such as websites, mobile applications and tours, interactive touch screens and kiosks, games, and virtual environments. All projects should demonstrate the potential to attract a broad, general, nonspecialist audience, either online or in person at venues such as museums, libraries, or other cultural institutions. Applicants may also choose to identify particular communities and groups, including students, to whom a project may have particular appeal. A recorded webinar for prospective applicants will be posted on this page by April 16, 2021.

Award: Maximum award amount \$30,000 (Discovery grants); \$100,000 (Prototyping grants); \$400,000 (Production grants)

Proposal Deadline: Optional Draft due May 5, 2021; Application due June 9, 2021

Contact: Contact the Division of Public Programs Team; 202-606-8269; publicpgms@neh.gov

Grant Program: Humanities Initiatives

Agency: National Endowment for the Humanities 20210520-AA-AB-AC-AD-AE

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

Brief Description: The National Endowment for the Humanities (NEH) Division of Education Programs is accepting applications for the five Humanities Initiatives programs: Humanities Initiatives at Colleges and Universities, Humanities Initiatives at Hispanic-Serving Institutions, Humanities Initiatives at Historically Black Colleges and Universities, Humanities Initiatives at Tribal Colleges and Universities, and Humanities Initiatives at Community Colleges. The purpose of these programs is to 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.

Award: Maximum award amount: \$150,000 per award; Available funding: \$3,000,000

Proposal Deadline: May 21, 2021

Contact: Division of Education Programs National Endowment for the Humanities 400 Seventh Street, SW Washington, DC 20506 202-606-2324 hi@neh.gov

Grant Program: Research and Development**Agency: National Endowment for the Humanities 20210518-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, archival records, material culture, and art. Applicants must demonstrate how advances in preservation and access through a Research and Development project would benefit the cultural heritage community by supporting humanities research, teaching, or public programming.

Research and Development projects are encouraged to address one or more of the following areas of special interest:

- **Preserving our audiovisual and digital heritage**
- **Conserving our material past**
- **Protecting our cultural heritage**
- **Serving under-represented communities**

For more information about the program, you may refer to the pre-recorded [webinar](#). Please note, the webinar was recorded in 2020 and therefore deadlines are outdated. An updated pre-recorded webinar for 2021 will be posted by March 4, 2021.

Award: Maximum award amount Tier I provides awards up to \$75,000; Tier II provides awards up to \$350,000

Proposal Deadline: Application due May 18, 2021

Contact: Division of Preservation and Access Team 202-606-8570; preservation@neh.gov

[Back to Contents](#)

[Private Foundations](#)**[New Jersey Commission on Spinal Cord Research](#)**

Grant Program: Exploratory Research Grants and Postdoctoral and Graduate Student Fellowship Research Grants

Agency: New Jersey Commission on Spinal Cord Research**Website:** <https://nj.gov/health/spinalcord/grant-information/>

Brief Description: The Commission's mission is to ensure that the people of New Jersey receive the utmost attention and benefit in our nation's fight against spinal cord injury and disease through its promotion of research into the treatment and cure.

The NJCSCR is committed to accelerating research to develop effective interventions and cures for paralysis and other consequences of spinal cord injury and disease. Its primary objectives are: • To advance the field of spinal cord repair and regeneration and the New Jersey research community by encouraging established scientists to apply their expertise to the spinal cord. • To facilitate the application of innovative ideas from other areas of science to the challenges of spinal cord injury repair. • To foster collaborative, interdisciplinary approaches to spinal cord research. • To nurture the next generation of spinal cord researchers through support of young scientists and postdoctoral fellows. • To prevent or treat secondary biological conditions resulting from spinal cord injury. • To promote dissemination of the research findings generated by those scientists supported by the NJCSCR.

Awards: Various

Letter of Intent: Not required

Proposal Deadline: Grant Applications must be submitted in SAGE by 3:00PM - May 3, 2021.

Contact: Research Program Guidelines: <https://nj.gov/health/spinalcord/documents/researchpgr.pdf>

American Diabetes Association (ADA)

Grant Program: The American Diabetes Association Health Disparities and Diabetes Research Award

Agency: American Diabetes Association (ADA)

Website: <https://professional.diabetes.org/content/targeted-rfas>

Brief Description: The American Diabetes Association (ADA) is requesting applications for research ([see RFA](#)) focused on the impact of diabetes on health disparities and the impact of health disparities on diabetes and its complications. For this funding opportunity, attention must focus on, and hypotheses should reflect, the impact of race/ethnicity, socioeconomic status, health care access, and/or other direct factors that underlie diabetes health disparities, and applications should describe how results of the proposed research will transform assessment and treatment of underserved groups and their potential to significantly improve outcomes in diabetes or its complications. The ADA encourages formative research, intervention development, and pilot-testing of interventions. For the purposes of this funding initiative, interventions may include behavioral, social, or structural approaches, as well as combination biomedical and behavioral approaches that prevent and/or improve clinical outcomes for people living with diabetes.

Awards: Various

Letter of Intent: Please see below

Proposal Deadline: Postdoctoral Fellowship: May 3, 2021

Innovative Clinical or Translational Science: LOI Due: June 7, 2021; Full Submission: August 30, 2021

Junior Faculty: LOI Due: June 7, 2021; Full Submission: August 30, 2021

All applications must be submitted through our online grant portal. Please visit the ADA Research Programs website at <https://professional.diabetes.org/content/targeted-rfas> for full program details and application instructions for each grant type.

Contact: Questions about this request for applications should be addressed to: grantquestions@diabetes.org.

[Back to Contents](#)

[Streamlyne Question of the Week](#)

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

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

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

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

[Back to Contents](#)

[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>.

[Back to Contents](#)
