

# NJIT Research Newsletter

Issue: ORN-2018-25

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

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## Grant Opportunity Alerts

Keywords and Areas Included in the Grant Opportunity Alert Section Below

**NSF:** Energy, Power, Control, and Networks (EPCN); Electronics, Photonics and Magnetic Devices (EPMD); Communications, Circuits, and Sensing-Systems (CCSS); Innovation Corps - National Innovation Network Teams Program (I-Corps<sup>TM</sup> Teams); Division of Physics: Investigator-Initiated Research Projects (PHY); Operation Engineering; Mind, Machine and Motor Nexus (M3X); Humans, Disasters, and the Built Environment (HDBE); Civil Infrastructure Systems (CIS); Engineering Design and System Engineering (EDSE); Dynamics, Control and Systems Diagnostics (DCSD; Biomechanics and Mechanobiology (BMMB)

**NIH:** Investigator Initiated Research in Computational Genomics and Data Science (R01 R21); High-Priority Behavioral and Social Research Networks (R24 Clinical Trial Not Allowed); Lab to Marketplace: Tools for Brain and Behavioral Research (R43/R44); BRAIN Initiative Advanced Postdoctoral Career Transition Award to Promote Diversity (K99/R00); NIH Director's New Innovator Award Program (DP2); NIH Director's Transformative Research Award (R01); Exploratory Team-Research BRAIN Circuit Programs - eTeamBCP (U01); BRAIN Initiative: Development and Validation of Novel Tools to Probe Cell-Specific and Circuit-Specific Processes in the Brain (R01)

**Department of Defense/US Army/DARPA/ONR:** Peer Reviewed Orthopaedic Research Program Applied Research Award; Research Interests of the Air Force Office of Scientific Research; DoD Orthotics and Prosthetics Outcomes, Clinical Research Award; Spinal Cord Injury Research Program Investigator-Initiated Research Award; DoD Hearing Restoration Focused Applied Research Award; Defense Science, Technology, Engineering, and Mathematics (STEM) Education Consortium (DSEC) Cooperative Agreement; DoD Autism Idea Development Award

**Department of Education:** Institute of Education Sciences (IES)

**Department of Energy:** Integrated University Program (IUP)

NASA: ROSES 2018: DSCOVER Science Team; Space Technology Research Institutes (STRI)Appendix;  
ROSES 2018: Heliophysics Space Weather Operations to Research; Early Stage Innovation (ESI)  
**National Endowment of Humanities:** Infrastructure and Capacity Building Challenge Grants  
**Simons Foundation:** Simons Investigator program in the Mathematical Modeling of Living Systems (MMLS)  
**Arnold and Mabel Beckman Foundation:** Beckman Young Investigator Award

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## **Special Announcement**

### **Call For Proposals**

#### **NJIT Faculty Seed Grant Awards – 2018-19**

**Proposal Submission Deadline to College/School Dean: September 5, 2018**

#### **Purpose:**

NJIT “2020 Vision” strategic plan targets on substantial increase in academic research and external funding with faculty and student professional development. The purpose of the NJIT Faculty Seed Grant (FSG) initiative is to promote academic research in the core and interdisciplinary areas by providing seed funding to obtain preliminary results or establish hypotheses for developing future grant proposals for submission to external funding agencies. The FSG initiative specifically seeks seed funding proposals from faculty to launch new initiatives in core and interdisciplinary emerging areas aligned with NJIT strategic tactics to develop critical research mass.

#### **Eligibility and Type of Awards:**

NJIT full-time faculty with specific research initiative to enhance the critical mass in key and emerging areas may apply to FSG program for internal funding with a budget of \$7500 per project over the FY18 ending June 30, 2018. Multidisciplinary projects with strong recommendation and justification from College/School Dean will be considered at the funding level of \$10,000 subject to availability of funds.

It is expected that about 20 FSG awards will be made this year. Funding is arranged through the Offices of Research and College/School Deans.

Recipients of FSG as lead faculty are not eligible to receive another FSG award as lead faculty within three years from the last FSG award. Projects funded by FSG are not eligible to receive another FSG as the intent of internal seed funding is to facilitate initial research towards obtaining external funds to pursue research.

Allowable Expenses include Project supplies and small equipment, travel to conferences and/or funding agencies, travel expenses for funding agency people to visit NJIT, student hourly wages. Faculty summer salary, AY release and any stipend are not permitted in the budget.

#### **Deadlines:**

CFP Announcement: June 1, 2018

FSG Proposal Due in the Office of College/School Dean: September 5, 2018

College/School Dean Recommendations to Office of Research: September 15, 2018

Institutional Review and Announcement of Awards: September 21, 2018

Period of Award: October 1, 2017– June 30, 2018 (no extension will be available)

**Review Process and Criterion:**

All Proposals will be reviewed within the College/School to which PI is affiliated. College/School Dean will make the recommendation of top ranked proposals based on the reviews from the College/School review committee, which will be forwarded to the Office of Research for further review and discussion with Deans leading to the announcement of awards.

Review criterion primarily includes the scientific merit of the proposal, and potential of external funding. Additional criterion includes significance of project goals, fit to the NJIT strategic research clusters and emerging trends towards developing critical mass in key areas, justification of internal funding, expected outcomes, and faculty expertise.

**Other Requirements:** Faculty receiving FSG awards will submit a full proposal to external funding agencies within six months from the end date of the award. They will also participate in the NJIT Faculty Research Showcase and Panel Discussion events in Spring semester.

**Required FSG Proposal Format:**

The main proposal (sections 2-7 in the required FSG proposal format below) is limited to 5 pages with single spaced 12 point font size. The page limit does not include the cover sheet, budget and budget justification (maximum one page) and list of references (maximum one page). In addition up to 2 pages of biographical sketch and 1 page of current and pending support are required for PI and each investigator. Please see the proposal format guidelines below.

The main proposal should have the following sections:

1. Cover Sheet:

Title of the Project

Principal and Co-Principal Investigators

Department

College

Date Submitted

PI and Co-PI (if multiple investigators) Signatures

2. Abstract (Maximum 250 words; Non-IP for public dissemination):

(Please summarize briefly on):

- a. Project Goal(s)
- b. Significance
- c. Expected Outcomes
- d. Justification of Internal Funding

3. Specific Objectives

4. Methods and Procedures

5. Evaluation and Deliverables

6. Future Plans

(Describe how the project funding with the deliverables will help in future proposal submissions, enhancing the research synergy, and obtaining external funds)

7. Justification of Internal Funding

(Describe what other funds are available and why additional internal funding is needed)

8. Budget and Budget Justification (maximum 1 page)

9. References (maximum 1 page)

10. Appendix (for PI and each Co-PI/Investigator):

- a. PI Biographical Sketch (NSF/NIH or Federal Agency Format; maximum 2 pages per investigator)
- b. Other Grant Support (maximum 1 page per investigator; summarize specific project goal(s) for each grant and any overlap with this proposal)

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

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

**PI:** Kamlesh Sirkar (PI) and Boris Khusid (Co-PI)

**Department:** MAST Center

**Grant/Contract Project Title:** Phase II IUCRC New Jersey Institute of Technology: Center for Membrane Science, Engineering and Technology (MAST)

**Funding Agency:** NSF

**Duration:** 07/01/18-06/20/23

**PI:** Moshe Kam (PI)

**Department:** Electrical and Computer Engineering

**Grant/Contract Project Title:** Aircrew Physiologic Status Monitoring FY15-DoN-RIF-NAVAIR-02  
"NAVAIR AIR-1.0: Aircrew Physiologic Status Monitoring

**Funding Agency:** Athena GTX, Inc

**Duration:** 01/01/18-12/31/18

**PI:** Trevor Tyson (PI)

**Department:** Physics

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

**Funding Agency:** NSF

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

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### In the News...

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

**Impact of Travel Ban on Graduate Students:** This week's 5-4 [Supreme Court validation](#) of President Trump's travel ban caps 17 months of restrictive steps by the administration, the [Chronicle of Higher Education recounts](#). These include "extreme vetting" of travelers; scrutiny of visitors' social-media accounts; a crackdown on students who overstay their visas; new restrictions on the ability of recent graduates to remain in the United States; increased oversight of the H1-B program; and "limits on visas for Chinese students and scientists in certain sensitive, high-tech fields."

**SENATE Panel OKs Hike in Defense R&D:** The Senate Appropriations Committee approved the \$675 billion measure 30-1 on Thursday. "It includes substantial increases for Navy and Air Force University Research Initiatives, the Army's University and Industry Research Centers program, and each service's Defense Research Sciences. The R&D total is more than \$6 billion higher than the current level. It now goes to the Senate floor.

**DRONE PROPULSION:** The panel calls on the Army "to invest in technologies that vastly improve the mechanical durability of unmanned aerial propulsion systems and utilize multi-fuel capable, hybrid electric propulsion." It urges the Army to consider accelerating expansion of its Open Campus approach to its Materials and Manufacturing Science laboratories in order to benefit strategic materials research. A "research priority" for the Navy should be the "development and qualification of materials technologies, including nonflammable electrolytes, to reduce the risk of thermal runaway and improve safety in lithium-ion batteries." The committee also notes that "all solid-state battery technology could dramatically increase the energy density of current batteries while providing a safer power system by eliminating the need for a flammable electrolyte and reducing the complexity of the battery management system.

**\$2 BILLION MORE FOR NIH:** In proposing a 5.4 percent increase for the National Institutes of Health, the Senate Appropriations majority crowed: "Since Republicans took back the Senate starting with the FY2016 appropriations cycle, the Committee has increased funding for NIH by \$9

billion or 30 percent." According to [the panel's report](#), the FY 2019 appropriation "is estimated to support over 11,400 new and competing grants." The panel's House counterpart proposed a \$1.25 billion raise.

**NSF HIGHLIGHTS MATERIALS FACILITIES:** Specifically, they are the National High Magnetic Field Laboratory (NHMFL); the Cornell High Energy Synchrotron Source (CHESS); the Center for High Energy Neutron Scattering (CHRNS); ChemMatCARS; National Nanotechnology Coordinated Infrastructure (NNCI); Materials Innovation Platforms (MIP); and the Materials Research Facilities Network (MRFN). Read [the Division of Materials Research newsletter](#). Research supported by the Division of Materials Research (DMR) focuses on advancing fundamental understanding of materials, materials discovery, design, synthesis, characterization, properties, and materials-related phenomena. DMR awards enable understanding of the electronic, atomic, and molecular structures, mechanisms, and processes that govern nanoscale to macroscale morphology and properties; manipulation and control of these properties; discovery of emerging phenomena of matter and materials; and creation of novel design, synthesis, and processing strategies that lead to new materials with unique characteristics. These discoveries and advancements transcend traditional scientific and engineering disciplines. The Division supports research and education activities in the United States through funding of individual investigators, teams, centers, facilities, and instrumentation. Projects supported by DMR are essential for the development of future technologies and industries that meet societal needs, as well preparation of the next generation of materials researchers.

### **America's Biggest Companies Launch Workforce Partnership Initiative (WPI) for STEM**

**Workforce:** Business Roundtable launched "a program called the Workforce Partnership Initiative (WPI) that aims to get America's biggest employers to collaborate, with high schools, colleges, and each other, on closing the workforce skills gap." The initiative will "involve about 35 companies and their CEOs, organized in seven different regional groups; they'll work with local governments and schools to develop and share best practices for building a better worker-training pipeline." It will "focus largely on STEM skills, and particularly on improving opportunities for women and underrepresented minorities within STEM fields." The WPI will involve about 35 companies and their CEOs, organized in seven different regional groups; they'll work with local governments and schools to develop and share best practices for building a better worker-training pipeline. The initiative will focus largely on STEM skills, and particularly on improving opportunities for women and underrepresented minorities within STEM fields; the BRT companies are pledging both to help shape the training curriculum and to create more internships and apprenticeships for students.

