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: Division of Environmental Biology (DEB) Core Programs; Division of Integrative Organismal Systems Core Programs; Division of Molecular and Cellular Biosciences: Investigator-initiated research projects (MCB); SBE Postdoctoral Research Fellowships (SPRF), Improving Undergraduate STEM Education: Pathways into Geoscience (IUSE: GEOPATHS), Opportunities for Promoting Understanding through Synthesis (OPUS); Ecology and Evolution of Infectious Diseases (EEID); Enabling Quantum Leap: Convergent Accelerated Discovery Foundries for Quantum Materials Science, Engineering and Information (Q-AMASE-i); Advanced Technologies and Instrumentation (ATI)

NIH: NLM Research Grants in Biomedical Informatics and Data Science (R01); BRAIN Initiative: Development of Novel Tools to Probe Cell-Specific and Circuit-Specific Processes in Human and Non-Human Primate Brain (UG3/UH3); Regenerative Medicine Innovation Project (RMIP) Investigator-Initiated Studies (U01); Short-term Mentored Career Enhancement Awards in Mobile and Wireless Health Technology and Data Analytics: Cross-Training at the intersection of Behavioral and Social Sciences and STEM Disciplines (K18); NCI Outstanding Investigator Award (R35); Development of Cell and Tissue Platforms to Detect Adverse Biological Consequences of Somatic Cell Genome Editing (U01); Mentored Career Development Award to Promote Faculty Diversity in Biomedical Research (K01); NIDCD Hearing Healthcare for Adults: Improving Access and Affordability (R21/R33)

Department of Defense/US Army/DARPA/ONR: Complex Traumatic Brain Injury Rehabilitation Research Clinical Research Award; Young Faculty Award, DoD Accelerating Innovation in Military Medicine Research Award; BROAD AGENCY ANNOUNCEMENT (BAA) for Extramural Biomedical Research and Development; NRL Long Range Broad Agency Announcement (BAA) for Basic and Applied Research

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

**Institutional Review Board (IRB) Update**

**on the**

**Use of Human Subjects in Research**

Under a Federal wide Assurance with the United States Department of Health and Human Services, all research involving human subjects performed by NJIT faculty, staff, and students either on-campus or off-campus, including at other institutions, must be reviewed and approved prior to initiation by the NJIT Institutional Review Board (IRB). According to the United States Department of Health and Human Services:

- Research is defined as systematic investigation, including research development, testing and evaluation, designed to develop or contribute to new knowledge.

- Human Subjects are living individuals about whom an investigator conducting research obtains (1) data from an intervention or interaction with the individual, or (2) identifiable information.

**Continuing Review (“Renewal”)**

As mandated by federal law, researchers must secure the IRB approval for all human subjects related scientific studies. Research plans must be subject to continuing review (“renewal”) no less than once per year (“expiration date”). Researchers are responsible for applying for renewal status at least a week in advance of the last IRB meeting before the expiration date (published in the IRB website) so as to allow the IRB to review and approve the renewal before the expiration date. If a research plan’s approval expires before the IRB completes its review, the researcher must stop all research procedures. The IRB has no
legal authority to, and will not, retroactively approve any research plan. When stopping the research could place human subjects at risk, the researcher should contact the IRB immediately to obtain approval to continue treating subjects on that study.

Pending Status for Research Proposals

Funding agencies often require research plans to be submitted for IRB approval prior to the proposal submission date, and to state the “pending approval” in the proposal. In these cases, researchers must secure a “pending status” before the proposal submission. The IRB has no legal authority to, and will not, date a research plan submission prior to the actual submission date to the IRB.

Non-Research Activities Involving Human Subjects

Activities that involve human subjects, which are not research activities as defined by the Code of Federal Regulations are not subject to IRB scrutiny (the IRB has no jurisdiction over them). Therefore, they require no review by the IRB.

Note that this is different from an exemption, which, under certain circumstances, applies to research activities involving human subjects.

The definition of research given in the Code of Federal Regulations is "Research means a systematic investigation, including research development, testing and evaluation, designed to develop or contribute to generalizable knowledge. Activities which meet this definition constitute research for purposes of this policy, whether or not they are conducted or supported under a program which is considered research for other purposes."

Proposals involving an educational component often require the assessment of the proposed activities, and they do not meet the definition of research (in much the same way as the course evaluations are routinely carried out every semester are not considered research). If this is the case, the educational plan does not require IRB review. If, at any point in time, the PI decides to change the project description in this regard in any way that transforms the proposed activities into research, then the PI should contact the IRB and apply for IRB approval.

