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 4
Webinars and Events: Page 5
Grant Opportunities: Page 6
  National Science Foundation
  National Institutes of Health
  Department of Defense
  Department of Transportation
  Department of Agriculture
  Department of Labor
  Environmental Protection Agency
  Department of Energy
  NASA
  National Endowment of Humanities
  Private Foundations
Streamlyne Question of the Week: Page 27
Proposal Submission and Streamlyne Information: Page 28

Special Announcements

NJIT Multi-Phase Ramp Up Research Continuity and Recovery Plan
https://research.njit.edu/njit-pandemic-recovery-plan

For ramping up the phased research continuity and recovery operations, the NJIT guidelines and protocols for Phase-1, Phase-2 and Phase-3 are posted on the research website https://research.njit.edu/njit-pandemic-recovery-plan. These protocols are subject to change based on the guidance and regulations from the federal, state, and local government agencies.

The Office of the Secretary of Higher Education (OSHE) has issued standards for institutions of higher education as they begin restarting campus operations impacted by the COVID-19 pandemic. The standards align with the stages of New Jersey’s phased “The Road Back: Restoring Economic Health Through Public Health” plan and provide a framework of critical standards, additional steps institutions should consider when formulating plans, and examples of safeguarding practices in 10 key on-campus...

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


Grant Opportunity Alerts

Keywords and Areas Included in the Grant Opportunity Alert Section Below

**NSF:** Graduate Research Fellowship Program (GRFP); Re-entry to Active Research Program (RARE); Ecology and Evolution of Infectious Diseases (EEID); Research Experiences for Teachers (RET) in Engineering and Computer Science; Disaster Resilience Research Grants (DRRG); Division of Physics: Investigator-Initiated Research Projects (PHY)

**NIH:** BRAIN Initiative: Tools for Germline Gene Editing in Marmosets (U01); Integrative Research to Understand the Impact of Sex Differences on the Molecular Determinants of AD Risk and Responsiveness to Treatment (R01); PHS 2020-2 Omnibus Solicitation of the NIH, CDC, and FDA for Small Business Innovation Research Grant Applications (Parent SBIR [R43/R44]); BRAIN Initiative: Proof of Concept Development of Early Stage Next Generation Human Brain Imaging (R01); BRAIN Initiative: Theories, Models and Methods for Analysis of Complex Data from the Brain (R01); NIH Neuroscience Development for Advancing the Careers of a Diverse Research Workforce (R25)

**Department of Defense/US Army/DARPA/ONR:** Verified Security and Performance Enhancement of Large Legacy Software (V-SPELLS); DoD Combat Readiness, Rapid Development and Translational Research Award; Award for Fundamental Research in Socio-Mathematics of Information and Influence; DoD Pancreatic Cancer, Idea Development Award; Defense Sciences Office Office-wide; COVID-19 Seedling Research Topics; C4ISR, Information Operations, Cyberspace Operations and Information Technology System Research

**Department of Transportation:** Advanced Transportation and Congestion Management Technologies Deployment Initiative

**Department of Agriculture:** Agriculture and Food Research Initiative - Foundational and Applied Science; Biotechnology Risk Assessment Grants Program; REAP-Renewable Energy Systems and Energy Efficiency Improvements

**Department of Labor:** Supply Chains Tracing Project; Women in Apprenticeship and Nontraditional Occupations (“WANTO”) Technical Assistance Grant Program

**EPA:** Great Lakes Restoration Initiative Request for Applications

**Department of Energy:** Research and Development for Advanced Water Resource Recovery Systems; Advanced Manufacturing Office Multi-Topic FOA
Recent Research Grant and Contract Awards

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

PI: Casey Diekman (PI)
Department: Mathematical Sciences
Grant/Contract Project Title: CAREER: Neuronal Data Assimilation Tools and Models for Understanding Circadian Rhythms
Funding Agency: NSF
Duration: 07/01/16-09/30/21

PI: Simon Garnier (PI)
Department: Biological Sciences
Grant/Contract Project Title: Collaborative Research: RI: Medium: Living Architectures: From Army Ants to Self-Assembling Robots
Funding Agency: NSF
Duration: 08/01/20-07/31/24

PI: Matthew Bandelt (PI) and Matthew Adams (Co-PI)
Department: Civil and Environmental Engineering
Grant/Contract Project Title: Advanced Reinforced Concrete Materials for Transportation Infrastructure
Funding Agency: NJDOT
Duration: 05/15/19-05/14/21

PI: Catalin Turc (PI)
Department: Mathematical Sciences
Grant/Contract Project Title: Optimized Domain Decomposition Methods for Wave Propagation in Complex Media
Funding Agency: NSF
Duration: 09/01/19-08/31/22

PI: Andrew Gerrard (PI)
Department: Center for Solar Terrestrial Research
Grant/Contract Project Title: At the Cusp of the 21st Century: The Next Generation of Geospace Research Facilities at South Pole and McMurdo Stations  
Funding Agency: NSF  
Duration: 09/01/17-08/31/22

PI: Dong Ko (PI)  
Department: Electrical and Computer Engineering

Grant/Contract Project Title: STTR: Vertical Structure Thin Film Transistors for High Performance Displays and IoT Devices  
Funding Agency: NSF  
Duration: 07/20/20-07/14/21

PI: Ali Abdi (PI)  
Department: Electrical and Computer Engineering

Grant/Contract Project Title: PFI: AIR - TT: A Novel Vector Acoustic Communication Technology for High Speed Underwater Modems  
Funding Agency: NSF  
Duration: 08/15/15-04/30/21

In the News…

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

Research Security Bill: A U.S. Senate panel unanimously endorsed legislation to tighten oversight of federally funded researchers with ties to foreign governments. The move came despite objections from universities whose faculty would come under increased scrutiny if the bill becomes law. The bipartisan support from the Committee on Homeland Security and Government Affairs for the Safeguarding American Innovation Act (S. 3997) reflects an apparent growing consensus that Congress should respond to Chinese-backed research collaborations seen as threatening national security. The bill includes expanded authority for the State Department to limit immigration, stiffer penalties for scientists who fail to disclose their foreign ties on grant applications, a lower threshold for individuals and institutions to report foreign gifts, and a new research oversight body led by the White House Office of Management and Budget. However, a bevy of higher education organizations are worried that taking such actions would actually undermine innovation by making U.S. institutions less attractive to foreign scholars and increase paperwork requirements without making the country safer. More information is on the website https://www.sciencemag.org/news/2020/07/research-security-bill-advances-us-senate-despite-opposition-research-groups?utm_campaign=news_daily_2020-07-23&et_rid=285476668&et_cid=3418693

DOE Issues RFI on Energy Storage Needs: The Department of Energy (DOE) has released a request for information (RFI) to address grand challenges in energy storage. The solicitation seeks input on the agency’s road map for investments in future energy storage research and development, manufacturing and supply chain innovation, technology transfer, data tools for policy and evaluation, and workforce development. Responses to the RFI will be used to develop strategies to expand public access to DOE
resources and to provide input on national initiatives for clean energy, reducing pollution and creating jobs in the United States. Responses are due by August 21.

**NSF Releases INCLUDES Special Report:** The National Science Foundation (NSF) has issued a “special report to the nation” to provide updates on its Inclusion Across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science, or INCLUDES, program. As one of the NSF’s 10 Big Ideas, INCLUDES seeks to develop new strategies to broaden the participation of underrepresented groups in science, technology, engineering and mathematics. The report provides highlights on developing alliance networks and includes lessons learned about increasing broadening participation efforts.

**PCAST Proposes New R&D Institutes, Spending Surge for AI:** The President’s Council of Advisors on Science and Technology accepted recommendations last week from three subcommittees focused on spurring R&D related to “Industries of the Future” (IotF), meeting national STEM workforce needs, and better leveraging national labs within the U.S. research enterprise. A number of the recommendations entail establishing collaborative R&D centers, including a set of “IotF Institutes,” which would aim to strengthen the feedback between basic and applied research and accelerate technology commercialization. The council suggests two “flagship” institutes could focus on the application of AI to advanced manufacturing and biotechnology, respectively. PCAST also calls for the federal government to increase total nondefense investments in artificial intelligence R&D from a current level of about $1 billion per year to $10 billion by 2030. It envisions that some of this funding would go to the National Science Foundation in order to establish a National AI Research Institute in every state. The council further recommends investing $100 million annually over five years to create federally funded National Quantum Computing User Facilities, analogous to the high performance computing user facilities currently supported by NSF and the Department of Energy.