The WPI's launch is a culmination of a couple of years of behind-the-scenes work led by Wes Bush, the CEO of defense contractor [Northrop Grumman](#), who chairs the BRT's education and workforce committee. Other CEOs serving as regional group leaders include Greg Case of Aon and Julie Sweet of Accenture (Chicago); Blake D. Moret, of [Rockwell Automation](#) (Milwaukee); Mark Weinberger of Ernst & Young (North Carolina); Ginny Rometty of [IBM](#) (New York/New Jersey/Connecticut); Lisa Davis of Siemens Corp., the U.S. division of the German conglomerate (the Southeast); and Dennis Muilenburg of [Boeing](#) (Utah).

**EARLY CAREER AWARDS:** Department of Energy selected 54 researchers at universities, as well as 30 at national labs. [See the list](#). DOE also funded 31 university biotech projects totaling \$40 million. They're intended to "advance research in the development of microbes as practical platforms for the production of biofuels and other bioproducts from renewable resources". [See the announcement](#). [See the list here](#). Under the program, university-based researchers will receive



grants for at least \$150,000 per year and researchers based at DOE national laboratories will receive grants for at least \$500,000 per year. The research grants are planned for five years and will cover salary and research expenses.

To be eligible for the DOE award, a researcher must be an untenured, tenure-track assistant or associate professor at a U.S. academic institution or a full-time employee at a DOE national laboratory, who received a Ph.D. within the past 10 years. Research topics are required to fall within one of the Department's Office of Science's six major program offices:

- Advanced Scientific Computing Research
- Basic Energy Sciences
- Biological and Environmental Research
- Fusion Energy Sciences
- High Energy Physics
- Nuclear Physics

More information about DoE Early CAREER award is available on the website <https://science.energy.gov/early-career/>

**NSF Engineering Drops Deadlines:** This "important change," effective August 15, applies to "unsolicited proposals to all core programs in the Divisions of Chemical, Bioengineering, Environmental and Transport Systems (CBET), Civil, Mechanical and Manufacturing Innovation (CMMI), Electrical, Communications and Cyber Systems (ECCS), and Engineering Education and Centers (EEC)," says a [Dear Colleague letter](#) from Dawn Tilbury, assistant director for engineering at the National Science Foundation. "By accepting proposals at any time, ENG is affording the opportunity for PIs to think more creatively, build strong collaborations, converse with Program Directors and carefully prepare proposals with the potential to make significant research contributions to engineering. It is our hope that the elimination of deadlines will reduce the burden on institutions and the community." See responses to [Frequently Asked Questions](https://www.nsf.gov/pubs/2018/nsf18083/nsf18083.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click#q1) ([https://www.nsf.gov/pubs/2018/nsf18083/nsf18083.jsp?WT.mc\\_id=USNSF\\_25&WT.mc\\_ev=click#q1](https://www.nsf.gov/pubs/2018/nsf18083/nsf18083.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click#q1)). Please see more information in the Special Announcement section above in this Newsletter.

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### **Webinar and Events**

**Event: Battery Storage Technologies and Potential Applications in Power Systems**

**Sponsor: IEEE**

**When: July 12, 2018; 1.00 PM – 2.00 PM**

**Website:** <https://smartgrid.ieee.org/battery-storage-technologies-and-potential-applications-in-power-systems>

**Brief Description:** Electrical power infrastructures are changing dramatically around the globe due to Smart Grid initiatives, the establishment of renewables and the resulting distributed nature of creating electricity. As a result, the power network faces great challenges in generation, transmission and distribution to meet new and many times unpredictable demands of providing coherent electricity supply. Electrical Energy Storage (EES) has been considered a game-changer with a number of technologies that have great potential in meeting these challenges. However, the wide variety of options and complex performance matrices can make it difficult to appraise a specific EES technology for a particular application. This presentation intends to contribute information that will give a Smart Grid user a clearer picture of the state-of-the-art electrochemical technologies available, and where they would be suited for integration into a power generation and distribution system.

**Speaker:** Wei-Jen Lee, Professor and Director, University of Texas at Arlington

**To join the webinar:** Please register at <https://smartgrid.ieee.org/battery-storage-technologies-and-potential-applications-in-power-systems>

**Event:** Math Frontiers Monthly Webinar Series

**Sponsor:** National Academies

**When:** July 10, 2018 from 2.00 PM

**Website:** [http://sites.nationalacademies.org/deps/bmsa/deps\\_183972](http://sites.nationalacademies.org/deps/bmsa/deps_183972)

**Brief Description:** Join the National Academies of Sciences, Engineering, and Medicine for a webinar series on exciting and upcoming mathematics research across an array of topics. Webinars will take place on the **second Tuesday of each month from 2-3 p.m. ET**, with two speakers and live Q&A. See below for the list of dates and themes for each webinar. *When registering, please make sure you select all the webinars you would like to attend.* You will only receive reminder emails and login instructions for webinars you have registered for.

As each webinar approaches, we will post more information about the speakers on the webinar series page at [nas.edu/mathfrontiers](http://nas.edu/mathfrontiers).

**July 10, 2018: Topology**

Professors [Jeffrey F. Brock](#) and [John Morgan](#) will discuss applications of topology—the mathematical study of how object properties are impacted by deformations—to fields such as data analytics, tumor identification, and robotics.

**August 14, 2018: Algorithms for Threat Detection**

Professor [Andrea Bertozzi](#) and others will discuss applications of mathematics to spatiotemporal data analytics as a way to discover and mitigate national security threats.

**September 11, 2018: Mathematical Analysis**

Professor [Dimitri Shlyakhtenko](#) and others will discuss mathematical analysis—the study of functions and their limits. Application areas include computational fluid dynamics and astronomy.

**October 9, 2018: Combinatorics**

Invited speakers will discuss the mathematical study of discrete structures and their properties focusing on some of the modern techniques in the area including the probabilistic method. Application areas include information theory, statistical physics, molecular biology and computer science.

**November 13, 2018: Why Machine Learning Works**

Invited speakers will discuss the mathematics behind machine learning and how they enable predictive analyses.

**December 11, 2018: Mathematics of Epidemics**

Professors [Calistus Ngonghala](#) and [Folashade B. Augusto](#) will discuss mathematical approaches to studying biology, including ecology and infectious disease.

**To join the webinar:** Please register at [http://sites.nationalacademies.org/deps/bmsa/deps\\_183972](http://sites.nationalacademies.org/deps/bmsa/deps_183972)

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## Grant Opportunities

### National Science Foundation

**Grant Program:** Energy, Power, Control, and Networks (EPCN)

**Agency:** National Science Foundation NSF PD 18-7607

**RFP Website:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=505249&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505249&org=NSF&sel_org=NSF&from=fund)

**Brief Description:** The Energy, Power, Control, and Networks (EPCN) Program supports innovative research in modeling, optimization, learning, adaptation, and control of networked multi-agent systems,



higher-level decision making, and dynamic resource allocation, as well as risk management in the presence of uncertainty, sub-system failures, and stochastic disturbances. EPCN also invests in novel machine learning algorithms and analysis, adaptive dynamic programming, brain-like networked architectures performing real-time learning, and neuromorphic engineering. EPCN's goal is to encourage research on emerging technologies and applications including energy, transportation, robotics, and biomedical devices & systems. EPCN also emphasizes electric power systems, including generation, transmission, storage, and integration of renewable energy sources into the grid; power electronics and drives; battery management systems; hybrid and electric vehicles; and understanding of the interplay of power systems with associated regulatory & economic structures and with consumer behavior.

*Areas managed by Program Directors (please contact Program Directors listed in the [EPCN staff directory](#) for areas of interest):*

#### Control Systems

- Distributed Control and Optimization
- Networked Multi-Agent Systems
- Stochastic, Hybrid, Nonlinear Systems
- Dynamic Data-Enabled Learning, Decision and Control
- Cyber-Physical Control Systems
- Applications (Biomedical, Transportation, Robotics)

#### Energy and Power Systems

- Solar, Wind, and Storage Devices Integration with the Grid
- Monitoring, Protection and Resilient Operation of Grid
- Power Grid Cybersecurity
- Market design, Consumer Behavior, Regulatory Policy
- Microgrids
- Energy Efficient Buildings and Communities

#### Power Electronics Systems

- Advanced Power Electronics and Electric Machines
- Electric and Hybrid Electric Vehicles
- Energy Harvesting, Storage Devices and Systems
- Innovative Grid-tied Power Electronic Converters

#### Learning and Adaptive Systems

- Neural Networks
- Neuromorphic Engineering Systems
- Data analytics and Intelligent Systems
- Machine Learning Algorithms, Analysis and Applications

**Awards:** Proposals submitted to other program announcements and solicitations, including the Faculty Early Career Development Program (CAREER), must meet their respective deadlines; please refer to the deadline dates specified in the appropriate announcement or solicitation. Proposals for EARLY-concept Grants for Exploratory Research (EAGER) or Rapid Response Research (RAPID) can be submitted at any time but Principal Investigators must contact the cognizant program director prior to submission. Proposals for supplements or workshops can be submitted at any time, and PIs are encouraged to contact the cognizant PD prior to submission.

**Letter of Intent:** See the program information

**Full Proposal Submission Deadline:** Full Proposal Accepted Anytime

**Contacts:** Radhakishan Baheti [rbaheti@nsf.gov](mailto:rbaheti@nsf.gov) (703) 292-8339

Alireza Khaligh [akhaligh@nsf.gov](mailto:akhaligh@nsf.gov) (703) 292-8339

Anthony Kuh [akuh@nsf.gov](mailto:akuh@nsf.gov) (703) 292-8339

Anil Pahwa [apahwa@nsf.gov](mailto:apahwa@nsf.gov) (703) 292-2285

**Grant Program: Electronics, Photonics and Magnetic Devices (EPMD)****Agency: National Science Foundation NSF PD 18-1517****RFP Website:**[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=505250&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505250&org=NSF&sel_org=NSF&from=fund)

**Brief Description:** The Electronics, Photonics and Magnetic Devices (EPMD) Program supports innovative research on novel devices based on the principles of electronics, optics and photonics, optoelectronics, magnetics, opto- and electromechanics, electromagnetics, and related physical phenomena. EPMD's goal is to advance the frontiers of micro-, nano- and quantum-based devices operating within the electromagnetic spectrum and contributing to a broad range of application domains including information and communications, imaging and sensing, healthcare, Internet of Things, energy, infrastructure, and manufacturing. The program encourages research based on emerging technologies for miniaturization, integration, and energy efficiency as well as novel material-based devices with new functionalities, improved efficiency, flexibility, tunability, wearability, and enhanced reliability.

**Awards:** Proposals submitted to other program announcements and solicitations, including the Faculty Early Career Development Program (CAREER), must meet their respective deadlines; please refer to the deadline dates specified in the appropriate announcement or solicitation. Proposals for EARLY-concept Grants for Exploratory Research (EAGER) or Rapid Response Research (RAPID) can be submitted at any time but Principal Investigators must contact the cognizant program director prior to submission. Proposals for supplements or workshops can be submitted at any time, and PIs are encouraged to contact the cognizant PD prior to submission.