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: Gregory Fleishman (PI), Dale Gary (Co-PI), Gelu Nita (Co-PI)
Department: Center for Solar Terrestrial Research
Grant/Contract Project Title: 3D Magnetic and Thermal Structure of Active Regions of the Sun
Funding Agency: NSF
Duration: 09/01/18-08/31/21
PI: Sotirios Ziavras (PI) and Axel Turnquist (Co-PI)
Department: Mathematical Sciences
Grant/Contract Project Title: NSF Graduate Research Fellowship Program for Axel Turnquist
Funding Agency: NSF
Duration: 08/15/18-07/31/23

PI: Treena Arinzeh (PI)
Department: Biomedical Engineering
Grant/Contract Project Title: Evaluation of the Cytocompatibility of Integra Matrices
Funding Agency: Integra Lifesciences
Duration: 11/19/15-08/31/19

PI: Senjuti Basu Roy (PI)
Department: Computer Science
Grant/Contract Project Title: CHS: An Optimized Human-Machine Intelligence Framework for Single and Multi-Label Classification Tasks Through Active Learning
Funding Agency: NSF
Duration: 09/01/18-08/31/21

PI: Michael Lee (PI) and James Geller (Co-PI)
Department: Informatics
Grant/Contract Project Title: Increasing Urban Youth Participation in Computing through Mentorship and Coding Resources
Funding Agency: NSF
Duration: 03/01/19-02/28/21

PI: Nirwan Ansari (PI)
Department: Electrical and Computer Engineering
Grant/Contract Project Title: NeTS: Small: Free Space Optics as Backhaul and Energizer for Drone-Assisted Networking
Funding Agency: NSF
Duration: 10/01/18-09/30/21

PI: Lazar Spasovic (PI) and Joyoung Lee (Co-PI)
Department: ITSRC
Grant/Contract Project Title: Newark Downtown Circulation Improvement Study
Funding Agency: City of Newark
Duration: 07/01/18-06/30/19

PI: Qiang Tang (PI)
Department: Computer Science
Grant/Contract Project Title: SaTC: CORE: Medium: Collaborative: Theory and Practice of Cryptosystems Secure Against Subversion
Funding Agency: NSF
Duration: 10/01/18-09/30/21
In the News…

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

**HUGE SPENDING BILL HEADS TO HOUSE-SENATE CONFERENCE:** The Senate on Thursday overwhelmingly passed an $857 billion spending package that Republican leaders are counting on to convince President Donald Trump to back down from threats of a government shutdown in September. The bill funds the departments of Defense, Health and Human Services (including the National Institutes of Health) Labor, and Education. The Senate’s bill would deliver a $20.4 billion increase for the Pentagon, lifting its budget to a near-historic high. HHS would see a $2.3 billion boost, including a 5.4 percent increase for the National Institutes of Health. Education programs would get a $541 million boost, while the Labor Department’s budget would remain flat. Among provisions drawing praise on the Senate floor was $2 billion for Alzheimer’s research. The package realizes the goals of the bipartisan budget agreement reached in February by making significant new investments over fiscal year 2017 funding levels to improve the lives of the American people, including:

- $5 billion over fiscal year 2017 for the National Institutes of Health;
- $3.2 billion over fiscal year 2017 for Child Care Development Block Grants;
- $3 billion over fiscal year 2017 to combat the opioid crisis; and
- $2.3 billion over fiscal year 2017 to increase college affordability.


**DOE Graduate Research Awards:** The Department of Energy "provides supplemental awards to outstanding U.S. graduate students to pursue part of their graduate thesis research at a DOE laboratory/facility in areas that address scientific challenges central to the Office of Science mission. The research opportunity is expected to advance the graduate students' overall doctoral thesis while providing access to the expertise, resources, and capabilities available at the DOE laboratories/facilities." The program is now accepting applications. More information about the DOE Office of Science Graduate Student Research (SCGSR) Program is posted on the website https://science.energy.gov/wdts/scgsr/.