[Back to Contents]

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**Webinar and Events**

**Event:** Webinar: NSF ADVANCE Program - Adaptation and Partnership Proposal Development  
**Sponsor:** NSF  
**When:** July 29, 2020 1.30 PM – 3.00 PM  
**Website:** [https://www.nsf.gov/events/event_summ.jsp?cntn_id=297681&org=NSF](https://www.nsf.gov/events/event_summ.jsp?cntn_id=297681&org=NSF)  
**Brief Description:** The NSF ADVANCE program office will provide an overview of the Adaptation and Partnership funding opportunities in the NSF ADVANCE solicitation (NSF 20-554). Q and A will follow the presentation. We strongly suggest reviewing the ADVANCE solicitation and FAQs before the webinar.  
Note the deadlines for the Adaptation and Partnership letters of intent and full proposals have been extended for this year:

<table>
<thead>
<tr>
<th></th>
<th>Letter of Intent</th>
<th>Full proposal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Adaptation</strong></td>
<td>November 3, 2020 and first Monday in August annually thereafter</td>
<td>February 4, 2021 and first Wednesday in November annually thereafter</td>
</tr>
</tbody>
</table>

[Back to Contents]
<table>
<thead>
<tr>
<th>Partnership</th>
<th>Letter of Intent</th>
<th>November 3, 2020 and first Monday in August annually thereafter</th>
</tr>
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<tr>
<td></td>
<td>Full proposal</td>
<td>February 4, 2021 and first Wednesday in November annually thereafter</td>
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To Join the Webinar: Click here to register for this Webinar

Event: Webinar: EHR Core Research Program
Sponsor: NSF
When: July 30, 2020 3.00 PM – 4.00 PM

Brief Description: HR Core Research (ECR) Overview of Solicitation and Proposal Submission: Solicitation NSF 19-508 Program Outreach Webinar
Registration is required so we can communicate with you before and after the webinar - there is no need to contact the program directly. After registering, you will automatically receive instructions by email from Zoom for joining the webinar. If you don’t receive the email, please check your junk or clutter folders.

To Join the Webinar: REGISTER FOR THE REGULAR SESSION ECR WEBINARS

Back to Contents

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**Grant Opportunities**

**National Science Foundation**

Grant Program: Graduate Research Fellowship Program (GRFP)
Agency: National Science Foundation NSF 20-587

Brief Description: The purpose of the NSF Graduate Research Fellowship Program (GRFP) is to help ensure the quality, vitality, and diversity of the scientific and engineering workforce of the United States. The program recognizes and supports outstanding graduate students who are pursuing full-time research-based master's and doctoral degrees in science, technology, engineering, and mathematics (STEM) or in STEM education. The GRFP provides three years of support for the graduate education of individuals who have demonstrated their potential for significant research achievements in STEM or STEM education. NSF actively encourages women, members of underrepresented minority groups, persons with disabilities, veterans, and undergraduate seniors to apply.

Applicants must self-certify that they are eligible to receive the Fellowship. To be eligible, an applicant must meet all of the following eligibility criteria by the application deadline:

- Be a U.S. citizen, national, or permanent resident
- Intend to enroll or be enrolled full-time in a research-based master's or doctoral degree program in an eligible Field of Study in STEM or STEM education (See Appendix and Section IV.3 for eligible Fields of Study)
- Have never previously accepted a Graduate Research Fellowship
- If previously offered a Graduate Research Fellowship, have declined by the acceptance deadline
- Have never previously applied to GRFP while enrolled in a graduate degree program
- Have never earned a doctoral or terminal degree in any field
• Have never earned a master's or professional degree (see joint bachelor's-master's degree information below) in any field, or completed more than one academic year in a graduate degree-granting program, **unless (i) returning to graduate study after an interruption of two (2) or more consecutive years immediately preceding the application deadline, and; (ii) are not enrolled in a graduate degree program at the application deadline**

• Not be a current NSF employee

• Undergraduate seniors and bachelor's degree holders who have never enrolled in a graduate degree program have no restrictions on the number of times they can apply before enrolling in a degree-granting graduate program.

• Graduate students enrolled in a degree-granting graduate program are limited to only one application to the GRFP, submitted in the first year or beginning of the second year of their degree program.

**Awards:** Fellowship; The NSF expects to award 1,600 Graduate Research Fellowships per fiscal year under this program solicitation pending availability of funds. Each Fellowship provides three years of support during a five-year fellowship period. For each of the three years of support, NSF provides a $34,000 stipend and $12,000 cost of education allowance to the graduate degree-granting institution of higher education for each Fellow who uses the support in a fellowship year.

**Letters of Intent:** Not required

**Proposal Submission Deadline:**
- October 19, 2020
  - Life Sciences
- October 20, 2020
  - Computer and Information Science and Engineering, Materials Research, Psychology, Social Sciences, STEM Education and Learning
- October 21, 2020
  - Engineering
- October 22, 2020
  - Chemistry, Geosciences, Mathematical Sciences, Physics and Astronomy

**Contacts:** Applications contact: GRF Operations Center, telephone: (866) 673-4737, email: info@nsfgrfp.org

• Jong-on Hahm, Ph.D., Program Director, telephone: (866) 673-4737, email: info@nsfgrfp.org

• Christopher Hill, Ph.D., Program Director, telephone: (866) 673-4737, email: info@nsfgrfp.org

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**Grant Program: Re-entry to Active Research Program (RARE)**

**Agency:** National Science Foundation NSF 20-586


**Brief Description:** The Division of Chemical, Bioengineering, Environmental, and Transport Systems (CBET) and the Division of Chemistry (CHE) are conducting a Re-entry to Active Research (RARE) program to reengage, retrain, and broaden participation within the academic workforce. The primary objective of the RARE program is to catalyze the advancement along the academic tenure-track of highly meritorious individuals who are returning from a hiatus from active research. By providing re-entry points to active academic research, the RARE program will reinvest in the nation’s most highly trained scientists and engineers, while broadening participation and increasing diversity of experience. A RARE research proposal must describe potentially transformative research that falls within the scope of participating CBET or CHE programs.

The RARE program includes two Tracks to catalyze the advancement of investigators along the academic tenure system after a research hiatus, either to a tenure-track position or to a higher-tenured academic
rank. Track 1 of the RARE program reengages investigators in a competitive funding opportunity with accommodations for gap in record that are a result of the research hiatus. A Track 1 proposal will follow the budgetary guidelines of the relevant CBET program for an unsolicited research proposal or the relevant CHE Disciplinary Research program. Track 2 retrains investigators for whom the research hiatus has led to the need for new or updated techniques, such that retraining is required to return the investigator to competitive research activity. A description of how these new techniques will lead to competitive research in CBET or CHE programs is required. A Track 2 proposal budget will include only funds necessary for specific retraining activities, such as travel to a workshop or conference, workshop registration fees, a retraining sabbatical, or seed funding to support collection of preliminary data (including salary support, equipment usage fees, materials, and/or supplies).

**Awards:** Standard or continuing grants; **Anticipated Funding Amount:** $2,400,000

**Letters of Intent:** Not required

**Proposal Submission Deadline:** Proposals Accepted Anytime

**Contacts:** General inquiries regarding this program should be made to: RAREquestions@NSF.GOV or a RARE Program Officer listed below.

- Carole Read, CBET, telephone: (703) 292-2418, email: cread@nsf.gov
- Steven W. Peretti, CBET, telephone: (703) 292-7029, email: speretti@nsf.gov
- Nora F. Savage, CBET, telephone: (703) 292-7949, email: nosavage@nsf.gov

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**Grant Program:** Ecology and Evolution of Infectious Diseases (EEID)

**Agency:** National Science Foundation NSF 20-585


**Brief Description:** The multi-agency Ecology and Evolution of Infectious Diseases program supports research on the ecological, evolutionary, and social drivers that influence the transmission dynamics of infectious diseases. The central theme of submitted projects must be the quantitative or computational understanding of pathogen transmission dynamics. The intent is discovery of principles of infectious disease transmission and testing mathematical or computational models that elucidate infectious disease systems. Projects should be broad, interdisciplinary efforts that go beyond the scope of typical studies. They should focus on the determinants and interactions of transmission among any host species, including but not limited to humans, non-human animals, and/or plants. This includes, for example, the spread of pathogens; the influence of environmental factors such as climate; the population dynamics and genetics of reservoir species or hosts; the feedback between ecological transmission and evolutionary dynamics; and the cultural, social, behavioral, and economic dimensions of pathogen transmission. Research may be on zoonotic, environmentally-borne, vector-borne, or enteric pathogens of either terrestrial or aquatic systems and organisms, including diseases of animals and plants, at any scale from specific pathogens to inclusive environmental systems. Proposals for research on disease systems of public health concern to developing countries are strongly encouraged, as are disease systems of concern in agricultural systems. Investigators are encouraged to develop the appropriate multidisciplinary team, including for example, anthropologists, modelers, ecologists, bioinformaticians, genomics researchers, social scientists, economists, oceanographers, mathematical scientists, epidemiologists, evolutionary biologists, entomologists, parasitologists, microbiologists, bacteriologists, virologists, pathologists or veterinarians, with the goal of integrating knowledge across disciplines to enhance our ability to predict and control infectious diseases.