**Letter of Intent:** See the program information

**Full Proposal Submission Deadline:** Full Proposal Accepted Anytime

**Contacts:** Dominique Dagenais [ddagenai@nsf.gov](mailto:ddagenai@nsf.gov) (703) 292-8339

Eric G. Johnson [egjohnso@nsf.gov](mailto:egjohnso@nsf.gov) (703) 292-7718

Paul Lane [plane@nsf.gov](mailto:plane@nsf.gov) (703) 292-8339

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**Grant Program: Communications, Circuits, and Sensing-Systems (CCSS)****Agency: National Science Foundation NSF PD 18-7564****RFP Website:**[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=505248&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505248&org=NSF&sel_org=NSF&from=fund)

**Brief Description:** The Communications, Circuits, and Sensing-Systems (CCSS) Program supports innovative research in circuit and system hardware and signal processing techniques. CCSS also supports system and network architectures for communications and sensing to enable the next-generation cyber-physical systems (CPS) that leverage computation, communication, and sensing integrated with physical domains. CCSS invests in micro- and nano-electromechanical systems (MEMS/NEMS), physical, chemical, and biological sensing systems, neurotechnologies, and communication & sensing circuits and systems. The goal is to create new complex and hybrid systems ranging from nano- to macro-scale with innovative engineering principles and solutions for a variety of applications including but not limited to healthcare, medicine, environmental and biological monitoring, communications, disaster mitigation, homeland security, intelligent transportation, manufacturing, energy, and smart buildings. CCSS encourages research proposals based on emerging technologies and applications for communications and sensing such as high-speed communications of terabits per second and beyond, sensing and imaging covering microwave to terahertz frequencies, personalized health monitoring and assistance, secured wireless connectivity and sensing for the Internet of Things, and dynamic-data-enabled autonomous systems through real-time sensing and learning.

**Awards:** Proposals submitted to other program announcements and solicitations, including the Faculty Early Career Development Program (CAREER), must meet their respective deadlines; please refer to

the deadline dates specified in the appropriate announcement or solicitation. Proposals for EARly-concept Grants for Exploratory Research (EAGER) or Rapid Response Research (RAPID) can be submitted at any time but Principal Investigators must contact the cognizant program director prior to submission. Proposals for supplements or workshops can be submitted at any time, and PIs are encouraged to contact the cognizant PD prior to submission.

**Letter of Intent:** See the program information

**Full Proposal Submission Deadline:** Full Proposal Accepted Anytime

**Contacts:** Shubhra Gangopadhyay [sgangopa@nsf.gov](mailto:sgangopa@nsf.gov) (703) 292-8339

Jenshan Lin [jenlin@nsf.gov](mailto:jenlin@nsf.gov) (703) 292-8339

Akbar Sayeed [asayeed@nsf.gov](mailto:asayeed@nsf.gov) (703) 292-4753

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### **Grant Program: Innovation Corps - National Innovation Network Teams Program (I-Corps™ Teams)**

**Agency: National Science Foundation NSF 18-515**

**RFP Website:** <https://www.nsf.gov/pubs/2018/nsf18515/nsf18515.htm>

**Brief Description:** The National Science Foundation (NSF) seeks to develop and nurture a national innovation ecosystem that builds upon fundamental research to guide the output to facilitate the application of scientific discoveries closer to the development of technologies, products and processes that benefit society. In order to maintain, strengthen and grow a national innovation ecosystem, NSF has established the Innovation Corps - National Innovation Network Teams Program (I-Corps Teams). The NSF I-Corps Teams Program purpose is to identify NSF-funded researchers who will receive additional support in the form of entrepreneurial education, mentoring and funding to accelerate innovation that can attract subsequent third-party funding.

The purpose of the I-Corps Teams program is to identify NSF-funded researchers who will receive additional support in the form of entrepreneurial education, mentoring and funding to accelerate the translation of knowledge derived from fundamental research into emerging products and services that can attract subsequent third-party funding. The outcomes of I-Corps Teams projects will be threefold: 1) a clear go/no go decision based on an assessment of the viability of the overall business model, 2) substantial first-hand evidence for or against product-market fit, with a pithy definition of the customer segments and corresponding value propositions, and 3) a narrative of a compelling technology demonstration for potential partners.

**Awards:** Standard Grant **Anticipated Funding Amount:** \$12,750,000

**Letter of Intent:** See the program information

**Full Proposal Submission Deadline:** November 28, 2018

**Contacts:** Cindy WalkerPeach, telephone: 703 292-8437, email: [crwalker@nsf.gov](mailto:crwalker@nsf.gov)

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### **Grant Program: Division of Physics: Investigator-Initiated Research Projects (PHY)**

**Agency: National Science Foundation NSF 18-564**

**RFP Website:** <https://www.nsf.gov/pubs/2018/nsf18564/nsf18564.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; Computational Physics; Elementary Particle Physics; Gravitational Physics; Integrative Activities in Physics; Nuclear Physics; Particle Astrophysics; Physics of Living Systems; Plasma Physics (supported under a separate solicitation); and Quantum Information Science.

**Awards:** Standard Grant **Anticipated Funding Amount:** \$90,000,000

**Letter of Intent:** See the program information

**Full Proposal Submission Deadline:** November 28, 2018

**Contacts:** Krastan B. Blagoev, Physics of Living Systems, telephone: (703) 292-4666, email: [kblagoev@nsf.gov](mailto:kblagoev@nsf.gov)

- Michael J. Cavagnero, Atomic, Molecular and Optical Physics - Theory, telephone: (703) 292-2163, email: [mcavagne@nsf.gov](mailto:mcavagne@nsf.gov)
  - Mark Coles, Projects and Facilities, telephone: (703) 292-4432, email: [mcoles@nsf.gov](mailto:mcoles@nsf.gov)
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**Grant Program: Operations Engineering (OE)**

**Agency: National Science Foundation NSF PD 19-006Y**

**RFP Website:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=505202&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505202&org=NSF&sel_org=NSF&from=fund)

**Brief Description:** The Operations Engineering (OE) program supports fundamental research on advanced analytical methods for improving operations in complex decision-driven environments. Analytical methods include, but are not limited to, deterministic and stochastic modeling, optimization, decision and risk analysis, data science, and simulation. Methodological research is highly encouraged but must be motivated by problems that have potential for high impact in engineering applications. Application domains of particular interest to the program arise in commercial enterprises (e.g., production/manufacturing systems and distribution of goods, delivery of services), the public sector/government (e.g., public safety and security), and public/private partnerships (e.g., health care, environment and energy). The program also welcomes operations research in new and emerging domains and addressing systemic societal or technological problems. The OE program particularly values cross-disciplinary proposals that leverage application-specific expertise with strong quantitative analysis in a decision-making context. Proposals for methodological research that are not strongly motivated by high-potential engineering applications are not appropriate for this program.

**Awards:** Various

**Letter of Intent:** See the program information

**Full Proposal Submission Deadline:** Anytime

**Contacts:** Georgia-Ann Klutke [gaklutke@nsf.gov](mailto:gaklutke@nsf.gov) (703) 292-2443

Irina Dolinskaya [idolinsk@nsf.gov](mailto:idolinsk@nsf.gov) (703) 292-7078

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**Grant Program: Mind, Machine and Motor Nexus (M3X)**

**Agency: National Science Foundation NSF PD 19-058Y**

**RFP Website:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=505402&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505402&org=NSF&sel_org=NSF&from=fund)

**Brief Description:** The Mind, Machine and Motor Nexus (M3X) program supports fundamental research at the intersection of mind, machine and motor. A distinguishing characteristic of the program is an integrated treatment of human intent, perception, and behavior in interaction with embodied and intelligent engineered systems and as mediated by motor manipulation. M3X projects should advance the holistic analysis of cognition and of embodiment as present in both human and machine elements. This work will encompass not only how mind interacts with motor function in the manipulation of machines, but also how, in turn, machine response and function may shape and influence both mind and motor function.

The M3X program seeks to support the development of theories, representations, and working models that draw upon and contribute to fundamental understanding within and across diverse fields,

including but not limited to systems science and engineering; mechatronics; cognitive, behavioral and perceptual sciences; and applied computing. Research funded through this program is expected to lead to new computable theories and to the physical manifestation of these theories.

Application areas supported by the M3X program span the full breadth of the Division of Civil, Mechanical and Manufacturing Innovation. Methodological innovation is emphasized, as is a focus on engaging new and emerging thematic areas. The M3X program does not support disaggregated, parallel efforts from individual disciplines or investigators: rather, supported activities must strongly integrate across disciplines to enable discoveries that would not otherwise be possible. Additionally, the M3X program will not consider proposals that do not integrate physical considerations in a fundamental way. Principal investigators proposing pure artificial intelligence or pure machine learning research are referred to funding opportunities in the Directorate for Computer and Information Science and Engineering.

**Awards:** Various

**Letter of Intent:** See the program information

**Full Proposal Submission Deadline:** Anytime

**Contacts:** Robert Scheidt [rscheidt@nsf.gov](mailto:rscheidt@nsf.gov) 703-292-2477

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**Grant Program: Humans, Disasters, and the Built Environment (HDBE)**

**Agency: National Science Foundation NSF PD 19-8092**

**RFP Website:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=505572&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505572&org=NSF&sel_org=NSF&from=fund)

**Brief Description:** The Humans, Disasters and the Built Environment (HDBE) program supports fundamental, multidisciplinary research on the interactions between humans and the built environment within and among communities exposed to natural, technological and other types of hazards and disasters. The program's context is provided by ongoing and emerging changes in three interwoven elements of a community: its population, its built environment (critical infrastructures, physical and virtual spaces, and buildings and related structures) and the hazards and disasters to which it is exposed. The HDBE program seeks research that integrates these elements and that can contribute to theories that hold over a broad range of scales and conditions. Examples include but are not limited to unified frameworks and theoretical models that encompass non-hazard to extreme hazard and disaster conditions, theoretical and empirical studies that consider how interactions between a community's population and its built environment may suppress or amplify hazard exposure or its effects, and studies that seek to inform scholarship through the development of shared data and related resources. In these and other areas funded through the HDBE program, research that challenges conventional wisdom on the interactions among humans, the built environment and hazards and disasters is particularly encouraged. Given the richness of the phenomena under study, the HDBE program seeks research that advances theories, methods and data within and across diverse disciplines, whether in engineering, the social sciences, computing or other relevant fields. Ultimately, research funded through this program is expected to inform how communities can cultivate and engage a broad range of physical, social and other resources to ensure improved quality of life for their inhabitants.

**Awards:** Various

**Letter of Intent:** See the program information

**Full Proposal Submission Deadline:** Anytime

**Contacts:** Robin Dillon-Merrill [rdillonm@nsf.gov](mailto:rdillonm@nsf.gov) 703-292-4921

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**Grant Program: Mechanics of Materials and Structures (MOMS)**

**Agency: National Science Foundation NSF PD 19-1630**



**RFP Website:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13355&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13355&org=NSF&sel_org=NSF&from=fund)

**Brief Description:** The Mechanics of Materials and Structures program supports fundamental research in mechanics as related to the behavior of deformable solid materials and structures under internal and external actions. The program supports a diverse spectrum of research with emphasis on transformative advances in experimental, theoretical, and computational methods. Submitted proposals should clearly emphasize the contributions to the field of mechanics.

Proposals related to material response are welcome, including, but not limited to, advances in fundamental understanding of deformation, fracture, and fatigue as well as contact and friction. Proposals that relate to structural response are also welcome, including, but not limited to, advances in the understanding of nonlinear deformation, instability and collapse, and wave propagation. Proposals addressing mechanics at the intersection of materials and structures, such as, but not limited to, meta-materials, hierarchical, micro-architected and low-dimensional materials are also encouraged.