**NSF $25 Million Finding for Quantum Leap:** 25 MILLION-DOLLAR AWARDS are expected from the National Science Foundation in connection with its RAISE (Research Advanced by Interdisciplinary Science and Engineering) project to advance quantum research. NSF has sought interdisciplinary research projects drawing on physics, chemistry, mathematics, materials science, engineering, and computer/computational science that "focus on quantum functionality by assessing aspects relevant to both fundamental and application concepts, and must result in experimental demonstrations of transformative advances towards quantum systems and/or proof-of-concept validations." See background on Quantum Leap, one of NSF’s 10 Big Ideas, and the August 2 announcement: "Enabling Quantum Leap: Convergent Accelerated Discovery Foundries for Quantum Materials Science, Engineering, and Information (Q-AMASE-i)." The latter anticipates six-year awards totaling $20-25 million.

a question, a big idea, about the nature of things that often leads to a fundamental shift in thinking. The ability to pursue and investigate that question, and to innovate along the way, is what enables the discoveries that ultimately transform the world. This plan illustrates the opportunities ahead with examples from some of NSF's “10 Big Ideas” for future investment. These bold, long-term research questions consider critical societal challenges and important lines of scientific inquiry where NSF aims to catalyze new breakthroughs. Partnerships with other federal agencies, nonprofits, private-sector collaborators, industry partners and the public will help advance these research areas. This plan also underscores where greater investments are needed; for example, in research infrastructure and broadening participation in the science, technology, engineering and mathematics (STEM) workforce. As highlighted in the 2018 Science and Engineering Indicators report, the number of non-STEM jobs requiring STEM skills is now on par with the number of STEM jobs in the U.S. As societies around the world transition to more knowledge-based economies, NSF is committed to preparing a 21st century workforce and ensuring that talented individuals from all sectors of our society have access to STEM learning.". The ten big ideas for NSF investments are:

- **Harnessing the Data Revolution**
- **The Future of Work at the Human-Technology Frontier**
- **Navigating the New Arctic**
- **Windows on the Universe: The Era of Multi-Messenger Astrophysics**
- **The Quantum Leap: Leading the Next Quantum Revolution**
- **Understanding the Rules of Life: Predicting Phenotype**
- **Mid-scale Research Infrastructure**
- **NSF 2026: Seeding Innovation**
- **Growing Convergence Research at NSF**
- **NSF INCLUDES (Inclusion across the Nation of Communities of Learners of Underrepresented Discoverers in Engineering and Science): Enhancing STEM through Diversity and Inclusion**

**US Government White House Research Priorities:** If confirmed by the Senate, Droegemeier will start his job with the fiscal 2020 budget process already under way. This week, acting OSTP Director, Michael Kratsios and Office of Management and Budget Director Mick Mulvaney spelled out research priorities, including artificial intelligence, autonomous systems, quantum, hypersonics, a modernized nuclear deterrent, and "advanced microelectronics, computing, and cyber capabilities." R&D should also aim to improve resilience and protect the nation and critical infrastructure from natural hazards, physical threats, cyber attacks and threats from drones or biological agents, the memo says. The document calls for strong collaboration among academia, industry, and government, and "Innovative partnership models." The memo includes the following R&D priority areas:

- **Security of the American People** – Based on the National Security Strategy,[2] the President calls for “leadership in research, technology, invention, and innovation” and investment in R&D to maintain military superiority. Specifically, the memo directs prioritized investment in "AI, autonomous systems, hypersonics, a modernized nuclear deterrent, and advanced microelectronics, computing, and cyber capabilities.” Agencies are also directed to improve the security and resilience of U.S. critical infrastructure from “natural hazards, physical threats, cyber-attacks, and emerging threats from autonomous systems and biological

agents." This includes a range of activities from border security to better weather prediction.

- **American Leadership in Artificial Intelligence, Quantum Information Sciences, and Strategic Computing** – The memo states that these areas are vital to U.S. national security and economic competitiveness. AI research should include "machine learning, autonomous systems, and applications at the human-technology frontier." Activities in quantum information sciences (QIS) should aim to develop the next generation of QIS theory, devices, and applications. The memo directs agencies to prioritize investment in research and infrastructure to “maintain U.S. leadership in strategic computing, from edge devices to high-performance computing, that accelerates delivery of low power, high performance devices; supports a national high-performance computing ecosystem; and explores novel pathways to advance computing in a post-Moore's Law era.”

- **American Connectivity and Autonomy** – Agencies should support R&D “to manage spectrum, secure networks, and increase access to high-speed internet” to support the development and deployment of advanced communications networks, including 5G wireless networks. Additional prioritization is also given to autonomous driving systems and unmanned aircraft systems (UAS).