**Awards:** Standard or continuing grants; **Anticipated Funding Amount:** $24,000,000

**Letters of Intent:** Not required

**Proposal Submission Deadline:** November 18, 2020
Contacts: Katharina Dittmar, Program Director, NSF/BIO, telephone: (703) 292-7799, email: kdittmar@nsf.gov
- Christine Jessup, Program Director, NIH/FIC, telephone: (301) 496-1653, fax: (301) 402-0779, email: christine.jessup@nih.gov
- Mark Mirando, National Program Leader, USDA/NIFA, telephone: (202) 445-5575, email: mark.mirando@usda.gov

Grant Program: Research Experiences for Teachers (RET) in Engineering and Computer Science
Agency: National Science Foundation NSF 20-584
RFP Website: https://www.nsf.gov/pubs/2020/nsf20584/nsf20584.htm
Brief Description: NSF's Directorate for Engineering (ENG) and the Directorate for Computer and Information Science and Engineering (CISE) have joined to support the Research Experiences for Teachers (RET) in Engineering and Computer Science program. This program supports active long-term collaborative partnerships between K-12 Science, Technology, Engineering, Computer and Information Science, and Mathematics (STEM) in-service and pre-service teachers, full-time community college faculty, university faculty and students, and industry partners to enhance the scientific disciplinary knowledge and capacity of the STEM teachers and/or community college faculty through participation in authentic summer research experiences with engineering and computer science faculty researchers. The research projects and experiences all revolve around a focused research area related to engineering and/or computer science that will provide a common cohort experience to the participating educators. The K-12 STEM teachers and/or full-time community college faculty also translate their research experiences and new scientific knowledge into their classroom activities and curricula. The university team will include faculty, graduate and undergraduate students as well as industrial advisors. As part of the long-term partnership arrangements, involvement of undergraduate/graduate students with the integration of the RET curricular materials into classroom activities is particularly encouraged.
Awards: Standard or continuing grants; Anticipated Funding Amount: $5,800,000
Letters of Intent: Not required
Proposal Submission Deadline: September 30, 2020
Contacts: Amelia S. Greer, ENG/EEC, telephone: (703) 292-2552, email: agreer@nsf.gov
- Allyson Kennedy, CISE/CNS, telephone: (703) 292-8950, email: aykenned@nsf.gov

Grant Program: Disaster Resilience Research Grants (DRRG)
Agency: National Science Foundation NSF 20-581
RFP Website: https://www.nsf.gov/pubs/2020/nsf20581/nsf20581.htm
Brief Description: With this joint solicitation, the NSF and the U.S Department of Commerce (DOC) National Institute for Standards and Technology (NIST) call for proposals for research to advance fundamental understanding of disaster resilience in support of improved, science-based planning, policy, decisions, design, codes, and standards.
Awards: Standard or continuing grants; Anticipated Funding Amount: $3,100,000
Letters of Intent: August 14, 2020
Proposal Submission Deadline: September 15, 2020
Contacts: Jacqueline R. Meszaros, ENG/CMMI, telephone: (703) 292-7261, email: jmeszaro@nsf.gov
- Jason Averill, Chief, MSS Div, ENG Lab, NIST, telephone: (301)975-2585, email: jason.averill@nist.gov
Grant Program: Division of Physics: Investigator-Initiated Research Projects (PHY)  
Agency: National Science Foundation NSF 20-580  
RFP Website: https://www.nsf.gov/pubs/2020/nsf20580/nsf20580.htm  

Brief Description: The Division of Physics (PHY) supports physics research and the preparation of future scientists in the nation’s colleges and universities across a broad range of physics disciplines that span scales of space and time from the largest to the smallest and the oldest to the youngest. The Division is comprised of disciplinary programs covering experimental and theoretical research in the following major subfields of physics: Atomic, Molecular and Optical Physics; Elementary Particle Physics; Gravitational Physics; Integrative Activities in Physics; Nuclear Physics; Particle Astrophysics; Physics at the Information Frontier; Physics of Living Systems; Plasma Physics; and Quantum Information Science. The Division of Physics strongly encourages single proposal submission for possible co-review rather than submission of multiple related proposals to several programs.

PIs considering submitting more than one proposal to this solicitation, or who already have an active PHY award, are encouraged to first consult with the relevant program officer(s) before preparing a new proposal. This does not apply to awards from or submissions to the MRI, REU, and/or center programs, or in cases of renewal proposals.

Awards: Standard or continuing grants; Anticipated Funding Amount: $90,000,000
Letters of Intent: Not required
Proposal Submission Deadline:
October 19, 2020  
Third Monday in October, Annually Thereafter Physics of Living Systems  
November 16, 2020  
Third Monday in November, Annually Thereafter Plasma Physics  
November 25, 2020  
Fourth Wednesday in November, Annually Thereafter AMO - Theory and Experiment; Gravitational Physics - Theory and Experiment; LIGO Research Support; Integrative Activities in Physics  
December 01, 2020  
First Tuesday in December, Annually Thereafter Nuclear Physics - Theory and Experiment; Elementary Particle Physics - Experiment; Particle Astrophysics - Experiment  
December 08, 2020  
Second Tuesday in December, Annually Thereafter Elementary Particle Physics - Theory; Particle Astrophysics and Cosmology – Theory; Quantum Information Science

Contacts: Krastan B. Blagoev, Physics of Living Systems, telephone: (703) 292-4666, email: kblagoev@nsf.gov  
• Mark Coles, Projects and Facilities, telephone: (703) 292-4432, email: mcoles@nsf.gov

Back to Contents

National Institutes of Health

Grant Program: BRAIN Initiative: Tools for Germline Gene Editing in Marmosets (U01 - Clinical Trial Not Allowed)  
Agency: National Institutes of Health RFA-DA-21-006  
RFP Website: https://grants.nih.gov/grants/guide/rfa-files/RFA-DA-21-006.html  

Brief Description: This Funding Opportunity Announcement (FOA) solicits applications to develop tools and technologies to routinely conduct germline and somatic transgenic studies and gene editing in the common marmoset with the aim of supporting the BRAIN goals of understanding the brain in health and
disease. This includes optimization of strategies, tools, and methods to build a scientifically rigorous, ethical, efficient, and cost-effective brain-specific research infrastructure that can support all aspects of gene editing in marmosets, including optimizing assisted reproductive technologies, embryonic stem cell culture, ovarian stimulation protocols, development of pre-implantation protocols, standardization of semen collection and freezing, developing molecular genetic tools for gene editing and inducible/tissue-specific studies, creation of CRE driver lines, etc. Awardees are expected to participate in and provide information to an NIH-Funded Marmoset Coordination Center to disseminate the tools to the broader marmoset community. Studies proposing to conduct gene editing must contain at least one germline gene editing component.

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

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

**Proposal Submission Deadline:** October 15, 2020 and October 14, 2021

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

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

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**Grant Program:** Integrative Research to Understand the Impact of Sex Differences on the Molecular Determinants of AD Risk and Responsiveness to Treatment (R01 Clinical Trial Optional)

**Agency:** National Institutes of Health PAR-20-269


**Brief Description:** This FOA invites applications that employ integrative experimental and analytical approaches engaging basic and translational/clinical research aimed at developing a comprehensive understanding of the impact of sex differences on the trajectories of brain aging and disease, phenotypes of AD and AD-related dementias (ADRD) risk, individualized prevention, and responsiveness to pharmacologic and non-pharmacologic interventions. To this end, this funding opportunity encourages research focused on, but not limited to, the following:

- Molecular mechanisms underlying sex differences in brain bioenergetics, blood-brain barrier (BBB) and neurovascular unit function, myelin integrity, synaptic plasticity, and neural circuits integrity as they relate to the transition from healthy to pathologic brain aging/neurodegeneration.
- Molecular mechanisms by which sex differences influence differential vulnerability to metabolic, vascular, and inflammatory risk factors.
- The impact of sex differences on the trajectories of brain aging and on the molecular determinants of AD risk and progression across diverse ethnic groups.
- Molecular mechanisms by which hormonal transition states, i.e., perimenopause, menopause, and andropause, influence the heterogeneity of AD risk and AD progression.
- Understanding how sex interacts with different ApoE genotypes to influence the molecular mechanisms of brain aging, AD risk phenotypes, and responsiveness to treatment.
- Molecular determinants of sex differences in responsiveness to pharmacologic and non-pharmacologic treatment of AD/ADRD.