Proposals that explore and build upon advanced computing techniques and tools to enable major advances in mechanics are particularly welcome. For example, proposals incorporating reduced-order modeling, data-driven techniques, and/or stochastic methods with a strong emphasis on validation are encouraged. Also welcome are proposals addressing data analytics for deformation or damage response deduction from large experimental and computational data sets. Similarly, proposals that explore new experimental techniques to capture deformation and failure information for extreme ranges of loading or material behavior are also encouraged. Finally, experimental and computational methods that address information across multiple length and time scales, potentially involving multiphysics considerations are also welcome.

**Awards:** Various

**Letter of Intent:** See the program information

**Full Proposal Submission Deadline:** Anytime

**Contacts:** Siddiq Qidwai [moms@nsf.gov](mailto:moms@nsf.gov) (703) 292-2211

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**Grant Program: Civil Infrastructure Systems (CIS)**

**Agency:** National Science Foundation NSF PD 19-1631

**RFP Website:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13352&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13352&org=NSF&sel_org=NSF&from=fund)

**Brief Description:** The Civil Infrastructure Systems (CIS) program supports fundamental and innovative research in the design, operation and management of civil infrastructure that contributes to creating smart, sustainable and resilient communities at local, national and international scales. This program focuses on civil infrastructure as a system in which interactions between spatially- and functionally- distributed components and intersystem connections exist. All critical civil infrastructure systems are of interest, including transportation, power, water, pipelines and others.

The CIS program encourages potentially disruptive ideas that will open new frontiers and significantly broaden and transform relevant research communities. The program particularly welcomes research that addresses novel system and service design, system integration, big data analytics, and socio-technological-infrastructure connections. The program values diverse theoretical, scientific, mathematical, or computational contributions from a broad set of disciplines.

While component-level, subject-matter knowledge may be crucial in many research efforts, the program does not support research with a primary contribution pertaining to individual infrastructure components such as materials, sensor technology, extreme event analysis, human factors, climate modeling, structural, geotechnical, hydrologic or environmental engineering.

**Awards:** Various

**Letter of Intent:** See the program information



**Full Proposal Submission Deadline:** Anytime

**Contacts:** Cynthia Chen [gchen@nsf.gov](mailto:gchen@nsf.gov) (703) 292-2563

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**Grant Program: Engineering Design and System Engineering (EDSE)**

**Agency: National Science Foundation NSF PD 19-072Y**

**RFP Website:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=505478&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505478&org=NSF&sel_org=NSF&from=fund)

**Brief Description:** The Engineering Design and Systems Engineering (EDSE) program supports fundamental research into the basic processes and phenomena of engineering design and systems engineering. The program seeks proposals leading to improved understanding about how processes, organizational structure, social interactions, strategic decision making, and other factors impact success in the planning and execution of engineering design and systems engineering projects. It also supports advances pertaining to engineering design and systems engineering in areas that include, but are not limited to, decision making under uncertainty, including preference and demand modeling; problem decomposition and decision delegation; applications of reverse game theory (mechanism design); computer-aided design; design representation; system performance modeling and prediction; design optimization; uncertainty quantification; domain- or concern-specific design methods; and advanced computational techniques for supporting effective human cognition, decision making, and collaboration. Competitive proposals for novel methods will include a plan to evaluate rigorously the effectiveness and performance of the proposed approach. The EDSE program encourages multidisciplinary collaborations of experts in design and systems engineering with experts in other domains. Of particular interest is research on the design of engineering material systems that leverages the unique aspects of a particular material system to realize advanced design methods that are driven by performance metrics and incorporate processing/manufacturing considerations.

**Awards:** Various

**Letter of Intent:** See the program information

**Full Proposal Submission Deadline:** Anytime

**Contacts:** Richard . Malak [rmalak@nsf.gov](mailto:rmalak@nsf.gov) (703) 292-7902

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**Grant Program: Dynamics, Control and Systems Diagnostics (DCSD)**

**Agency: National Science Foundation NSF PD 19-7596**

**RFP Website:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=505182&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505182&org=NSF&sel_org=NSF&from=fund)

**Brief Description:** The Dynamics, Control and Systems Diagnostics (DCSD) program supports fundamental research on the analysis, measurement, monitoring and control of dynamic systems. The program promotes innovation in the following areas:

- Modeling: creation of new mathematical frameworks to apply tools of dynamics to physical systems
- Analysis: discovery and exploration of structure in dynamic behavior
- Diagnostics: dynamic methods that infer system properties from observations
- Control: methods that produce desired dynamic behavior

Proposals submitted to the DCSD program should clearly identify, articulate and motivate innovative components in one or more of the foundational areas above.

Furthermore, proposals should be aligned with the disciplinary thrusts of the CMMI division. To ensure that a project is appropriate for the DCSD program, PIs are very strongly encouraged to contact DCSD Program Directors prior to the full submission.

Innovative research that primarily concerns electromagnetic or chemical phenomena should be directed to the ECCS or CBET divisions. The DCSD Program does not fund fundamental research relating to sensing modalities or sensor development. Proposals offering fundamental research on sensing modalities should be submitted to the Communications, Circuits and Sensing Systems (CCSS) program or the Electronics, Photonics, and Magnetic Devices (EPMD) program in the ECCS Division.

**Awards:** Various

**Letter of Intent:** See the program information

**Full Proposal Submission Deadline:** Anytime

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Irina Dolinskaya [idolinsk@nsf.gov](mailto:idolinsk@nsf.gov) (703) 292-7078

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### **Grant Program: Biomechanics and Mechanobiology (BMMB)**

**Agency:** National Science Foundation NSF PD 19-7479

**RFP Website:**

[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=13523&org=NSF&sel\\_org=NSF&from=fund](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13523&org=NSF&sel_org=NSF&from=fund)

**Brief Description:** The BMMB program supports fundamental research in biomechanics and mechanobiology. The program emphasizes multiscale mechanics approaches that integrate across molecular, cell, tissue and organ domains in the study of organisms. Projects may include theoretical, computational, and experimental approaches. An important concern is the influence of in vivo mechanical forces on cell and matrix biology in the histomorphogenesis, maintenance, regeneration and aging of tissues. The program also is interested in efforts to translate recent mechanobiological discoveries into engineering science. The program encourages the consideration of diverse living tissues as smart materials that are self-designing.

**Awards:** Various

**Letter of Intent:** See the program information

**Full Proposal Submission Deadline:** Anytime

**Contacts:** Michele J. Grimm [mgrimm@nsf.gov](mailto:mgrimm@nsf.gov) (703) 292-4641

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### **National Institutes of Health**

#### **Grant Program: Investigator Initiated Research in Computational Genomics and Data Science (R01 R21 Clinical Trial Not Allowed)**

**Agency:** National Institutes of Health PAR-18-844

**RFP Website:** <https://grants.nih.gov/grants/guide/pa-files/PAR-18-844.html>

**Brief Description:** Through this FOA, NHGRI seeks to fund innovative research efforts in computational genomics, data science, statistics, and bioinformatics for basic or clinical genomic sciences, and broadly applicable to human health and disease, as well as research leading to improvement of existing software or approaches demonstrated to be in broad use by the genomics community.

Research topics appropriate for this FOA include, but are not limited to, development of novel computational, bioinformatics, statistical, or analytical approaches, tools, or software for:

- Interactive analysis and visualization of large genomic data sets.
- Identification or prioritization of disease-causal genetic variants.
- Causal statistical modeling related to genomic research.
- Analysis of single-cell or sub-cellular genomic data both in situ and in dissociated cells.
- Integrating model organism data and information with human data.

- Integrating and interpreting various genomic data types, including sequence data, functional data, phenotypic data, and clinical data.
- Processing and integrating genome sequence data to enhance representation of population variation.
- Processing sequence data for sequence assembly, variant detection (SNPs and SVs), imputation, and resolution of haplotypes.
- Development of efficient and scalable algorithms for compute-intensive genomic applications.
- Achieving major cost reductions in genomic data processing and analysis.
- Enabling scalable and cost-effective curation of FAIR metadata for genomic and phenotypic data.
- Enhancing secure sharing and use of genomic data in combination with clinical data.
- Processing or analyzing new genomic data types, or major improvement in processing or analyzing existing genomic data types.
- Rigorous benchmarking of tools, methods, or algorithms for genomics.
- Hardening an existing widely-used genomic data processing pipeline to enable its reproducible implementation by the biomedical research community.

**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

**Deadline:** November 16, 2018; July 16, 2019; November 16, 2019; July 16, 2020; November 16, 2020; July 16, 2021, by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on these dates.

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

## **Grant Program: High-Priority Behavioral and Social Research Networks (R24 Clinical Trial Not Allowed)**

**Agency:** National Institutes of Health RFA-AG-19-015

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-AG-19-015.html>

**Brief Description:** This FOA is designed to address the network development needs of researchers interested in advancing transdisciplinary aging-relevant research agendas in the social and behavioral sciences. The goal is to produce resources that will serve the field at large. Applications must propose efforts to advance one of the above-listed high priority aging-relevant research areas in the behavioral and social sciences. Applications should prepare plans for new high impact activities that are not feasible with existing resources. For the purposes of this FOA, aging-relevant research is that which addresses issues of importance to the well-being and health of either mid-life or older adults and can include data spanning the entire life course. Applicants need not have a prior history of conducting research in aging.

Network support includes all activities designed to bring together leading scientists across disciplines and institutions to develop an emerging priority area. This program is intended to be flexible and support the creation of innovative networks that will propose activities and bring unique resources necessary to advance a set of well-articulated research goals. The application should be designed to have a substantial impact on the progress and quality of behavioral and social research of relevance to aging by virtue of the proposed activities. Networks are intended to serve the broader community of behavioral and social researchers engaged in aging-relevant research in the designated scientific area and are consequently unlikely to be limited to a single institution. Applications should propose activities designed to advance a field to the point of no longer requiring network support to sustain growth. Applicants should articulate criteria for assessing this progress.

**Awards:** Application budgets may not exceed \$250,000 per year in direct costs and need to reflect actual needs of the proposed project.

**Letter of Intent:** January 1, 2019

**Deadline:** February 1, 2019, by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on this date.

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

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: Lab to Marketplace: Tools for Brain and Behavioral Research (R43/R44 - Clinical Trial Optional)**

**Agency:** National Institutes of Health PAR-18-819

**RFP Website:** <https://grants.nih.gov/grants/guide/pa-files/PA-18-819.html>

**Brief Description:** This Funding Opportunity Announcement (FOA) encourages the translation of technologies for brain or behavioral research from academic and other non-small business research sectors to the marketplace. Encouraged from Small Business Concerns (SBCs) are Small Business Innovation Research (SBIR) grant applications that propose to further develop, make more robust, and make more user-friendly such technologies in preparation for commercial dissemination. It is expected that this activity will require partnerships and close collaboration between the original developers of these technologies and SBCs, which may be accomplished in any of a number of ways, including the use of multiple program directors/principal investigators.

**Awards:** Budgets of up to total \$450,000 per year total cost for Phase I awards and \$750,000 per year total cost for Phase II awards.

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

**Deadline:** [Standard dates](#) apply, by 5:00 PM local time of applicant organization.

\*\*\* Note new SBIR/STTR Standard Due Dates.