- **American Manufacturing** – The memo highlights the importance of manufacturing technologies for job creation and to strengthen the U.S. manufacturing industrial base, including the need for agencies to work in collaboration with industry where appropriate. Priority areas highlighted in the memo include: “smart and digital manufacturing, and advanced industrial robotics, especially systems enabled by the industrial internet of things (IoT), machine learning, and AI.” The memo also highlights advanced materials and associated processing technologies; bio-based manufacturing; and semiconductor design and fabrication.

- **American Space Exploration & Commercialization** – The memo states, “Research investments should be focused on ensuring American leadership in space for long-duration spaceflight, in-space manufacturing, in-situ resource utilization, long-term cryogenic fuel storage and management, and advanced space-related power and propulsion capabilities. Agencies should prioritize demonstrations and flight tests to ensure an industrial base for commercial activity in space and on celestial bodies.” Micro-gravity research to advance biopharmaceuticals and materials science is highlighted. Additionally, agencies should support R&D in advanced materials, additive manufacturing, optical communications, and machine learning.

- **American Energy Dominance** – The memo states, “Fueling America's greatness requires access to domestic sources of clean, affordable, and reliable energy.” Agencies are directed to invest in early-stage, innovative technologies, and to rely on the private sector to support later-stage research, development, and commercialization. This is consistent with the Trump Administration's previous attempts to cut funding for applied research programs at the Department of Energy.

- **American Medical Innovation** – Agencies are directed to focus on basic research and translation. Areas of focus include personalized medicine, disease prevention, addressing the opioid crisis, infectious disease, mental health, and other public health threats. The memo highlights the importance of R&D to support healthcare for veterans, aging adults, and those with disabilities, as well as the need for agencies to work together to manage healthcare data.
• **American Agriculture** - Agencies are directed to “prioritize R&D that enables advanced and precision agriculture and aquaculture technologies, including the use of embedded sensors, data analytics, and machine learning techniques.” Agencies are also directed to “prioritize investments in pre-competitive research regarding the safety of microorganisms, plants, and animals developed using gene editing, in order to greater leverage biotechnology products for agriculture.”

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**Webinar and Events**

**Event:** Crossing the Global Quality Chasm: Improving Health Care Worldwide  
**Sponsor:** National Academies  
**When:** August 28, 2018; 9.00 AM – 10.00 AM  
**Website:** [National Academies Registration Website](#)  
**Brief Description:** With the expiration of the Millennium Development Goals in 2015, the global community witnessed grand strides in the health and well-being of people worldwide. Building of this momentum is a global commitment to Universal Health Coverage (UHC). Though countries are increasing access to health care to meet this commitment, there has not been a similar emphasis on improving the quality of care. As of yet, the world's poorest and most marginalized do not have access to high quality care. Unless there is a deliberate effort to improve the quality of health services globally, UHC will prove to be an empty vessel.  
**To register to the webinar:** Please register at the above website.

**Event:** Broadband ADC with X-point switch — Un-paralleled Flexibility in Multi-channel RF applications  
**Sponsor:** IEEE  
**When:** August 27, 2018; 10.00 AM – 11.00 AM  
**Website:** [https://event.on24.com/eventRegistration/EventLobbyServlet?target=reg20.jsp&partnerref=email1&et_rid=2035965180&et_mid=83709397&eventid=1813205&sessionid=1&key=57823A2AA43189211E2F5CDF64DC0023&regTag=&sourcepage=register](https://event.on24.com/eventRegistration/EventLobbyServlet?target=reg20.jsp&partnerref=email1&et_rid=2035965180&et_mid=83709397&eventid=1813205&sessionid=1&key=57823A2AA43189211E2F5CDF64DC0023&regTag=&sourcepage=register)  
**Brief Description:** The AQ600 is a high speed, broadband analog to digital convertor comprised of four 12-bit, 1.5 Gsps cores linked to a flexible wideband cross point switch (CPS). The device offers an input signal bandwidth up to 8 GHz (extended bandwidth mode) enabling direct sampling in high order Nyquist zones. The CPS allows the ADC cores to sample in either synchronous (in phase) or time interleaving modes. A high-performance clock and synchronization system manages fine timing both within the device and across multi-devices. Thus, designers gain a free-hand in operating the part as a 4-channel ADC at 1.5 Gsps, a 2-channel device sampling at Output data is formatted for transmission using the ESIstream, low overhead, low latency, open source serial digital interface operating at up to 12 Gbps.  
**To register to the webinar:** Please register at the above URL

**Event:** Export Controls: When are Universities and Research Institutions Subject to the Export Administration Regulations?  
**Sponsor:** US Commercial Service Global Education Team  
**When:** August 28, 2018; 1.00 PM – 2.00 PM; Fee: $25  
**Brief Description:** When developing international partnerships or exchanges, or recruiting students and researchers, universities and research institutions should be aware of the Export Administration Regulations (EAR). Although information and software that is published, or that is released by instruction in a catalog course or associated teaching laboratory of an academic institution, is not subject to the EAR, other technology may require a license for release.