The central goal of this initiative is to develop robust research programs that will explore how genes, environment, and hormonal status (gonadal and brain-derived) interact at various levels of biologic complexity (cell, tissue, organs/organ systems, and populations) to produce heterogeneous phenotypes of disease risk and responsiveness to therapy in AD/ADRD.

A cross-disciplinary team-science approach that brings together experts in neuroscience, physiology, computational biology and data science, and translational and clinical research is strongly encouraged, as...
is the integrative use of human data and biosamples with cell-based and animal models. This FOA will **not** support research that relies solely on the use of cell-based and animal models.

**Awards:** Annual direct costs are capped at $750,000.

**Letter of Intent:** October 10, 2020

**Proposal Submission Deadline:** November 10, 2020

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

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

**Contact:** Jean Yuan, Ph.D., National Institute on Aging (NIA), Telephone: 301-496-9350
Email: yuanx4@mail.nih.gov

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**Grant Program:** PHS 2020-2 Omnibus Solicitation of the NIH, CDC, and FDA for Small Business Innovation Research Grant Applications (Parent SBIR [R43/R44] Clinical Trial Required)

**Agency:** National Institutes of Health PA-20-262

**PHS 2020-2 Omnibus Solicitation of the NIH for Small Business Technology Transfer Grant Applications (Parent STTR [R41/R42] Clinical Trial Required) PA-20-261 STTR R41/R42- Phase I, Phase II, and Fast Track**

**PHS 2020-2 Omnibus Solicitation of the NIH for Small Business Technology Transfer Grant Applications (Parent STTR [R41/R42] Clinical Trial Not Allowed) PA-20-265 STTR R41/R42- Phase I, Phase II, and Fast Track**


**Brief Description:** The PHS 2020-2 SBIR/STTR Program Descriptions and Research Topics for NIH, CDC, and FDA represent scientific program areas that may be of interest to applicant small businesses in the development of projects that have potential for commercialization. Small business concerns that have the research capabilities and technological expertise to contribute to the R&D mission(s) of the NIH, CDC, or FDA awarding components identified in this FOA are encouraged to submit SBIR grant applications in these areas. SBIR grant applications will also be accepted and considered in any area within the mission of the [Components of Participating Organizations](https://sbir.nih.gov/funding#omni-sbir) listed for this FOA. In addition to the general SBIR solicitations, some awarding components have additional, specific [NIH Targeted Funding Opportunities](https://sbir.nih.gov/funding#omni-sbir) of potential interest to small businesses.

**Awards:** Total funding support (direct costs, indirect costs, fee) normally may not exceed $256,580 for Phase I awards and $1,710,531 for Phase II awards. For specific topics, NIH may exceed these total award amounts. The current list of approved topics can be found at [https://sbir.nih.gov/funding#omni-sbir](https://sbir.nih.gov/funding#omni-sbir) or in Appendix A of PHS 2020-2 SBIR/STTR Program Descriptions and Research Topics for NIH, CDC, and FDA.

**Letter of Intent:** Not required

**Proposal Submission Deadline:** [Standard dates](https://sbir.nih.gov/funding#omni-sbir) apply

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

Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.
Grant Program: BRAIN Initiative: Proof of Concept Development of Early Stage Next Generation Human Brain Imaging (R01 Clinical Trial Not Allowed)
Agency: National Institutes of Health RFA-EB-20-001
RFP Website: https://grants.nih.gov/grants/guide/rfa-files/RFA-EB-20-001.html
Brief Description: The long-term objective of the overall BRAIN initiative is to accelerate technology development and the use of tools for acquiring fundamental insight about how the nervous system functions in health and disease. This FOA aims to support entirely new noninvasive imaging methods or unusually bold approaches for existing noninvasive imaging methods that will lead to transformative advances in our understanding of the function and connectivity of the human brain.

The FOA solicits small-scale projects to prove exceptionally innovative, original and/or unconventional concepts. The goal is to accelerate early stage development of promising and entirely new concepts that require some initial stage of development and testing before launching into full-scale tool development. Applications submitted in response to this FOA should focus on innovative approaches and proof-of-principle initial stage development for breakthrough, noninvasive imaging technology to measure brain function and connectivity in ways that are currently unachievable. The proposed concepts and approaches are expected to be high-risk, high-impact, and disruptive.

This FOA will support early stage development of novel interdisciplinary research and technology for noninvasive next generation human brain imaging, with the intention that the technologies be capable of being used in healthy humans. To this end, this FOA will support interdisciplinary teams from diverse research domains to conduct research and development activities such as data exchange, prototype development projects, and small-scale studies in mammals or humans to generate preliminary results. The teams should be prepared, by the completion of the award period, to commence fully developing the next-generation brain imaging technology (“BRAIN 2025: A Scientific Vision,” http://braininitiative.nih.gov/).

Awards: Application budgets are limited to $300,000 in direct costs in any project year.
Letter of Intent: 30 days prior to application due date.
Proposal Submission Deadline: September 3, 2020 and September 3, 2021
No late applications will be accepted for this Funding Opportunity Announcement.
All applications are due by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on the listed date(s).
Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

Contact: Shumin Wang, Ph.D., National Institute of Biomedical Imaging and Bioengineering (NIBIB)
Telephone: 301-594-9001, Email: shumin.wang@nih.gov

Grant Program: BRAIN Initiative: Theories, Models and Methods for Analysis of Complex Data from the Brain (R01 Clinical Trial Not Allowed)
Agency: National Institutes of Health RFA-EB-20-002
RFP Website: https://grants.nih.gov/grants/guide/rfa-files/RFA-EB-20-002.html
**Brief Description:** The broad goal of The BRAIN Initiative℠ is to understand the circuits and patterns of neural activity that give rise to mental experience and behavior. As stated in the BRAIN 2025 Report (II.5), "Theory, Modeling, and Statistics Will Be Essential to Understanding the Brain." As advances in neurotechnologies are producing large, complex datasets at an unprecedented rate, novel theoretical and analytical approaches are needed to realize the potential of these rich datasets. Understanding neural circuitry requires an understanding of the algorithms and mechanisms that govern information processing within and between interacting circuits in the brain as a whole. Informed by rich observations, formalized theoretical frameworks allow researchers to infer general principles of brain function and the algorithms underlying functioning neural circuitry. Theory coupled with mathematical modeling and simulations are needed to identify gaps in knowledge, to drive the systematic collection of the future data (e.g., collected data should address model parameters that are currently unknown), and to formulate testable hypotheses on neural circuit mechanisms and how they affect behavioral and cognitive processes. Statistical approaches are needed to conduct formal inference to support or refute a stated theory or hypothesis. Finally, new data analysis methods are needed to detect dynamical features and patterns in complex data, often spanning multiple modalities and scales, are needed to reveal underlying mechanisms of brain function.

**Awards:** Application budgets not limited, but are expected to range between $150,000 to $250,000 direct costs per year.

**Letter of Intent:** August 14, 2020

**Proposal Submission Deadline:** September 14, 2020

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

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

**Contact:** Grace C.Y. Peng, PhD, National Institute of Biomedical Imaging and Bioengineering (NIBIB)
Telephone: 301-451-4778, Email: BRAINTheoriesFOA@mail.nih.gov

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**Grant Program:** NIH Neuroscience Development for Advancing the Careers of a Diverse Research Workforce (R25 Clinical Trial Not Allowed)

**Agency:** National Institutes of Health PAR-20-240


**Brief Description:** This NIH Neuroscience Development for Advancing the Careers of a Diverse Research Workforce (R25) is a flexible and specialized program designed to foster the development of neuroscience researchers from diverse backgrounds, including from underrepresented groups across career stages. Thus, it encourages applications from applicant organizations that propose innovative mentoring and professional development activities in the mission area(s) of the NINDS and/or NIMH. This Neuroscience Diversity R25 initiative will focus on factors that have been shown to affect retention of underrepresented graduate students, postdoctoral trainees, and junior faculty in neuroscience research such as mentoring, scientific networks, professional development, and attention to the structural and institutional environment regarding inclusion (http://acd.od.nih.gov/dbr.htm; Structure and Belonging: Pathways to Success for Underrepresented Minority and Women Ph.D. Students in STEM Fields; The Science of Effective Mentorship in STEMM).