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

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**Grant Program: BRAIN Initiative Advanced Postdoctoral Career Transition Award to Promote Diversity (K99/R00 Independent Clinical Trial Not Allowed)**

**Agency:** National Institutes of Health PAR-18-814

**RFP Website:** <https://grants.nih.gov/grants/guide/pa-files/PAR-18-814.html>

**Brief Description:** The objective of the NIH BRAIN Initiative Advanced Postdoctoral Career Transition Award to Promote Diversity (K99/R00) is to help outstanding postdoctoral researchers from diverse backgrounds with the opportunity to complete needed, mentored training and transition in a timely manner to independent, tenure-track or equivalent faculty positions. The BRAIN Initiative Diversity K99/R00 program is intended to foster the development of a creative, independent researcher that will be competitive for subsequent independent funding and that will help advance the mission of the NIH and BRAIN Initiative research areas in particular. Applicants must have no more than 5 years of postdoctoral research experience at the time of the initial or the subsequent resubmission application. The K99/R00 award is intended for individuals who require at least 12 months of mentored research training and career development (K99 phase) before transitioning to the R00 award phase of the program. Consequently, the strongest applicants will require, and will propose, a well-conceived plan for 1–2 years of substantive mentored research training and career development that will help them become competitive candidates for tenure-track faculty positions and prepare them to launch robust, independent research programs. *An*

*individual who cannot provide a compelling rationale for at least one year of additional mentored research training at the time of award is not a strong candidate for this award.*

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

**Letter of Intent:** Not applicable

**Deadline:** The first due date is August 1, 2018; [Standard dates](#) apply after that, by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on these dates.

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

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

**Agency: National Institutes of Health RFA-RM-18-008**

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-RM-18-008.html>

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

The NIH Director's New Innovator Award is different from traditional NIH grants in several ways. It is designed specifically to support unusually creative investigators with highly innovative research ideas at an early stage of their career when they may lack the preliminary data required for an R01 grant application. The emphasis is on innovation and creativity; preliminary data are not required, but may be included. No detailed, annual budget is requested in the application. The review process emphasizes the individual's creativity, the innovativeness of the research approaches, and the potential of the project, if successful, to have a significant impact on an important biomedical or behavioral research problem.

Investigators who were not selected for an award in prior years may submit applications this year as long as they retain their ESI (early stage investigator) eligibility; however, all applications must be submitted as "new" applications regardless of any previous submission to the program. No reference to any prior application may be included. Any reference to prior applications may be grounds for administrative withdrawal.

The NIH Director's New Innovator Award is part of the [High-Risk, High-Reward Research program](#) funded through the [NIH Common Fund](#), which supports cross-cutting programs that are expected to have exceptionally high impact. All Common Fund initiatives invite investigators to develop bold, innovative, and often risky approaches to address problems that may seem intractable or to seize new opportunities that offer the potential for rapid progress.

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

**Letter of Intent:** Not applicable

**Deadline:** September 21, 2018, by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on this date. No late applications will be accepted for this Funding Opportunity Announcement.

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

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

**Agency: National Institutes of Health RFA-RM-18-009**

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-RM-18-009.html>

**Brief Description:** The [NIH Director's Transformative Research Award](#) supports collaborative investigative teams or individual scientists who propose unusually innovative research projects, which, if successful, would have a major impact in a broad area of biomedical or behavioral research. To be considered transformative, projects must have the potential to create or overturn fundamental scientific paradigms through novel approaches, transform the way research is conducted through the development of novel tools or technologies, or lead to major improvements in health through the development of highly innovative therapies, diagnostic tools, or preventive strategies. Consistent with this focus, Transformative Research Award applications should reflect ideas substantially different from mainstream concepts.

Several key features of this FOA are designed to emphasize to applicants and peer reviewers that Transformative Research applications are very different from conventional, investigator-initiated research applications. The Transformative Research application focuses on the importance of the problem, the novelty of the hypothesis and/or the proposed methodology, and the magnitude of the potential impact rather than on preliminary data or experimental details. Reviewers will be instructed to emphasize the significance and innovation of the application in their evaluations. Applicants and reviewers should keep the goal of the Transformative Research Award in mind throughout the process— to solicit and fund unusually innovative and potentially transformative research.

The [NIH Director's Transformative Research Award](#) is part of the [High-Risk, High-Reward Research program](#) funded through the [NIH Common Fund](#), which supports cross-cutting programs that are expected to have exceptionally high impact. All Common Fund initiatives invite investigators to develop bold, innovative, and often risky approaches to address problems that may seem intractable or to seize new opportunities that offer the potential for rapid progress.

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

**Letter of Intent:** Not applicable

**Deadline:** September 21, 2018, by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on this date. No late applications will be accepted for this Funding Opportunity Announcement.

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: BRAIN Initiative: Exploratory Team-Research BRAIN Circuit Programs - eTeamBCP (U01 Clinical Trial Not Allowed)**

**Agency: National Institutes of Health RFA-NS-18-029**

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-NS-18-029.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, which will provide a foundation for understanding and treating diverse neurological, psychiatric, and behavioral disorders. It is the dynamic activity of massively interconnected ensembles of neurons in specially organized networks that give rise to the internal states we experience as sensations, perceptions, emotions, thoughts, memories, and movements. The activity of these networks is the substrate of cognitive processes such as attention, intention, emotions, and rational processes such as reasoning and decision making. Ultimately, these covert, internal activities are translated into patterns of neural activation that lead to overt behaviors, from simple reflexes to highly coordinated movements such as reaching and walking, to more complex behaviors such as navigating the environment and foraging, or speech and language. Dysfunction of these large systems of neurons due to disease, injury or developmental anomaly are the basis of neural and



mental disorders. The mission of the NIH BRAIN initiative is to understand how large scale neural systems contribute to cognitive and neurological function in both health and disease.

We can seek to understand circuits of the brain by systematically controlling stimuli and measuring the resulting behaviors, while actively recording and manipulating the dynamic patterns of neural activity. We now have transformational technologies that allow us to record large, interrelated ensembles of neurons on an unprecedented scale during active behaviors. For example, it is now possible to study the collective neural activities of entire sensory-motor circuits. By clever manipulation of environments and contingencies, we can devise behavioral tasks that engage memories, decision making, and selective attention, while documenting and manipulating the functional relationships within the neural circuits that subtend the behaviors.

Increasingly, sophisticated approaches are required for data acquisition, analysis, interpretation, and dissemination. These demanding requirements often involve expertise not typically associated with traditional neurobiological experiments and training, such as expertise in computer and information science, hardware and software engineering, statistics, machine learning, and computational methods. As new, large-scale, systems approaches become routine, it will be essential to develop testable theories of how information originating from millions of neurons in diverse and widespread brain regions can be integrated to produce a wide range of motor, sensory and cognitive behaviors, and how this information evolves dynamically to adapt, refine and learn.

The purpose of this FOA is to provide resources for integration of experimental, analytic, and theoretical capabilities for large-scale analysis of neural systems and circuits within the context, and during the simultaneous measurement of complex behavior. We seek applications to build teams of experts for exploratory studies that integrate theory and modeling with new and emerging methods for recording and manipulating neural circuits across multiple brain regions, to elucidate a specific behavioral or neural system in terms of dynamic circuit activity. Novel and innovative approaches to theory and analysis are expected. Multiple species are encouraged where fundamental principles can be revealed with comparative approaches.

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

**Letter of Intent:** June 23, 2018

**Deadline:** July 23, 2018 and June 10, 2019 by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on this date.

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: BRAIN Initiative: Development and Validation of Novel Tools to Probe Cell-Specific and Circuit-Specific Processes in the Brain (R01 Clinical Trial Not Allowed)**

**Agency: National Institutes of Health RFA-MH-19-136**

**RFP Website:** <https://grants.nih.gov/grants/guide/rfa-files/RFA-MH-19-136.html>

**Brief Description:** This funding opportunity announcement (FOA) is designed to support development and validation of novel tools to facilitate the detailed analysis of cells and circuits and provide insights into the neural circuitry and structure underlying complex behaviors. The human brain consists of an estimated one hundred billion neurons and more than one trillion supporting glial cells that are uniquely organized to confer the extraordinary computational activities of the brain. Cell types are categorized by their anatomical position, neurotransmitter content, dendritic and axonal connections, receptor profile, gene expression profile and distinct electrical properties. Although the human brain has long been the focus of numerous studies with many major achievements along the way, to date we remain largely ignorant about the specific details such as cell types and connections that are responsible for rapid information processing. Defining cellular and circuit-level function is dependent on detailed knowledge about the components and structure of the circuit. Such knowledge, in turn, is fundamental to

understanding how these features underlie cognition and behavior, which should aid in the development of targeted cell-type and circuit-specific therapeutics to treat brain disorders. This initiative is focused on developing tools (or vastly improving existing tools) to enable access to individual cells and defined groups of cells within neuronal circuits. The tools sought through this FOA can include novel genetic or non-genetic methods for targeted delivery of genes, proteins, and chemicals to specific cells or tightly defined cell types and circuits.

Development of novel tools that will delineate anatomical connections between cells and expand our knowledge of circuit architecture and function is an area well poised for additional investment. Several efforts are currently underway to study large-scale, long-range connections, such as the NIH Human Connectome Project, as well as large scale rodent connectational studies. Recent development of new technologies (e.g., CLARITY, expansion microscopy, MerFISH, and several other imaging breakthroughs) allow an unprecedented three-dimensional view into the post-mortem brain. While still at an early stage, these exciting technologies hold promise for mapping short- and long-range connections throughout the brain. Coupled with improved activity monitoring technologies in awake, behaving animals, these new tools promise an understanding of circuitry in action. Further development of these technologies is crucial to push the envelope beyond our current capabilities. To this end, applicants from the biological sciences are encouraged to establish collaborations with nanobiologists, material scientists, engineers and colleagues in other disciplines to develop groundbreaking approaches to study brain activity.

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

**Letter of Intent:** August 27, 2018

**Deadline:** September 27, 2018, by 5:00 PM local time of applicant organization. All [types of non-AIDS applications](#) allowed for this funding opportunity announcement are due on this date. No late applications will be accepted for this Funding Opportunity Announcement. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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

### **Grant Program: Peer Reviewed Orthopaedic Research Program Applied Research Award**

**Agency:** Department of Defense Dept. of the Army – USAMRAA W81XWH-18-PRORP-ARA

**Website:** <http://cdmrp.army.mil/funding/prorp>

**Brief Description:** An estimated 3,700 civilian amputations occur annually as a result of traumatic injury. In the military, extremity battle wounds comprise approximately 50% of injuries in the Joint Theater Trauma Registry. However, orthopaedic injuries and conditions that occur outside of combat (during training, leisure activities, resultant from old injuries, etc.) are the greatest threat to the readiness of our Service members and military. Early stabilization and treatment of orthopaedic injuries in both civilian and military populations have led to better outcomes, particularly in the prevention of secondary complications and in minimizing morbidity. Availability of orthopaedic care and treatment as early as possible, or as close to the point of injury as possible, also minimizes limb loss and loss of troop readiness. However, in potential future conflicts in rural areas, austere combat zones, or in mass casualty events, access to medical care may be delayed for hours, if not days or weeks.

The North Atlantic Treaty Organization (NATO) defines Prolonged Field Care (PFC) as field trauma care extended beyond doctrinal timelines until the patient can be transported from the point of injury to an appropriate level of care. PFC has been identified as the number one capability gap across the Army, and a major priority for other Services. Additional information regarding PFC can be found in the following documents: [http://www.wemjournal.org/article/S1080-6032\(17\)30063-7/pdf](http://www.wemjournal.org/article/S1080-6032(17)30063-7/pdf) and

[http://mrmc.amedd.army.mil/index.cfm?pageid=media\\_resources.articles.prolonged\\_field\\_care\\_the\\_new\\_normal](http://mrmc.amedd.army.mil/index.cfm?pageid=media_resources.articles.prolonged_field_care_the_new_normal).

**Awards:** Research proposed under the FY18 PRORP ARA may include small- to largescale projects. These awards are expected to yield potential health products, approaches, or technologies positioned for human testing. Upon successful completion, the proposed research is expected to yield knowledge products, approaches, or technologies that have the potential to advance toward clinical translation. Strong transition plans are expected. Applicants to the FY18 PRORP ARA are asked to consider, where appropriate, the inclusion of large animal studies in their research plan.