- Exactly how might these regulations impact your educational institution’s activities?
- How do you create a plan in order to become compliant with these regulations?

A representative from the Bureau of Industry and Security, U.S. Dept. of Commerce will explain concepts such as deemed export licenses and technology licenses, and will identify areas where an export license may not be required. Please share this webinar information with your research divisions.

To participate in the webinar, please register at: [https://emenuapps.ita.doc.gov/ePublic/event/editWebReg.do?SmartCode=8QFS](https://emenuapps.ita.doc.gov/ePublic/event/editWebReg.do?SmartCode=8QFS)

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**Event:** Math Frontiers Monthly Webinar Series  
**Sponsor:** National Academies  
**When:** September 11, 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.*

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).

**September 11, 2018: Mathematical Analysis**  
Professor [Dimitri Shlyakhtenko](http://sites.nationalacademies.org/deps/bmsa/deps_183972) 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](http://sites.nationalacademies.org/deps/bmsa/deps_183972) and [Folashade B. Agusto](http://sites.nationalacademies.org/deps/bmsa/deps_183972) 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:** Division of Environmental Biology (DEB) Core Programs  
**Agency:** National Science Foundation NSF 18-587  
Brief Description: The Division of Environmental Biology (DEB) Core Track supports research and training on evolutionary and ecological processes acting at the level of populations, species, communities, and ecosystems. DEB encourages research that elucidates fundamental principles that identify and explain the unity and diversity of life and its interactions with the environment over space and time. Research may incorporate field, laboratory, or collection-based approaches; observational or manipulative studies; synthesis activities; phylogenetic discovery projects; or theoretical approaches involving analytical, statistical, or computational modeling. Proposals should be submitted to the core clusters (Ecosystem Sciences, Evolutionary Processes, Population and Community Ecology, and Systematics and Biodiversity Sciences). DEB also encourages interdisciplinary proposals that cross conceptual boundaries and integrate over levels of biological organization or across multiple spatial and temporal scales. Research addressing ecology and ecosystem science in the marine biome should be directed to the Biological Oceanography Program in the Division of Ocean Sciences; research addressing evolution and systematics in the marine biome should be directed to the Evolutionary Processes or Systematics and Biodiversity Science programs in DEB.

All DEB programs also encourage proposals that leverage NSF-supported data networks, databases, centers, and other forms of scientific infrastructure, including but not limited to the National Ecological Observatory Network (NEON), Environmental Data Initiative (EDI), and Integrated Digitized Biocollections (iDigBio).

Rules of Life Track proposals that integrate across the scales in biological sciences are solicited to support research that spans from the population, species, community and ecosystem scales normally funded by DEB, to organismal, cellular and molecular scales typically funded by other divisions in the Biological Sciences. This track provides new opportunities to advance our understanding of the Rules of Life by new mechanisms for review and funding of proposals that would not ordinarily fit well within one division in the Biological Sciences Directorate.

Awards: Standard Grant Anticipated Funding Amount: $100,000,000
Letter of Intent: Not Required
Full Proposal Submission Deadline: Proposals Accepted Anytime
Contacts: Division of Environmental Biology, Phone: (703) 292-8480, email: debquestions@nsf.gov

Grant Program: Division of Integrative Organismal Systems Core Programs
Agency: National Science Foundation NSF 18-586

Brief Description: The Division of Integrative Organismal Systems (IOS) supports research aimed at understanding why organisms are structured the way they are and function as they do. Proposals are welcomed in all of the core scientific program areas supported by the Division of Integrative Organismal Systems (IOS). Areas of inquiry include, but are not limited to, developmental biology and the evolution of developmental processes, nervous system development, structure, modification, function, and evolution; biomechanics and functional morphology, physiological processes, symbioses and microbial interactions, interactions of organisms with biotic and abiotic environments, plant and animal genomics, and animal behavior. Proposals should focus on organisms as a fundamental unit of biological organization. Principal Investigators (PIs) are encouraged to apply systems approaches that will lead to conceptual and theoretical insights and predictions about emergent organismal properties.