The NIH expects applicant institutions to propose programs that will lead to an improvement in the professional development, mentoring and technical expertise of individuals who are individuals from diverse backgrounds, including those from groups that are nationally underrepresented in neuroscience research. The NIH Research Education Program (R25) supports research education activities in the mission areas of the NIH. The overarching goal of this R25 program is to support educational activities...
that encourage individuals from diverse backgrounds, including those from groups underrepresented in
the biomedical and behavioral sciences, to pursue further studies or careers in research.  
**Awards:** Application budgets are limited to a maximum of $250,000 direct cost per year.  
**Letter of Intent:** 30 days prior to application due date.  
**Proposal Submission Deadline:** January 25, 2021, September 27, 2021, and September 26, 2022,
by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this
funding opportunity announcement are due on these dates. 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:** Michelle Jones-London, Ph.D., National Institute of Neurological Disorders and Stroke
(NINDS), Telephone: 301-451-7966 Email: jonesmiche@ninds.nih.gov

**Back to Contents**

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

**Grant Program:** Verified Security and Performance Enhancement of Large Legacy Software (V-SPELLS)

**Agency:** Department of Defense DARPA - Information Innovation Office HR001120S0058

**Website:** [https://beta.sam.gov/opp/7dc5798bf5e74d8aa3df767edd3e0815/view](https://beta.sam.gov/opp/7dc5798bf5e74d8aa3df767edd3e0815/view)

**Brief Description:** The goal of the V-SPELLS program is to create a developer-accessible capability for
designed and compatible-by-construction, i.e., safely composable with the rest of the system. V-
SPELLS will create practical tools for developers to gain benefits of formal software verification in
incremental software (re)engineering rather than only in clean-slate introduction. V-SPELLS tools will
enable developers to deliver assured incremental modernization of legacy systems in a manner that
leverages verification technologies and reduces rather than raises risk. V-SPELLS aims to radically
broaden adoption of software verification by enabling incremental introduction of superior technologies
into systems that cannot be re-designed from scratch and replaced as a whole.  
**Awards:** There are multiple technical areas for this solicitation. Currently, DARPA anticipates multiple
awards in Technical Area 1, Technical Area 2 and Technical Area 3; and a single award for Technical
Area 4. DARPA anticipates making multiple awards under this BAA, which has a total anticipated
funding amount of approximately $40 million.  
**Letter of Intent:** Not Required  
**Proposal Deadline:** September 9, 2020, 12:00 noon (ET)  
Proposers Day: July 29, 2020  
**Contact Information:** Dr. Sergey Bratus, Program Manager, DARPA/I2O

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**Grant Program:** DoD Combat Readiness, Rapid Development and Translational Research Award

**Agency:** Department of Defense Dept. of the Army – USAMRAA W81XWH-20-S-CRRP

**Website:** [https://www.grants.gov/web/grants/view-opportunity.html?oppId=328340](https://www.grants.gov/web/grants/view-opportunity.html?oppId=328340)

**Brief Description:** The CRRP vision is to deliver high-impact medical solutions throughout the
continuum of care to increase survivability and readiness of the Warfighter in diverse operational settings.
The program seeks to develop innovative solutions to increase medical readiness, mitigate fatalities,
optimally treat life-threatening injuries, and promote positive long-term outcomes. While the CRRP focuses on capability gaps in frontline care, the program also considers how chronic disorders typically associated with pre-deployment readiness (e.g., sleep, gastrointestinal conditions) may influence the delivery of care in deployed environments and contribute to injury susceptibility and recovery. Innovations developed by CRRP-supported research may be applied proactively as a way to establish medical readiness ahead of deployment, in-theater at the point of injury or during periods of prolonged care, or during transport/en route care within and from theater to hospital settings. These solutions will not only help to minimize the morbidity and mortality of combat-related injuries sustained by the Warfighter, they will also often translate to civilian care.

**Awards:** The anticipated total costs budgeted for the entire period of performance for an FY20 CRRP RDTRA will not exceed $2M.

**Letter of Intent:** Pre-Proposal Required

**Proposal Deadline:** Pre-Proposal/Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), September 10, 2020 • Invitation to Submit an Application: October 16, 2020 • Proposal/Application Submission Deadline: 11:59 p.m. ET, December 3, 2020

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

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**Grant Program:** Award for Fundamental Research in Socio-Mathematics of Information and Influence  
**Agency:** Department of Defense BRO-20-SOMAII  
**Website:** [https://www.grants.gov/web/grants/view-opportunity.html?oppId=328111](https://www.grants.gov/web/grants/view-opportunity.html?oppId=328111)  
**Brief Description:** The overarching goal of this research program is to enhance and extend the understanding of the theoretical underpinnings of future information warfare, towards rapid detection, tracking and prediction of attempts at social manipulation. The problem requires the deep integration of two, currently distinct scientific fields, mathematics and social sciences. While modern mathematical methods are often and well-used in social science studies, this research program is going well beyond the state of the art and is calling for the development of a new mathematical foundation for describing, analyzing and predicting human social behavior at multiple scales and in complex and dynamic environments, thus laying the groundwork for a new field.

**Research Areas:**
The fundamental science behind the objective of this topic covers multiple, coupled areas, thus requiring a combination of expertise, for example: computer science and machine learning, mathematics, cognitive psychology and sociology, network theory and/or game theory. Some specific research topics to be addressed in this undertaking may include, but are not limited to, the following:

1) Carefully designed mathematical abstractions based on behavioral science for modeling the agent’s psychological and social variables, e.g.: emotional and cognitive states, human intent and belief, and group dynamics. These models should include approaches to multi-scale clustering for accurate comprehension and modeling of aggregate behavior, e.g. individual – group – nation.

2) Game-theoretical and Machine Learning concepts, e.g. multi-agent reinforcement learning (RL) or distributional RL, as well as other innovative ideas that can consider a hybrid distribution of irrational and rational agents, including artificial ones (e.g. bots).

3) Efficient mathematical methods and algorithms to detect malicious intent and learn agent behavior and objectives from limited and noisy observations.

4) Concepts and methods for strategy optimization (inverse design), which may include counter-messaging, network-based intervention, or other means.

Proposals should aim to produce novel conceptual frameworks that present disruptive ways of thinking about the fundamental scientific problems described above. The research is exploratory and can be
conducted on publically available data-sets, synthetic data, or real data that can be readily obtained by the
performer. Proposals should not rely on the need for data to be supplied by the Government, which does
not already exist and is publicly available.

Awards: Proposals may be written in two options, of a maximum budget of $1.5M each. The options
may be consecutive or executed in parallel, and the statement of work and research directions in each
option are entirely at the discretion of the proposer. A proposer may choose to submit a proposal that
contains only one option. Single option proposals are subject to the budget limitation of $1.5M.

Letter of Intent: Not Required
Proposal Deadline: August 28, 2020, 4.00 PM
Contact Information: Sharon A Hilton, Grantor sharon.a.hilton.civ@mail.mil

Grant Program: DoD Pancreatic Cancer, Idea Development Award
Agency: Department of Defense Dept. of the Army – USAMRAA W81XWH-20-PCARP-IDA
Website: https://cdmrp.army.mil/funding/pa/FY20-PCARP-IDA.pdf

Brief Description: Applications to the Fiscal Year 2020 (FY20) Pancreatic Cancer Research Program
(PCARP) are being solicited for the Defense Health Agency (DHA) J9, Research and Development
Directorate. To be considered for funding, applications for the FY20 PCARP Idea Development Award
must address at least one of the FY20 PCARP Focus Areas. • Understanding precursors, origins, and
early progression of pancreatic cancer • Understanding the events that promote pancreatic cancer
metastasis • Understanding the relationship between oncogenic signaling and the tumor
microenvironment that drives drug resistance and therapeutic response • Integration of biologic and
imaging biomarkers to drive more precise and earlier detection and prognosis • Defining viable tumor
burden • Supportive care and patient-reported outcomes, quality of life, and perspectives during treatment
and survivorship • New drug development targeted toward cancer sensitivity and resistance mechanisms
including immune mechanisms of resistance • Development of pharmacological, immunological, or
genetic interception approaches

Awards: The FY20 appropriation is $6 million (M).
Letter of Intent: Not Required
Proposal Deadline: Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), August 25, 2020
   • Invitation to Submit an Application: September 30, 2020 • Application Submission Deadline: 11:59
   p.m. ET, November 20, 2020
Contact Information: CDMRP Help Desk Phone: 301-682-5507 Email: help@eBRAP.org

Grant Program: Defense Sciences Office Office-wide
Agency: Department of Defense DARPA - Defense Sciences Office HR001120S0048
Website: https://beta.sam.gov/opp/36d6bc789b364142a0f7a267017b06d9/view