**Proposal Deadline:** Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), July 30, 2018

• Invitation to Submit an Application: September 5, 2018

• Application Submission Deadline: 11:59 p.m. ET, October 24, 2018

**Contact Information:** CDMRP Help Desk

Phone: 301-682-5507

Email: [help@eBRAP.org](mailto:help@eBRAP.org)

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**Grant Program: Research Interests of the Air Force Office of Scientific Research**

**Agency: Department of Defense Air Force Office of Scientific Research FA9550-18-S-0003**

**Website:** <http://www.federalgrants.com/Research-Interests-of-the-Air-Force-Office-of-Scientific-Research-71509.html>

**Brief Description:** The Air Force Office of Scientific Research manages the basic research investment of the U.S. Air force. As a part of the Air Force Research Laboratory (AFRL), our technical experts discover, shape, and champion research within AFRL, universities, and industry laboratories to ensure the transition of research results to support U.S. Air Force needs. Using a carefully balanced research portfolio, our research managers seek to foster revolutionary scientific breakthroughs enable the Air force and U.S. industry to produce world-class, militarily significant, and commercially valuable products.

**Awards:** Various; The FY18 appropriation is \$100M.

**Proposal Deadline:** June 30th, 2019

**Contact Information:** Melissa A. Campbell Procurement Analyst Phone 703-696-7722  
[Business Office Email](#)

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**Grant Program: DoD Orthotics and Prosthetics Outcomes, Clinical Research Award**

**Agency: Department of Defense Dept of Army W81XWH-18-OPORP-CRA**

**Website:** <https://www.arl.army.mil/www/default.cfm?page=8>

**Brief Description:** Applications to the FY18 OPORP Clinical Research Award (CRA) must address at least one of the Focus Areas listed below. Selection of the appropriate primary Focus Area is the responsibility of the applicant. Studies that propose development of a new technology or improvement of an existing technology are not allowed according to Congressional intent of the OPORP. • Orthotic or Prosthetic Device Form: Understand patient outcomes through the analysis and characterization of variables related to the form of currently available clinical options such as device size, shape, material, and/or configurations. • Orthotic or Prosthetic Device Fit: Understand patient outcomes related to human-device interface and component connection through the analysis of variables in currently available clinical options that facilitate fit-related metrics such as comfort and/or usability. • Orthotic or Prosthetic Device Function: Understand patient outcomes through the analysis of variables related to currently available device function such as device control, sensors, and passive or active response with respect to activities of daily living and other real-world activities.

**Awards:** Various; The FY18 appropriation is \$10M.

**Proposal Deadline:**

Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), August 6, 2018 • Invitation to Submit an Application: September 5, 2018 • Application Submission Deadline: 11:59 p.m. ET, October 25, 2018

**Contact Information: Contact Information:** Questions related to Program Announcement content or submission requirements as well as questions related to the pre-application or intramural application submission through eBRAP should be directed to the CDMRP Help Desk, which is available Monday through Friday from 8:00 a.m. to 5:00 p.m. ET. Response times may vary depending upon the volume of inquiries. Phone: 301-682-5507 Email: [help@eBRAP.org](mailto:help@eBRAP.org)

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**Grant Program: Spinal Cord Injury Research Program Investigator-Initiated Research Award**

**Agency: Department of Defense Dept of Army W81XWH-18-SCIRP-IIRA**

**Website:** <https://www.arl.army.mil/www/default.cfm?page=8>

**Brief Description:** Applications to the Fiscal Year 2018 (FY18) Spinal Cord Injury Research Program (SCIRP) are being solicited for the Defense Health Agency (DHA) J9, Research and Development Directorate, by the U.S. Army Medical Research Acquisition Activity (USAMRAA) using delegated authority provided by United States Code, Title 10, Section 2358 (10 USC 2358). As directed by the Office of the Assistant Secretary of Defense for Health Affairs (OASD[HA]), the DHA manages the Defense Health Program (DHP) Research, Development, Test, and Evaluation (RDT&E) appropriation. The execution management agent for this Program Announcement is the Congressionally Directed Medical Research Programs (CDMRP). The SCIRP was initiated in 2009 to provide support for research of exceptional scientific merit that has the potential to make a significant impact on improving the health and well-being of military Service members, Veterans, and other individuals living with spinal cord injury (SCI). Appropriations for the SCIRP from FY09 through FY17 totaled \$217.85 million (M). The FY18 appropriation is \$30M.

To meet the intent of the award mechanism, applications must address at least one of the FY18 SCIRP IIRA Focus Areas listed below. Applications may address more than one Focus Area. In particular, applications combining biomarker studies with studies in one or more of the following Focus Areas are encouraged: preserving and protecting tissues after injury; bladder dysfunction, bowel dysfunction, and neuropathic pain; and rehabilitation and regeneration. Applications using clinically relevant combinations of interventions within or across Focus Areas are also encouraged.

- Preserving and protecting tissue early after injury: Applications should demonstrate a clear path from proposed research to improved neurological outcomes. ○ Preclinical and clinical studies are supported in this FY18 SCIRP IIRA Focus Area.

Includes surgical and acute care management of SCI. ○ Early therapeutics (devices and pharmacologic interventions) to stabilize SCI in the prehospital environment and during transport are encouraged. ○ Applications proposing neuroprotective interventions need to demonstrate a clinically feasible window for treatment and more than an incremental improvement over existing therapies.

- Biomarkers: Identifying and validating SCI biomarkers for diagnosis, prognosis, and evaluation of treatment efficacies: ○ Preclinical and clinical studies are supported in this FY18 SCIRP IIRA Focus Area. Correlative studies with existing clinical trials are allowed and encouraged. ○ Biomarkers must focus on diagnosis, prognosis, progression, and/or recovery of SCI. ○ Projects can include imaging and other modalities. ○ Applications should demonstrate a clear path to clinical use. ○ Biomarker studies directed at identifying the best single or combination of treatments for individuals (personalized medicine) are encouraged.

**Awards:** The anticipated direct costs budgeted for the entire period of performance for an FY18 SCIRP IIRA will not exceed \$500,000. Refer to Section II.D.5, Funding Restrictions, for detailed funding information.

**Proposal Deadline:**

Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), July 9, 2018 • Invitation to Submit an Application: August 2018 • Application Submission Deadline: 11:59 p.m. ET, October 15, 2018

**Contact Information:** Questions related to Program Announcement content or submission requirements as well as questions related to the pre-application or intramural application submission through eBRAP should be directed to the CDMRP Help Desk, which is available Monday through Friday from 8:00 a.m. to 5:00 p.m. ET. Response times may vary depending upon the volume of inquiries. Phone: 301-682-5507  
Email: [help@eBRAP.org](mailto:help@eBRAP.org)

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

**Agency: Department of Defense Dept of Army W81XWH-18-HRRP-FARA**

**Website:** <https://www.arl.army.mil/www/default.cfm?page=8>

**Brief Description:** The FY18 HRRP FARA mechanism is intended to support applied research that will advance the diagnosis and treatment of auditory dysfunction where hearing sensitivity may be within normal limits but the individual's capacity to listen and understand speech is substantially impaired. Such listening difficulties are often described using terms such as synaptopathy, hidden hearing loss, and central auditory processing disorders. These disorders can be triggered by exposure to loud noises such as those encountered on the battlefield or certain work environments. While these types of auditory dysfunction may severely affect the ability of a person to hear and interpret speech, they are not readily diagnosed by typical hearing tests. If a Service member cannot effectively hear battlefield communication and sounds, s/he may pose a danger to himself/herself, others in the unit, and the mission. There is a great need for validated and reliable techniques and methods to detect and assess these types of auditory dysfunction, especially techniques and methods that can be applied by a non-specialist (e.g., physician assistants, medics, or corpsmen) in the operational environment (e.g., a Forward Operating Base or a Battalion Aid Station) to quickly screen Service members for combat readiness. Techniques and methods are further needed to identify the component(s) of the auditory system or pathway that is (are) damaged. Interventions are needed to treat different types of damage (e.g., synaptopathy, central auditory processing disorder) or mitigate their adverse effects on hearing. It is expected that the diagnostic tools, tests, and treatments developed under the FARA would also benefit the general public by advancing hearing loss prevention/treatment and improving hearing health care for individuals in rural or remote deployed environments.

**Awards:** Various; The FY18 appropriation is \$10M.

**Proposal Deadline:**

Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), July 17, 2018 • Invitation to Submit an Application: September 2018 • Application Submission Deadline: 11:59 p.m. ET, November 8, 2018

**Contact Information:** Questions related to Program Announcement content or submission requirements as well as questions related to the pre-application or intramural application submission through eBRAP should be directed to the CDMRP Help Desk, which is available Monday through Friday from 8:00 a.m. to 5:00 p.m. ET. Response times may vary depending upon the volume of inquiries. Phone: 301-682-5507  
Email: [help@eBRAP.org](mailto:help@eBRAP.org)

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

**Agency: Department of Defense Naval Research Laboratory N00173-18-S-BA01**

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

**Brief Description:** The Naval Research Laboratory (NRL) The Naval Research Laboratory (NRL) is the Navy's corporate laboratory. NRL conducts basic and applied research for the Navy in a variety of



scientific and technical disciplines. The basic research program is driven by perceptions about future requirements of the Navy. NRL conducts most of its research program at its own facilities but also funds some related research such as anticipated by this announcement. More extensive research support opportunities are available from the Naval Research Laboratory (NRL). NRL announcements may be accessed via the Internet at <https://www.nrl.navy.mil/doingbusiness/contracting-division/baa>. NRL is interested in receiving proposals for Long-Range Science and Technology (S&T) Projects which offer potential for advancement and improvement of Navy and Marine Corps operations. Readers should note that this is an announcement to declare NRL's broad role in competitive funding of meritorious research across a spectrum of science and engineering disciplines. A brief description of the NRL Program Codes and the science and technology thrusts that NRL is pursuing is provided below. Additional information can be found at the NRL website at <https://www.nrl.navy.mil/research/directorates-divisions/>. This announcement is an expression of interest only and does not commit the Government to make any award or to pay for any proposal preparation costs. The cost of proposal preparation for response to a BAA is not considered an allowable direct charge to any resultant contract or any other contract; however, it may be an allowable expense to the normal bid and proposal indirect cost specified in FAR 31.205-18.

**Awards:** Various

**Proposal Deadline:** May 9, 2019

**Contact Information:** Mary Johnson Contract Specialist Phone 202-767-2021

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## **Department of Education**

**Grant Program: Institute of Education Sciences (IES): Education Research CFDA Number 84.305A**

**Agency: Department of Education ED-GRANTS-052118-001**

**Website:** <https://www.gpo.gov/fdsys/pkg/FR-2018-05-21/pdf/2018-10802.pdf>

**Brief Description:** Each funding opportunity description is a synopsis of information in the Federal Register application notice. For specific information about eligibility, please see the official application notice. The official version of this document is the document published in the Federal Register. Free Internet access to the official edition of the Federal Register and the Code of Federal Regulations is available on GPO Access at: <http://www.access.gpo.gov/nara/index.html>. Please review the official application notice for pre-application and application requirements, application submission information, performance measures, priorities and program contact information.

For the addresses for obtaining and submitting an application, please refer to our Common Instructions for Applicants to Department of Education Discretionary Grant Programs, published in the Federal Register on February 12, 2018 (83 FR 6003) and available at [www.gpo.gov/fdsys/pkg/FR-2018-02-12/pdf/2018-02558.pdf](http://www.gpo.gov/fdsys/pkg/FR-2018-02-12/pdf/2018-02558.pdf).