Awards: Standard Grant Anticipated Funding Amount: $60,000,000
Letter of Intent: Not Required
Full Proposal Submission Deadline: Proposals Accepted Anytime
Contacts: Behavioral Systems Program Directors, telephone: (703) 292-8423, email: IOSBSC@nsf.gov
  • Developmental Systems Program Directors, telephone: (703) 292-8417, email: IOSDSC@nsf.gov
Grant Program: Division of Molecular and Cellular Biosciences: Investigator-initiated research projects (MCB)
Agency: National Science Foundation NSF 18-585

Brief Description: The Division of Molecular and Cellular Biosciences (MCB) supports quantitative, mechanistic, predictive, and theory-driven fundamental research designed to promote understanding of complex living systems at the molecular, subcellular, and cellular levels. While recognizing the need for thorough and accurate descriptions of biological complexes and pathways, the priority of the Division is to support work that advances the field by capturing the predictive power of mechanistic, quantitative, and evolutionary approaches.

Two funding tracks will be available.

- Core Program Track proposals are solicited to support research relevant to the four MCB core clusters:
  - Cellular Dynamics and Function
  - Genetic Mechanisms
  - Molecular Biophysics
  - Systems and Synthetic Biology

- Rules of Life Track proposals that integrate across the scales in biological sciences are solicited to support research that spans from the molecular and cellular levels normally funded by MCB to organismal and ecosystem scales typically funded by other divisions in the Biological Sciences. This track provides new opportunities to advance our understanding of the Rules of Life by new mechanisms for review and funding of proposals that would not ordinarily fit well within one division in the Biological Sciences Directorate.

MCB gives high priority to research projects that use theory, methods, and technologies from life and physical sciences, mathematics, computational sciences, and engineering to address major biological questions that elucidate the rules governing subcellular and cellular processes. Research supported by MCB uses a range of experimental and computational approaches—including in vivo, in vitro and in silico strategies—and a broad spectrum of model and non-model organisms, including microbes and plants. Typical research supported by MCB integrates theory and experimentation. Projects are particularly welcome that address the emerging areas of: multi-scale integration; transformative methods and resources (when driven by compelling biological questions); molecular and cellular evolution; the synthesis of life-like systems; and the quantitative prediction of the phenome from genomic information.

Highest funding priority is given to applications that have outstanding intellectual merit and strong broader impacts, while proposals with weaknesses in either category (or those that are perceived as likely to have an incremental impact) will not be competitive. Proposals that are motivated by relevance to human health and disease treatment are not appropriate for the Division and will be returned without review.

Awards: Standard Grant Anticipated Funding Amount: $90,000,000
Letter of Intent: Not Required
Full Proposal Submission Deadline: Proposals Accepted Anytime
Contacts: Charles Cunningham, Cellular Dynamics and Function, telephone: (703) 292-8440, email: mcb-cdf@nsf.gov
  - Arcady Mushegian, Genetic Mechanisms, telephone: (703) 292-8440, email: mcb-gm@nsf.gov
Grant Program: SBE Postdoctoral Research Fellowships (SPRF)
Agency: National Science Foundation NSF 18-584

Brief Description: The Directorate for Social, Behavioral and Economic Sciences (SBE) offers Postdoctoral Research Fellowships to encourage independence early in the Fellow's career through supporting his or her research and training goals. The research and training plan of each Fellowship must address important scientific questions within the scope of the SBE Directorate and the specific guidelines in this solicitation. The SPRF program offers two tracks: (I) Fundamental Research in the SBE Sciences (SPRF-FR) and (II) Broadening Participation in the SBE Sciences (SPRF-BP). See the full text of the solicitation for a detailed description of these tracks.

Awards: Standard Grant Anticipated Funding Amount: $3,000,000
Letter of Intent: Not Required

Full Proposal Submission Deadline: November 20, 2018
Contacts: Josie S. Welkom-Acting Program Officer, telephone: (703) 292-7376, email: jwelkom@nsf.gov
• Lisa M. Jackson-Program Specialist, telephone: (703) 292-7882, email: lmjackson@nsf.gov

Grant Program: Improving Undergraduate STEM Education: Pathways into Geoscience (IUSE: GEOPATHS)
Agency: National Science Foundation NSF 18-583