Brief Description: The mission of the Defense Advanced Research Projects Agency (DARPA) Defense
Sciences Office (DSO) is to identify and create the next generation of scientific discovery by pursuing
high-risk, high-payoff research initiatives across a broad spectrum of science and engineering disciplines
and transforming these initiatives into disruptive technologies for U.S. national security. In support of this
mission, the DSO Office-wide BAA invites proposers to submit innovative basic or applied research
concepts or studies and analysis proposals that address one or more of the following technical thrust areas:
(1) Frontiers in Math, Computation and Design, (2) Limits of Sensing and Sensors, (3) Complex Social
Systems, and (4) Anticipating Surprise. Each of these thrust areas is described below and includes a list
of example research topics that highlight several (but not all) potential areas of interest. Proposals must
investigate innovative approaches that enable revolutionary advances. DSO is explicitly not interested in approaches or technologies that primarily result in evolutionary improvements to the existing state of practice. **Awards:** Multiple awards are anticipated; however, the level of funding for individual awards made under this solicitation has not been predetermined and will depend on the scope and quality of the proposals received, as well as the availability of funds. **Proposal Deadline:** Executive Summary Due Date and Time: Executive Summaries may be submitted on a rolling basis until Executive Summary Due Date: June 11, 2021, 4:00 p.m. **Proposal Abstract Due Date and Time:** Abstracts may be submitted on a rolling basis until June 11, 2021, 4:00 p.m. **FAQ Submission Deadline:** June 2, 2021, 4:00 p.m. See Section VIII.A. **Full Proposal Due Date and Time:** Proposals may be submitted on a rolling basis until June 11, 2021, 4:00 p.m. **Contact Information:** Phil Root, Deputy Director, DARPA/DSO o BAA Email: HR001120S0048@darpa.mil

**Grant Program:** COVID-19 Seedling Research Topics **Agency:** Department of Defense IARPA IARPA-BAA-20-01 **Website:** [https://beta.sam.gov/opp/173394225301447791745b4ffe707a52/view#general](https://beta.sam.gov/opp/173394225301447791745b4ffe707a52/view#general) **Brief Description:** The Intelligence Advanced Research Projects Activity (IARPA) invests in high-risk/high-payoff research programs that have the potential to provide our nation with an overwhelming intelligence advantage. The current COVID-19 pandemic focuses attention on the need for technologies to assist with:

- detection and sensing;
- supply chain management and integrity;
- geo-spatio-temporal monitoring and mapping, with privacy protection;
- information reliability and collaboration tools; and
- modeling, simulation, and predictive analytics.

These technologies align well with needs of the intelligence and national security communities and are, therefore, under the purview of IARPA’s research mission. Successful technology solutions will require creative, multidisciplinary methods, paradigm changing thinking, and transformative approaches. Preference will be given to research with the ability to not only provide rapid capability against the current COVID-19 pandemic, but also enhanced warning and response capacity for future similar events. **Awards:** Multiple awards anticipated **Proposal Deadline:** Proposal Due Date for Initial Round of Selections: July 7, 2020 (Offerors may submit proposals any time after June 5, 2020 until the proposal due date for initial round of selections, July 7, 2020.) **BAA Closing Date:** May 20, 2021 (A BAA amendment will be issued to announce subsequent rounds of selections, if any) **Contact Information:** ATTN: IARPA-BAA-20-01 Office of the Director of National Intelligence Advanced Research Projects Activity Washington, DC 20511 Electronic mail: dni-IARPA-BAA-20-01@iarpa.gov Phone: Contracting Officer, 301-243-1886 (email is preferred)

**Grant Program:** C4ISR, Information Operations, Cyberspace Operations and Information Technology System Research **Agency:** Department of Defense Naval Information Warfare Center Pacific N66001-20-S-4702 **Website:** [https://www.grants.gov/web/grants/search-grants.html](https://www.grants.gov/web/grants/search-grants.html) **Brief Description:** Naval Information Warfare Center, Pacific (NIWC Pacific), is soliciting proposals in accordance with FAR 35.016, DoDGARS 22.315(a), and DoD Other Transactions (OT) Guide for
Prototype Projects for research in areas relating to the advancement of C4ISR capabilities, enabling technologies for Information Operations and Cyberspace Operations, and Information Technology systems. Submissions in response to this announcement shall be for areas relating to the advancement of Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) capabilities, enabling technologies for Information Operations and Cyberspace Operations, and Information Technology systems.

Proposed research should investigate unique and innovative approaches for defining and developing next generation integratable C4ISR capabilities and command suites. The area topics reflect the interest of the NIWC Pacific, but interest from other Team NAVWAR components could be generated and selections could be made for funding by other than NIWC Pacific. Only offers that are in the areas of basic research, applied research, advanced technology development, and advanced component development and prototypes will be considered (see Appendix A). Testing and optimizing of concepts or prototypes may be necessary. This may involve virtual simulation and/or laboratory as well as at sea measurements.

**Awards:** Multiple awards are anticipated

**Proposal Deadline:** This announcement is open for 365 days from the original posting date. Any white papers received during that time shall only be considered for award of a contract, other transaction, grant, or cooperative agreement. Closing date; June 03, 2021

**Contact Information:** David Roden (Primary) Contract Specialist Telephone: (619) 553-2087 Email: David.Roden@navy.mil NIWC Pacific Code 22710 53560 Hull Street San Diego, CA 92152-5001

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**Department of Transportation**

**Grant Program: Advanced Transportation and Congestion Management Technologies Deployment Initiative**

**Agency:** Department of Transportation 693JJ320NF00010

**Website:** [https://www.fhwa.dot.gov/fastact/factsheets/advtranscongmgmtfs.cfm](https://www.fhwa.dot.gov/fastact/factsheets/advtranscongmgmtfs.cfm)

**Brief Description:** The DOT hereby requests applications to result in awards to eligible entities to develop model deployment sites for large scale installation and operation of advanced transportation technologies to improve safety, efficiency, system performance, and infrastructure return on investment. These model deployments are expected to provide benefits in the form of: • reduced traffic-related fatalities and injuries; • reduced traffic congestion and improved travel time reliability; • reduced transportation-related emissions; • optimized multimodal system performance; • improved access to transportation alternatives, including for underserved populations; • public access to real time integrated traffic, transit, and multimodal transportation information to make informed travel decisions; • cost savings to transportation agencies, businesses, and the traveling public; or • other benefits to transportation users and the general public. This competitive ATCMTD Grant Program will promote the use of innovative transportation solutions. The deployment of these technologies will provide Congress and DOT with valuable real-life data and feedback to inform future decision-making.

**Letter of Intent:** Not Required

**Proposal Deadline:** August 31, 2020

**Contact Information:** Submit Questions to: ATCMTD@dot.gov

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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

Grant Program: Biotechnology Risk Assessment Grants Program
Agency: Department of Agriculture  USDA-NIFA-BRAP-007072
Website: https://nifa.usda.gov/funding-opportunity/biotechnology-risk-assessment-research-grants-program-brag

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

Awards: Up to $500,000; Anticipated available funding: $4,500,000
Contact Information: Dr. Lakshmi Matukumalli lakshmi.matukumalli@usda.gov  (816)-926-1189

Grant Program: REAP-Renewable Energy Systems and Energy Efficiency Improvements
Agency: Department of Agriculture  RDBCP-11-REAP-RES-EEI-2020

Brief Description: Eligible applicants are agricultural producers and rural small businesses. All agricultural producers, including farmers and ranchers, who gain 50% or more of their gross income from the agricultural operations are eligible. Small businesses that are located in a rural area can also apply. Rural electric cooperatives may also be eligible to apply. Additional Information on Eligibility:Citizenship - To be eligible, applicants must be individuals or entities at least 51 percent owned by persons who are either: 1) citizens of the United States (U.S.),the Republic of Palau, the Federated States of Micronesia, the Republic of the Marshall Islands, or American Samoa; or 2) legally admitted
permanent residents residing in the U.S. Project - The project must be to conduct a feasibility study for a renewable energy system. Eligible technologies include: projects that produce energy from wind, solar, biomass, geothermal, hydro power and hydrogen-based sources.
**Awards:** Up to $500,000; Anticipated Funding: $70 million
**Submission Deadline:** September 30, 2020
**Contact:** Technical Contact: Maureen Hessel, Energy Specialist, Phone 202-401-0142

**Department of Labor**

**Grant Program:** Supply Chains Tracing Project  
**Agency:** Department of Labor FOA-ILAB-20-04  
**Website:** [https://www.grants.gov/web/grants/view-opportunity.html?oppId=328321](https://www.grants.gov/web/grants/view-opportunity.html?oppId=328321)  
**Brief Description:** The Bureau of International Labor Affairs (ILAB), U.S. Department of Labor (USDOL, or the Department), announces the availability of approximately $8,000,000 total costs (subject to the availability of federal funds) for up to two cooperative agreements of up to $4,000,000 total costs each to fund technical assistance projects to increase the downstream tracing of goods made by child labor or forced labor. Project outputs include (1) increasing the number of tested supply chain tracing methodologies; (2) increasing the number of piloted tools for supply chain tracing; and (3) increasing the dissemination of supply chain tracing tools and methodologies to a broad range of stakeholders.