The dates when applications are available and the deadlines for transmittal of applications invited under this notice are indicated in the chart at the end of this notice and in the Requests for Applications (RFAs) that are posted at the following websites: <https://ies.ed.gov/funding>, <https://www.ed.gov/programs/edresearch/index.html>, and <https://www.ed.gov/programs/specialedresearch/index.html>.

**FOR FURTHER INFORMATION CONTACT:** The contact person associated with a particular research competition is listed in the chart at the end of this notice, as well as in the relevant RFA and application package.

**Purpose of Program:** In awarding these grants, the Institute of Education Sciences (Institute) intends to provide national leadership in expanding fundamental knowledge and understanding of (1) developmental and school readiness outcomes for infants and toddlers with or at risk for a disability, (2)



education outcomes for all students from early childhood education through postsecondary and adult education, and (3) employment and wage outcomes when relevant (such as for students who engaged in career and technical, postsecondary, or adult education). The Institute's research grant programs are designed to provide interested individuals and the general public with reliable and valid information about education practices that support learning and improve academic achievement and access to education opportunities for all students. These interested individuals include parents, educators, students, researchers, and policymakers. In carrying out its grant programs, the Institute provides support for programs of research in areas of demonstrated national need.

**Competitions in This Notice:** The Institute will conduct nine research competitions in FY 2019 through two of its centers: The Institute's National Center for Education Research (NCER) will hold a total of five competitions--one competition in each of the following areas: Education research; education research and development centers; statistical and research methodology in education; partnerships and collaborations focused on problems of practice or policy; and low-cost, short-duration evaluation of education interventions.

Catalog of Federal Domestic Assistance (CFDA) numbers 84.305A, 84.305C, 84.305D, 84.305H, 84.305L, 84.324A, 84.324B, 84.324L, and 84.324N.

**Awards:** Up to \$4,000,000. Estimated total funding: \$115,000,000

**Proposal Deadline:** Aug 23, 2018 Application Package Available: June 21, 2018. Deadline for Transmittal of Applications: August 23, 2018

**Contact Information:** Julius Cotton ED Grants.gov FIND Systems Admin. Phone 202-245-6288 [EducationGrantInquiries@ed.gov](mailto:EducationGrantInquiries@ed.gov)

Program Manager: Molly Faulkner-Bond e-Mail: [Molly.Faulkner-Bond@ed.gov](mailto:Molly.Faulkner-Bond@ed.gov) .

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## **Department of Energy**

### **Grant Program: Integrated University Program (IUP): Enabling Technologies and Innovation (ETI) & Monitoring, Technology and Verification (MTV)**

**Agency: Department of Energy DE-FOA-0001875**

**Website:** <https://www.fedconnect.net/FedConnect/default.htm>

**Brief Description:** The mission of the U.S. Department of Energy (DOE), National Nuclear Security Administration (NNSA), Office of Defense Nuclear Nonproliferation Research and Development (DNN R&D) is to support U.S. national and nuclear security objectives in reducing global nuclear security threats through the innovation of unilateral and multi-lateral technical capabilities to detect, identify, and characterize: 1) foreign nuclear weapons programs, 2) illicit diversion of special nuclear materials, and 3) global nuclear detonations. Section 313 of the Omnibus Appropriations Act of 2009 (H.R. 1105, P.L. 111-8) created the Integrated University Program (IUP). DNN R&D is one of the three participants in this program and is continuing a nuclear science and engineering program, including nuclear security, to support multi-year research projects. The role of Institutions of Higher Education (IHE; as defined in Section III.A. of the FOA) for nuclear security research and development is to innovate and develop some of the most challenging basic aspects of new technology and methods. Once these basic aspects have been proven at the IHE level, the DOE/NNSA National Laboratories and/or National Security Sites/Complexes can fulfill their unique role to perform mission-specific research and development that improves on capabilities until they are either adopted by operational enterprises or transitioned into private industry for commercialization. Transparently and effectively linking these IHE and DOE/NNSA National Laboratory and/or National Security Sites/Complexes roles represents the core of how DNN R&D proposes to meet its objectives. The intent of this FOA is to award TWO separate five-year cooperative agreements to consortia of accredited IHEs to allow them to receive and administer funds for student and faculty research, fellowships, and scholarship funding awarded by DOE/NNSA, DNN R&D. Each

cooperative agreement will be awarded to a consortium of IHEs which will include the participation of DOE/NNSA National Laboratories and/or National Security Sites/Complexes as a consortium-member(s). Individual consortium-member IHEs shall make specific contributions and shall receive specified portions of the funding. The consortium may include student and research fellows and must have a long-term objective of building expertise in nuclear nonproliferation detection. Research results should be incorporated readily into IHE curricula. Students, faculty, and researchers must be able to work unencumbered while moving across what are now organizational and bureaucratic boundaries of the academic and governmental facilities engaged in the consortium, while properly protecting critical information and materials. The consortium should establish reciprocal arrangements between the lead IHE and other IHEs as well as relationships with appropriate DOE/NNSA National Laboratories and/or National Security Sites/Complexes.

**Awards;** Up to \$25,000,000; Available Funding: \$50,000,000

**Submission Deadline:** Sep 04, 2018 Application deadline is September 4, 2018, 11:59PM Eastern Standard Time.

**Contact Information:** Grant Specialist Alex Trejo 505-845-5472 [alex.trejo@nnsa.doe.gov](mailto:alex.trejo@nnsa.doe.gov)

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## NASA

**Grant Program: ROSES 2018: DSCOVER Science Team**

**Agency: NASA NNH18ZDA001N-DSCOVER**

**Website:** <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B9C06DA13-5411-0043-725E-24CAB3A588F6%7D&path=open&method=init>

**Brief Description:** NASA's Earth Science Research Program supports research activities that address the Earth system and seek to characterize its properties on a broad range of spatial and temporal scales, to understand the naturally occurring and human-induced processes that drive them, and to improve our capability for predicting its future evolution. The focus of the Earth Science Research Program is the use of space-based measurements to provide information not available by other means. NASA's program is an end-to-end one that starts with the development of observational techniques and the instrument technology needed to implement them; tests them in the laboratory and from an appropriate set of in situ, surface-, ship-, balloon-, aircraft-, and/or space-based platforms; uses the results to increase basic process knowledge; incorporates results into complex computational models that can be used to more fully characterize the present state and future evolution of the Earth system; and develops partnerships with other national and international organizations that can use the generated information in environmental forecasting and in policy, business, and management decisions. The scientific documentation underlying the Earth Science Research Program provides a comprehensive background for the science solicited here. The Research Program addresses NASA's Strategic Goal 2.1 to "Advance Earth System Science to meet the challenges of climate and environmental change." (See the most recent NASA Strategic Plan: [https://smd-prod.s3.amazonaws.com/science-red/s3fspublic/atoms/files/FY2014\\_NASA\\_StrategicPlan\\_508c.pdf](https://smd-prod.s3.amazonaws.com/science-red/s3fspublic/atoms/files/FY2014_NASA_StrategicPlan_508c.pdf)). In particular, it addresses the more specific Science Goals (see the Science Plan for NASA's Science Mission Directorate (hereafter the NASA Science Plan), also available at [https://smdprod.s3.amazonaws.com/science-red/s3fspublic/atoms/files/2014\\_Science\\_Plan\\_PDF\\_Update\\_508\\_TAGGED\\_1.pdf](https://smdprod.s3.amazonaws.com/science-red/s3fspublic/atoms/files/2014_Science_Plan_PDF_Update_508_TAGGED_1.pdf))

**Awards:** Various

**Notice of Intent:** July 09, 2018

**Proposal Deadline:** September 04, 2018

**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](mailto:Richard.S.Eckman@nasa.gov)

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**Grant Program: Space Technology Research Institutes (STRI) Appendix**

**Agency: NASA 80HQTR18NOA01-18STRI-B3**

**Website:** <http://www.spaceref.com/news/viewstr.html?pid=51488>

**Brief Description:** The National Aeronautics and Space Administration (NASA) Headquarters has released a solicitation, titled Space Technology Research Institutes (STRI), as an appendix to the Space Technology Mission Directorate (STMD) umbrella NASA Research Announcement (NRA) title Space Technology Research, Development, Demonstration, and Infusion 2018 (SpaceTech-REDDI-2018), on My 31, 2018. The solicitation is available by opening the NSPIRES homepage at <http://nspires.nasaprs.com/> b selecting "Solicitations," then selecting "Open Solicitations," and, finally, selecting "Space Technology Research Institutes (STRI)."

The Space Technology Mission Directorate is seeking to invest, via research institutes, in university-led, multi-disciplinary basic research and technology development within particular area of strong interest to NASA and the wider aerospace community. The institutes construct allows for the participation of experts from a wide range of fields and organizations in a single distributed research structure, enabling greater progress and benefit for all involved. The institute approach facilitates a more focused and coordinated set of research and development efforts than typically arise from separate solicitations and individual research grants. In addition, because the institute maintains this focus for several years, more effective and substantial research progress is envisioned for the featured high priority research areas. An awarded institute will typically be 5 years in duration and up to \$15M total over the 5-year period. Only accredited U.S. universities are eligible to submit proposals; teaming with other universities is required, and teaming with non-profit entities and industry is permitted. See Appendix section 3.0 for full list of eligibility requirements. The award instrument will be a grant.

The Appendix exclusively seeks proposals that are responsive to the following topics:

- Revolutionary Propulsion for Rapid Deep Space Transit
- Smart Deep Space Habitats (SmartHabs)

The financial and programmatic support for STRI comes from the Space Technology Research Grants Program within the Space Technology Mission Directorate. Awards are planned to start in Spring 2019. Proposals are being solicited via a two-step process where preliminary proposal are mandatory and only those invited may submit a full proposal. NASA plans to make approximately 2 awards as a result of this STRI solicitation, subject to the availability of funds and receipt of meritorious proposals. The actual number of awards will depend on the quality of proposal received; NASA reserves the right to make no awards under this solicitation.

All preliminary proposals must be submitted electronically through NSPIRES or through Grants.gov ([www.grants.gov](http://www.grants.gov)) by an authorized organizational representative. Notices of Intent (strongly encouraged) are due by July 2, 2018, with preliminary proposals due on or before July 20, 2018, 5 pm Eastern with invited full proposals targeted for November 5, 2018 Eastern. Detailed submission instructions and due dates are provided in the solicitation. Potential proposers and their proposing organizations are urged to familiarize themselves with the submission systems(s), ensure they are registered in NSPIRES, and submit the required proposal material well in advance of the deadline.

**Awards:** An awarded institute will typically be 5 years in duration and up to \$15M total over the 5-year period.

**Notice of Intent:** July 1, 2018

**Preliminary Proposal Deadline:** July 30, 2018

**Contact:** Claudia M. Meyer NASA Space Technology Research Grants Program Exec Phone: 202-358-4458

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**Grant Program: ROSES 2018: Heliophysics Space Weather Operations to Research**

**Agency:** NASA NNH18ZDA001N-HSWO2R

**Website:** <https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BE17AD920-C9F2-600D-5913-6951AB56F31F%7D&path=open&method=init>

**Brief Description:** NASA's heliophysics strategic objective is to understand the Sun and its interactions with the Earth and the Solar System, including space weather. In this framework, the Heliophysics Research Program is guided by goals defined in the NASA 2014 Science Plan (available at <https://science.nasa.gov/about-us/science-strategy>) and the 2013 National Research Council Decadal Strategy for Solar and Space Physics report, Solar and Space Physics: A Science for a Technological Society ([www.nap.edu/catalog.php?record\\_id=13060](http://www.nap.edu/catalog.php?record_id=13060)) and its purpose is to enable achieving these goals, which are: 1. Determine the origins of the Sun's activity and predict the variations in the space environment; 2. Determine the dynamics and coupling of Earth's magnetosphere, ionosphere, and atmosphere and their response to solar and terrestrial inputs; 3. Determine the interaction of the Sun with the Solar System and the interstellar medium; 4. Discover and characterize fundamental processes that occur both within the heliosphere and throughout the Universe. The Heliophysics Research Program seeks to understand phenomena, on a broad range of spatial and temporal scales, the fundamental processes that drive them, how these processes combine to create space weather events, and to enable a capability for predicting future space weather events. In concert with the other NASA science divisions (Planetary Science, Astrophysics, and Earth Science), the program shares responsibility for learning about the Earth, our solar system, the universe, and their interrelationships.