Brief Description: A well-prepared, innovative science, technology, engineering and mathematics (STEM) workforce is crucial to the Nation's health and economy. Indeed, recent policy actions and reports have drawn attention to the opportunities and challenges inherent in increasing the number of highly qualified STEM graduates, including STEM teachers. Priorities include educating students to be leaders and innovators in emerging and rapidly changing STEM fields as well as educating a scientifically literate populace. Both of these priorities depend on the nature and quality of the undergraduate education experience. In addressing these STEM challenges and priorities, the National Science Foundation invests in evidence-based and evidence-generating approaches to understanding STEM learning; to designing, testing, and studying instruction and curricular change; to wide dissemination and implementation of best practices; and to broadening participation of individuals and institutions in STEM fields. The goals of these investments include: increasing the number and diversity of STEM students; preparing students well to participate in science for tomorrow and improving students' STEM learning outcomes.

NSF’s Improving Undergraduate STEM Education (IUSE) initiative, launched in Fiscal Year 2014, supports a coherent set of investments to address immediate challenges and opportunities that are facing undergraduate STEM education, as well as those that anticipate new structures (e.g. organizational changes, new methods for certification or credentialing, course re-conception, cyberlearning, etc.) and new functions of the undergraduate learning and teaching enterprise. The NSF-wide IUSE initiative acknowledges the variety of discipline-specific challenges and opportunities facing STEM faculty as they strive to incorporate results from educational research into classroom practice and work with education research colleagues and social science learning scholars to advance our understanding of effective teaching and learning.
Awards: Standard Grant  Anticipated Funding Amount: $6,000,000
Letter of Intent: Required by September 21, 2018
Limit on Number of Proposals per Organization: An organization may serve as sole submitting institution or as lead institution of a collaborative project on only one submission per competition, regardless of track, but may serve as the non-lead institution of a collaborative project more than once per competition. Please contact SVPR Atam Dhawan if you are interested in submission.
Full Proposal Submission Deadline: November 19, 2018
Contacts: M. Brandon Jones, telephone: (703) 292-4713, email: mbjones@nsf.gov
  • Dena M. Smith, telephone: (703) 292-7431, email: dmsmith@nsf.gov
  • Luciana Astiz, telephone: (703) 292-4705, email: lastiz@nsf.gov

Grant Program: Opportunities for Promoting Understanding through Synthesis (OPUS)
Agency: National Science Foundation
Brief Description: The OPUS program seeks to provide opportunities for mid- to later-career investigators to develop new understanding of science in the fields supported by the Division of Environmental Biology (DEB) through two tracks of synthesis activities.
OPUS: Mid-Career Synthesis. This track provides an opportunity for a mid-career researcher, defined as a candidate at the associate professor rank (or equivalent) to enable a new synthesis of their ongoing research. Synthesis is achieved by developing new research capabilities through collaboration with a mentor to enable new understanding of their research system and questions of interest. This track aims to provide mid-career scientists with new capabilities to enhance their productivity, improve their retention as scientists, and ensure a diverse scientific workforce that remains engaged in active research (including more women and minorities at high academic ranks).
OPUS: Core Research Synthesis. This track provides an opportunity for an individual or a group of investigators to revisit and synthesize a significant body of their prior research in a way that will enable new understanding of their research system and questions of interest. This track would also be appropriate early enough in a career to produce unique, integrated insight useful both to the scientific community and to the development of the investigator's future career.
All four clusters within the Division of Environmental Biology (Ecosystem Science, Evolutionary Processes, Population and Community Ecology, and Systematics and Biodiversity Science) encourage the submission of these proposals enabling researchers to expand understanding and develop new insights in their research.
Awards: Standard Grant  Anticipated Funding Amount: $3,000,000
Letter of Intent: Not Required
Full Proposal Submission Deadline: November 19, 2018
Contacts: George W. Gilchrist, telephone: (703) 292-7138, email: ggilchri@nsf.gov
  • Leslie J. Rissler, telephone: (703) 292-4628, email: lriessler@nsf.gov
  • Kathryn Cottingham, telephone: (703) 292-2994, email: kcotting@nsf.gov