**Awards:** The duration of the project will be a maximum of 4.5 years (54 months) from the effective date of the award. If applying for both cooperative agreements, applicants may not combine applications into one—they must submit separate applications. Each application should request no more than $4,000,000 total costs in funding and each application must separately meet all the requirements of this announcement. In the event that the same applicant is selected for award for both cooperative agreements, USDOL reserves the right to issue one cooperative agreement covering both proposals, and to adjust the budget accordingly for administrative costs.

**Proposal Deadline:** The closing date for receipt of applications under this announcement is September 8, 2020. Applications must be received no later than 4:00:00 p.m. Eastern Time.
**Contact Information:** Sue Levenstein, Grants Management Specialist. levenstein.susan.l@dol.gov

**Grant Program:** Women in Apprenticeship and Nontraditional Occupations (“WANTO”) Technical Assistance Grant Program  
**Agency:** Department of Labor FOA-WB-20-01  
**Website:** [https://www.grants.gov/web/grants/search-grants.html](https://www.grants.gov/web/grants/search-grants.html)  
**Brief Description:** This program aims to provide technical assistance (TA) to employers and labor unions to encourage employment of women in both apprenticeable occupations and nontraditional occupations (A/NTO), specifically in the following ways: • Developing (establishing, expanding, and/or enhancing) pre-apprenticeship, apprenticeship (includes Registered Apprenticeship Programs, Industry-Recognized Apprenticeship Programs, and other apprenticeship programs), or other nontraditional skills training programs designed to prepare women for careers in A/NTO; • Providing ongoing orientations or other resources for employers, unions, and workers on creating a successful environment for women in A/NTO; and/or • Setting up support groups, facilitating networks, and/or providing supportive services (as defined in section IV.E.3) for women in A/NTO to improve their retention.

**Awards:** Up to $750,000; Estimated Total Program Funding: $4,100,000
EPA

Grant Program: Great Lakes Restoration Initiative Request for Applications
Agency: Environmental Protection Agency EPA-R5-GL2020-FMSP
Website: https://www.epa.gov/great-lakes-funding/great-lakes-fish-monitoring-and-surveillance-program-2020-rfa

Brief Description: This Request for Applications (RFA) solicits applications from eligible entities for a cooperative agreement to be awarded pursuant to the Great Lakes Restoration Initiative Action Plan III. EPA is seeking applications for a project to monitor the temporal trends of persistent, bioaccumulative, and toxic chemicals in fish in the Great Lakes.

Award: Various; Estimated Available Funding: $6,000,000
Submission Deadline: Applications must be submitted via www.grants.gov by 10:59 pm Central Time / 11:59 pm Eastern Time. See Section IV of the RFA for further submission information.
Contact: Brian Lenell (lenell.brian@epa.gov) 312-353-4891

Department of Energy

Grant Program: Research and Development for Advanced Water Resource Recovery Systems
Agency: Department of Energy DE-FOA-0002336
Website: https://eere-exchange.energy.gov/#FoaIdfa6e43fc-9abe-4c4f-867b-224e5fb1d6bb

Brief Description: Energy is often the second-highest operating cost (behind labor costs) for water and wastewater treatment systems. Black & Veatch’s client surveys indicate that energy costs at water and wastewater utilities account for well over 10% of total operating costs for a large majority of utilities, with a significant number of utilities having energy costs that exceed 30 percent. Increasingly stringent regulations for contaminants are pushing water and wastewater treatment systems to use even more advanced – and energy intensive – treatment technologies. The energy use of these systems is expected to increase by up to 20 percent in the coming decades due to more stringent water quality standards and growing water demand based on population growth. Additionally, water and wastewater treatment facilities, pipes, and related infrastructure in cities around the country are approaching their end of expected service life. Therefore, a unique window of opportunity exists to replace the aging infrastructure with new, innovative approaches to water and wastewater treatment, resource recovery, and water reuse by looking more broadly at interconnected, cross-sector opportunities (i.e. municipal, industrial, agriculture, oil and gas, etc.) across the energy-water nexus to develop water and wastewater treatment systems of the future – advanced water resource recovery systems.

The goal of this Funding Opportunity Announcement (FOA) is to conduct research, development, and deployment on technology innovations that enable advanced water resource recovery systems. Topic Area 1 of this FOA seeks to advance the development of transformative technologies beyond early stage research and development (R&D) to become pilot ready (TRL 4-6). Whereas, Topic Area 2 of this FOA
seeks to test currently developed, pilot ready technologies (TRL 6-7) though design, build, and operations in industrially relevant conditions to enable commercialization.

**Awards:** Estimated Total Program Funding: $20,000,000
**Letter of Intent:** Concept Paper Submission Deadline: 8/4/2020 5:00 PM ET
**Submission Deadline:** Full Application Submission Deadline: 10/6/2020 5:00 PM ET
**Contact:** Questions regarding the FOA must be submitted to AMOWaterFOA@ee.doe.gov

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**Grant Program:** FY20 Advanced Manufacturing Office Multi-Topic FOA  
**Agency:** Department of Energy Office of Science DE-FOA-0002252  
**Website:** [https://eere-exchange.energy.gov/#FoaId96fd81da-41e6-4d21-b5b9-06252b707825](https://eere-exchange.energy.gov/#FoaId96fd81da-41e6-4d21-b5b9-06252b707825)  
**Brief Description:** AMO supports innovative, advanced-manufacturing applied research and development (R&D) projects that focus on specific, high-impact manufacturing technology and process challenges. AMO invests in foundational, energy-related, advanced-manufacturing processes (where energy costs are a determinant of competitive manufacturing) and broadly applicable platform technologies (the enabling base upon which other systems and applications can be developed). The competitively selected projects from this FOA will focus on developing next-generation manufacturing material, information, and process technologies that improve energy efficiency in energy-intensive and energy-dependent processes, and facilitate the transition of emerging, cost-competitive energy technologies to domestic production.  
**Awards:** Estimated Total Program Funding: $67,000,000  
**Letter of Intent:** Concept Paper Submission Deadline: 6/25/2020 5:00 PM ET  
**Submission Deadline:** Full Application Submission Deadline: 8/26/2020 5:00 PM ET  
**Contact:** [https://eere-exchange.energy.gov](https://eere-exchange.energy.gov)  

Back to Contents

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**NASA**

**Grant Program:** ROSES 2020: Science Team for the OCO Missions  
**Agency:** NASA NNH20ZDA001N-OCOST  
**Website:** [https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B7B7B9745C4-04AD-74F8-59B7-3CF0C8EF15E3%7D&path=&method=init](https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B7B7B9745C4-04AD-74F8-59B7-3CF0C8EF15E3%7D&path=&method=init)  
**Brief Description:** Proposals are solicited for participation in the Science Team for the Orbiting Carbon Observatory-2 (OCO-2) and Orbiting Carbon Observatory-3 (OCO-3) missions. NASA launched the OCO-2 mission in July 2014. OCO-2 has been operating on orbit, producing precise column average CO2 concentration data globally with validated precision and accuracy of better than 0.25%, since September 2014. The OCO-3 mission, with a near-replica instrument to OCO-2, has been operating on the International Space Station (ISS) since June of 2019 and is now returning data with similar precisions as OCO-2. The primary differences in the data sets are the spatial and temporal sampling as a result of the different orbits of the observations (especially inclination) and the available observational modes of the instruments.  
**Awards:** Funding anticipated: $3,500,000  
**Notice of Intent:** November 13, 2020  
**Proposal Deadline:** January 13, 2021  
**Contact:** Kenneth W. Jucks, Earth Science Division, Science Mission Directorate, NASA Headquarters Washington, DC 20546-0001 Telephone: 202-358-0476 Email: kenneth.w.jucks@nasa.gov
Grant Program: ROSES 2020: SAGE III/ ISS Science Team
Agency: NASA NNH20ZDA001N-SAGEIII
Website: https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BABC8F050-A310-7184-B919-6220765BAF10%7D&path=&method=init

Brief Description: NASA's research for furthering our understanding of atmospheric composition is geared toward providing an improved prognostic capability for key processes and issues, including the recovery of stratospheric ozone and its impacts on surface ultraviolet radiation, evolution of greenhouse gases and their impacts on climate, and evolution of tropospheric ozone and aerosols and their impacts on climate and air quality. Research within the Atmospheric Composition Focus Area addresses the following science questions: • How is atmospheric composition changing? • What trends in atmospheric composition and solar radiation are driving global climate? • How does atmospheric composition respond to and affect global environmental change? • What are the effects of global atmospheric composition and climate changes on regional air quality? • How will future changes in atmospheric composition affect ozone, climate, and global air quality?