**Awards:** Standard Grants

**Proposal Deadline:** August 03, 2018

**Contact:** Terrance Onsager

Heliophysics Division

Science Mission Directorate

NASA Headquarters

Washington, DC 20546-0001

Telephone: (202) 358-1615

Email: [terrance.g.onsager@nasa.gov](mailto:terrance.g.onsager@nasa.gov)

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**National Endowment of Humanities**

**Grant Program: Infrastructure and Capacity Building Challenge Grants**

**Agency:** National Endowment of Humanities

**Website:** <https://www.neh.gov/grants/preservation/infrastructure-and-capacity-building-challenge-grants>

**Brief Description:** The mission of this Challenge Grants program is to strengthen the institutional base of the humanities by enabling infrastructure development and capacity building. Awards aim to help institutions secure long-term support for their core activities and expand efforts to preserve and create access to outstanding humanities materials. Applications are welcome from colleges and universities, museums, public libraries, research institutions, historical societies and historic sites, scholarly associations, state humanities councils, and other public and nonprofit humanities entities. Programs that

involve collaboration among multiple institutions are eligible as well, but one institution must serve as the lead agent and formal applicant of record.

Through these awards organizations can increase their humanities capacity with funds invested in a restricted, short-term endowment or other investment fund (or spend-down funds) that generate expendable earnings to support and enhance ongoing program activities. Eligible activities include the documentation of cultural heritage materials that are lost or imperiled; the preservation and conservation of humanities materials; and the sustaining of digital scholarly infrastructure.

Challenge grants may also support the purchase of equipment and software; the design, purchase, construction, restoration, or renovation of facilities needed for humanities activities; and collections sharing. Such expenditures bring long-term benefits to the institution and to the humanities more broadly.

**Award:** Up to \$750,000

**Proposal Deadline:** August 09, 2018

**Contact:** Contact NEH's Division of Preservation and Access at 202-606-8309 or [challenge@neh.gov](mailto:challenge@neh.gov).

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### **Simons Foundation**

**Grant Program: Simons Investigator program in the Mathematical Modeling of Living Systems (MMLS)**

**Agency: Simons Foundation**

**Website:** <https://www.simonsfoundation.org/mathematics-physical-sciences/simons-investigators/simons-investigator-program-nominations/>

**Brief Description:** The Simons Foundation invites nominations for Simons Investigators in the Mathematical Modeling of Living Systems (MMLS), a joint program of the Mathematics and Physical Sciences and Life Sciences divisions of the Simons Foundation. Investigators in MMLS are outstanding scientists, often with mathematics or theoretical physics backgrounds, now engaged in research based on mathematical modeling in the life sciences.

New approaches in mathematically based modeling are making increasingly important contributions to the life sciences. The MMLS program aims to support theoretical approaches making important contributions to the life sciences and, thus, to foster a scientific culture of theory-experiment collaborations similar to that prevailing in physics. To encourage researchers to pursue this endeavor, the MMLS program will provide a long-term, stable base of support, enabling a focus on model based approaches to important issues in the life sciences. A broad spectrum of research areas within the life sciences will be considered, ranging from cellular-level issues of organization, regulation, signaling and morphogenic dynamics to the properties of organisms and ecology, as well as neuroscience and evolution; however, preference will be given to areas in which modeling approaches are less established and, for this reason, bioinformatics- and genomics-related proposals fall outside the scope of the program. In all cases, preference will be given to work developing deep theoretical ideas relevant to experiments, suggesting new questions and new classes of experiments, introducing important, new concepts, and explaining data.

Theory must connect with experiment, and candidates should articulate their own views about the nature of this connection, rather than accepting conventional wisdom; theory is more than data analysis. The program explicitly does not support translational or specifically human disease-related research.

**Eligibility:** To be eligible to be nominated for an Investigator in MMLS award, a scientist must be engaged in research related to the MMLS program and must not previously have been a Simons Investigator. He/she must have a primary appointment as a faculty member (tenured or non-tenured) at an educational institution in the United States, Canada, the United Kingdom or Ireland, on a campus



within these countries, and the primary department affiliation must have a Ph.D. program. At the time of the appointment start date, an Investigator should be in the early stages of an academic career and must be within ten years of the start of his/her first faculty position.

**Award:** A Simons Investigator in MMLS is appointed for a period of five years for up to \$132,000 per year. Appointments will begin August 1, 2019. An Investigator will receive research support in the amount of \$100,000 per year. An additional \$10,000 per year will be provided to the Investigator's department. The Investigator's institution will receive an additional 20 percent per year in indirect costs.

**Proposal Deadline:** The deadline to submit nominations is October 31, 2018, at 11:59:59 p.m. EST.

**University Nomination Process and Contact:** If interested, please send an email to Eric Blitz ([eric.blitz@njit.edu](mailto:eric.blitz@njit.edu)) and Atam Dhawan ([dhawan@njit.edu](mailto:dhawan@njit.edu)) and copy to college dean to discuss the nomination before August 1, 2018.

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### **Arnold and Mabel Beckman Foundation**

**Grant Program: Beckman Young Investigators Program**

**Agency: Arnold and Mabel Beckman Foundation**

**Website:** <http://www.beckman-foundation.org/programs/beckman-young-investigators-program-information>

**Brief Description:** The Beckman Young Investigator (BYI) Program provides research support to the most promising young faculty members in the early stages of their academic careers in the chemical and life sciences, particularly to foster the invention of methods, instruments and materials that will open up new avenues of research in science.

Projects proposed for the BYI program should be truly innovative, high-risk, and show promise for contributing to significant advances in chemistry and the life sciences. They should represent a departure from current research directions rather than an extension or expansion of existing programs. Proposed research that cuts across traditional boundaries of scientific disciplines is encouraged. Proposals that open new avenues of research in chemistry and life sciences by fostering the invention of methods, instruments and materials will be given additional consideration.

The BYI program funds promising young scientists early in their careers who have not yet received a major award from another organization. Proposals that already have substantial funding will not be considered for the BYI award (see eligibility for more information).

**Eligibility:** The BYI program is open to those within the first three years of a tenure-track position, or an equivalent independent research appointment, at a United States academic or non-profit institution that conducts research in chemical and life sciences. Tenure Track Start Date for the 2019 program must be after: 8/15/2015. Investigators can have no more than \$225,000 in direct, annualized external funding grants during any BYI Program Year (Aug-July) at time of application.

**Awards:** Projects are normally funded for a period of four years. Grants are in the range of \$600,000 over the term of the project, contingent upon demonstrated progress after the second year of the award.

**Proposal Deadline:** Letter of Intent is due on August 6, 2018. The LOI needs two institutional endorsements.

**Contact:** Please let Eric Blitz ([eric.blitz@njit.edu](mailto:eric.blitz@njit.edu)) and Atam Dhawan ([dhawan@njit.edu](mailto:dhawan@njit.edu)) know if you are interested in applying.

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## Streamlyne Question of the Week

Question: How can I add another investigator or my research ambassador to my proposal in order to help on budget preparation and edit proposal details?

Answer: Select the “Permissions” link from the left hand side of the main proposal screen in any proposal development document. From the Permissions screen you will be able to search for the person you wish to add and grant them a specific level of permission (aggregator, budget creator, viewer). After you select the appropriate person, click “Add” and they will be added to your proposal.

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

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## Streamlyne Information

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

**Streamlyne\_NewUserManual\_CommonElements.docx** : This manual provides a reference to all the common elements of Streamlyne Research. This user manual is a good document to review each module’s functionality.

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

## **How-to-do-Videos**

New “How to Do” videos have been posted on the research website <http://www5.njit.edu/research/streamlyne/>. These videos show step-by-step process on the following tasks:

- ◆ [How to Begin Proposal Submission in Streamlyne](#)
- ◆ [How to Input Proposal Budget](#)
- ◆ [How to Process Approvals](#)
- ◆ [How to Upload Proposal Attachments](#)
- ◆ [How to Search for a Proposal that is in Route](#)
- ◆ [Difference Between "Prime Sponsor Code" and "Sponsor Code"](#)
- ◆ [How to Select an RR Budget, RR Sub-award or Modular Budget](#)
- ◆ [How to Add a Student/Summary](#)
- ◆ [Participant Support Categories](#)
- ◆ [Supplies Specific Category Materials](#)
- ◆ [How to Create a Modular Budget](#)

Faculty and staff having any questions on proposal submission, may contact their college representatives, and also follow up with **Justin Samolewicz, Associate Director (Pre Award)** 973-596-3145; [justin.m.samolewicz@njit.edu](mailto:justin.m.samolewicz@njit.edu); and **Eric Hetherington, Director, Sponsored Research Programs Administration** 973-596-3631; [eric.d.hetherington@njit.edu](mailto:eric.d.hetherington@njit.edu). The college representatives to help PIs on proposal submissions are

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

**Cristo Leon**, CSLA Director of Research; (973) 596-6426; [cristo.e.yanezleon@njit.edu](mailto:cristo.e.yanezleon@njit.edu)  
**Sean Andrews**, YWCC Director of Research; (973) 596-5352; [sean.t.andrews@njit.edu](mailto:sean.t.andrews@njit.edu)  
**Iris Pantoja**, NCE, CoAD and MTSM Project Manager; 973-596-4483; [irp3@njit.edu](mailto:irp3@njit.edu)

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## **Need Information about Funding?**

### **Finding Research Opportunities and Collaborations (FROC)** **Walk-In Open-Hour Discussion with SVPR Over Tea**

Every Thursday: 3.00 PM-4.00 PM; 340 Fenster Hall

The Office of Research has started a new service to help all faculty and staff explore collaborative research opportunities and currently active RFPs (Request for Proposals) for potential proposal development and submission. Faculty and research staff members are welcome to meet with Senior Vice Provost for Research Atam Dhawan at the open-hour every Thursday from 3.00 PM to 4.00 PM to discuss research opportunities related issues including the following but not limited to:

- Research opportunities and potential collaborations
- Currently active RFPs and developing collaborative teams for proposal submission
- Proposal review criterion for specific RFP/program/agency
- Proposal concept and draft review in the context of review criterion
- Future plans for proposal development and submission
- Invention disclosures, patent applications and processing of intellectual property
- External faculty research awards including fellowships

Though *walk-ins* are welcome during the open-hour, faculty members are encouraged to email SVPR Atam Dhawan ([dhawan@njit.edu](mailto:dhawan@njit.edu)) about specific questions on research opportunities and needs to be discussed in advance for more detailed discussion.

The open-hour session with individuals or small groups of faculty and research staff members is expected to focus on finding research opportunities, developing collaborative teams, exploring the review criterion and reviewing program requirements. Specific proposal submission and grant management issues can be discussed with Office of Research staff separately.

Enjoy coffee/tea and cookies with SVPR over the discussion.

For any questions and additional information, please send an email to SVPR at [dhawan@njit.edu](mailto:dhawan@njit.edu).

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