Awards: Funding anticipated: $1,500,000
Notice of Intent: September 18, 2020
Proposal Deadline: November 6, 2020
Contact: Richard S. Eckman, Earth Science Division, Science Mission Directorate, NASA Headquarters Washington, DC 20546-0001, Telephone: 202-358-2567 Email: Richard.S.Eckman@nasa.gov

Grant Program: ROSES 2020: Solar Irradiance Science Team
Agency: NASA NNH20ZDA001N-SIST
Website: https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BEA2EEB7D-1C46-7EA9-747F-B833E9BDA8E5%7D&path=&method=init

Brief Description: Solar irradiance represents the primary external forcing operating on the Earth and contributes to variability and change in the Earth’s climate and atmospheric composition. Solar irradiance can only be measured above the atmosphere given the significant absorption that takes place within the atmosphere. The Earth system is sensitive to variations in the Total Solar Irradiance (TSI) and to the spectral dependence of any variation, given that different wavelengths experience the most absorption at different altitudes in the atmosphere. Variations in TSI are quite small—the typical variation over the 11-year solar cycle is on the order of 0.1%. Variations in the solar irradiance as a function of wavelength— or Spectral Solar Irradiance (SSI)—increase with decreasing wavelength, by a few percent at the short-wavelength ultraviolet radiation responsible for photodissociation of oxygen and a factor of order unity at wavelengths near Lyman Alpha (121.6 nm).

Awards: Funding anticipated: $1,000,000
Notice of Intent: August 7, 2020
Proposal Deadline: September 11, 2020
Contact: David B. Considine Earth Science Division Science Mission Directorate NASA Headquarters Washington, DC 20546-0001 Telephone: 202-358-2277 Email: david.b.considine@nasa.gov

Grant Program: NASA Innovative Advanced Concepts (NIAC) Phase I
Agency: NASA 80HQTR20NOA01-21NIAC-A1
Website: https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B9BC1CCC6-3CB9-30BA-8C21-0B88402F4A2A%7D&path=&method=init
**Brief Description:** The NIAC Program focuses on early stage feasibility studies of visionary concepts that address national government and commercial aerospace goals. Concepts are solicited from any field of study that offers a radically different approach or disruptive innovation that may significantly enhance or enable new human or robotic science and exploration missions. Proposed concepts must be framed in terms of a mission context that clearly identifies scientific or technical advancements and associated benefits compared to current approaches. Comparatively high risk and far term, NIAC concepts are transformational investments in future NASA and commercial space capabilities. The entry Technology Readiness Level (TRL) for Phase I concepts should be TRL 2 or lower. Proposed concepts must identify credible approaches toward new scientific or technical innovations that advance NASA’s strategic themes to Discover, Explore, Develop, and Enable, as outlined in the 2018 NASA Strategic Plan. Advancements are sought across the broad spectrum of disciplines that support the goals and objectives encompassed by these themes, including nontraditional areas such as biophysics, life sciences, human factors engineering, artificial intelligence, resource sustainability, and other topics that may inspire innovative approaches to meet future exploration needs.

**Awards:** Expected Award Amount: Not to exceed $125K Expected Number of Awards: 12-16
**Proposal Deadline:** Step-A Proposals Due: July 22, 2020 (5:00 pm Eastern) Step B Invitations Issued: August 25, 2020 (Target) Step B Proposal Due: September 29, 2020 (Target), 5:00pm ET
**Contact:** Jason Derleth, NIAC Program Executive, Space Technology Mission Directorate, NASA Headquarters hq-niac@mail.nasa.gov

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**Grant Program:** ROSES 2020: The New (Early Career) Investigator Program in Earth Science
**Agency:** NASA NNH20ZDA001N-NIP

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

**Awards:** Various; Available funding: $3.000.000
**Proposal Deadline:** September 20, 2021
**Contact:** Allison Leidner Earth Science Division Science Mission Directorate NASA Headquarters Washington, DC 20546-0001 Telephone: 202.358.0855 Email: Allison.K.Leidner@nasa.gov

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**Grant Program:** ROSES 2020: Space Weather Science Application Operations-to-Research
**Agency:** NASA NNH20ZDA001N-SWO2R
**Website:** [https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BB2FF5915D-4700-7B3B-43F1-0094ED1BE130%7D&path=&method=init](https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BB2FF5915D-4700-7B3B-43F1-0094ED1BE130%7D&path=&method=init)

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

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

Awards: Various; Available funding: $2,000,000

Step 1 Proposal: December 16, 2020
Step 2 Proposal Deadline: February 17, 2021
Contact: James Spann Heliophysics Division Science mission Directorate NASA Headquarters Washington, DC 20546-0001 Telephone: 202-358-0574 Email: jim.spann@nasa.gov

National Endowment of Humanities

Grant Program: Media Projects
Agency: National Endowment for the Humanities  20200812-TD-TR
Website: https://www.neh.gov/program/media-projects
Brief Description: The Media Projects program supports the development, production, and distribution of radio, podcast, television, and long-form documentary film projects that engage general audiences with humanities ideas in creative and appealing ways. All projects must be grounded in humanities scholarship and demonstrate an approach that is thoughtful, balanced, and analytical. The approach to the subject matter must go beyond the mere presentation of factual information to explore its larger significance and stimulate reflection. Media Projects offers two levels of funding: Development and Production.
Awards: Maximum award amount: $75,000 for Development, $700,000 for Production, $1,000,000 for Chairman’s Special Awards
Proposal Deadline: August 12, 2020
Contact: Contact the Division of Public Programs Team 202-606-8269 publicpgms@neh.gov

Private Foundations

Activate.ORG
Grant Program: Activate Fellowships
Agency: Activate.org
**Website:** [https://www.activate.org/](https://www.activate.org/)

**Brief Description:** We exist to discover, fund, champion, and propel individuals who have a technology vision that could benefit society and who are committed to bringing it to the world as a new product or business. Every year, we work with our partners to select a cohort of entrepreneurial scientists and engineers from around the world to be fellows. For two years these innovators embed in a world-class research institution, where they are supported with funding, mentorship, education, and connections with our network of industry leaders, investors, and philanthropists. Our goal is simple: empower fellows to mature their ideas from concept to first product, while positioning them to align with the most suitable commercial path to bring their technology to scale.

**Awards:** Fellows receive a yearly living stipend of $80,000 to $110,000 plus a health insurance stipend and travel allowance. This enables them to focus on their project full-time. Each project also receives $100,000 of research support at the host laboratory.

**Proposal Deadline:** Applications open early October

**Contact:** If interested, please contact Dr. Michael Ehrlich, Associate Professor, Martin Tuchman School of Management, and Co-Director of NJ Innovation Acceleration Center at michael.a.ehrlich@njit.edu

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**Research Corporation for Science Advancement**

**Grant Program:** Cottrell Scholar Award

**Agency:** Research Corporation for Science Advancement

**Website:** [https://rescorp.org/cottrell-scholars/guidelines](https://rescorp.org/cottrell-scholars/guidelines)

**Brief Description:** The Cottrell Scholar Award (CSA) is available to early career faculty at US and Canadian research universities and primarily undergraduate institutions. Eligible applicants are tenure-track faculty who hold primary or courtesy appointments in chemistry, physics, or astronomy departments that offer bachelor's and/or graduate degrees in the applicant's discipline. For the 2020 proposal cycle, eligibility is limited to faculty members who started their first tenure-track appointment anytime in calendar year 2017. Accommodations are made for faculty who have taken maternity or paternity leave, or who have experienced medical conditions that prompted a tenure clock extension. To request an eligibility extension, contact Senior Program Director Silvia Ronco (sronco@rescorp.org).

**Awards:** Cottrell Scholar Awards are for three-year projects in the amount of $100,000 for the entire project.

**Proposal Deadline:** In 2020, the CSA proposal target date is **July 1, 2020**. However, due to the COVID-19 emergency, the submission portal will remain open until **August 15, 2020** midnight PDT (hard deadline). The CSA online submission portal opened **March 1, 2020**. 2021 Cottrell Scholar Awards will be announced by **February 15, 2021**.

**Contact:** If interested, please send an email to Atam Dhawan (dhawan@njit.edu) or Richard Rosenberg at rmr@njit.edu

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**Streamlyne Question of the Week**

**Question:** Can I generate budgets for multiple years from the Year-1 budget in Streamlyne?
Answer: Yes! You only need to input the Year-1 budget and then click on the “generate all periods” button. Streamlyne will create budget sheets for the remaining periods. You can then go to “summary” under the budget tab to review budget sheets for all periods. You can also change specific budget items that you allocated in Year-1 but you do not want to continue them in the following periods.

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

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

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