Grant Program: Ecology and Evolution of Infectious Diseases (EEID)
Agency: National Science Foundation
Brief Description: The multi-agency Ecology and Evolution of Infectious Diseases program supports research on the ecological, evolutionary, and social principles and processes that influence the transmission dynamics of infectious diseases. The central theme of submitted projects must be quantitative or computational understanding of pathogen transmission dynamics. The intent is discovery
of principles of infectious disease transmission and testing mathematical or computational models that elucidate infectious disease systems. Projects should be broad, interdisciplinary efforts that go beyond the scope of typical studies. They should focus on the determinants and interactions of transmission among humans, non-human animals, and/or plants. This includes, for example, the spread of pathogens; the influence of environmental factors such as climate; the population dynamics and genetics of reservoir species or hosts; the feedback between ecological transmission and evolutionary dynamics; and the cultural, social, behavioral, and economic dimensions of pathogen transmission. Research may be on zoonotic, environmentally-borne, vector-borne, or enteric pathogens of either terrestrial or freshwater systems and organisms, including diseases of animals and plants, at any scale from specific pathogens to inclusive environmental systems. Proposals for research on disease systems of public health concern to developing countries are strongly encouraged, as are disease systems of concern in agricultural systems. Investigators are encouraged to develop the appropriate multidisciplinary team, including for example, modelers, ecologists, bioinformaticians, genomics researchers, social scientists, economists, epidemiologists, evolutionary biologists, entomologists, parasitologists, microbiologists, bacteriologists, virologists, pathologists or veterinarians, with the goal of integrating knowledge across disciplines to enhance our ability to predict and control infectious diseases.

**Awards:** Standard Grant  
**Anticipated Funding Amount:** $20,000,000  
**Letter of Intent:** Not Required  
**Full Proposal Submission Deadline:** November 21, 2018  
**Contacts:**  
- Katharina Dittmar, Program Director, DEB/NSF, telephone: (703) 292-7799, email: kdittmar@nsf.gov  
- Christine Jessup, Program Director, NIH/FIC, telephone: (301) 496-1653, fax: (301) 402-0779, email: christine.jessup@nih.gov  
- Peter Johnson, National Program Leader, USDA/NIFA, telephone: (202) 401-1896, email: pjohnson@nifa.usda.gov

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**Grant Program:** Enabling Quantum Leap: Convergent Accelerated Discovery Foundries for Quantum Materials Science, Engineering and Information (Q-AMASE-i)  
**Agency:** National Science Foundation NSF 18-578  
**Brief Description:** The Division of Materials Research (DMR), the Division of Mathematical Sciences (DMS), the Division of Electrical, Communications and Cyber Systems (ECCS), and the Office of Advanced Cyberinfrastructure (OAC) seek to rapidly accelerate quantum materials design, synthesis, characterization, and translation of fundamental materials engineering and information research for quantum devices, systems, and networks. The new program of Enabling Quantum Leap: Convergent Accelerated Discovery Foundries for Quantum Materials Science, Engineering, and Information (Q-AMASE-i) aims to support these goals by establishing Foundries with mid-scale infrastructure for rapid prototyping and development of quantum materials and devices. The new materials, devices, tools and methods developed by Q-AMASE-i will be shared with the science and engineering communities through a Foundry-operated network. Technology transfer of Foundry activities will be enabled by close cooperation with industrial partners.  
Six-year awards totaling $20,000,000 to $25,000,000 for the award period are anticipated. Q-AMASE-i Foundries will be awarded as cooperative agreements with an initial commitment of six years, with the possibility of one six-year renewal, subsequent to a rigorous and favorable review by NSF. The annual performance review includes NSF's evaluation of the annual report after the first year, an annual site visit after the second and fourth year of Foundry activities, and a reverse or program management site visit after the third and fifth year. Funding after the second year will depend on the quality of progress and performance documented during the site visits.
Awards: Standard Grant  
Anticipated Funding Amount: $25,000,000

Letter of Intent: September 17, 2018

Limit on Number of Proposals per Organization: 1  
One (1) per organization as lead institution. Potential PIs are advised to contact their Sponsored Projects Office regarding processes used to select proposals for submission. In case of multiple submissions from the same institution, only the first submission will be considered, and all subsequent submissions will be returned without review.

Internal Competition and Review: Faculty planning to submit a proposal should submit a summary of the proposal with budget and NSF style Biographical sketch to Senior Vice Provost for Research Atam Dhawan at dhawan@njit.edu with cc to respective college dean by September 1, 2018.

Full Proposal Submission Deadline: November 05, 2018

Contacts: Tomasz Durakiewicz, telephone: (703) 292-4892, email: tdurakie@nsf.gov
- Victor Roytburd, telephone: (703) 292-8584, email: vroytbur@nsf.gov
- Dominique Dagenais, telephone: (703) 292-2980, email: ddagenai@nsf.gov
- Amy Walton, telephone: (703) 292-4538, email: awalton@nsf.gov

Grant Program: Advanced Technologies and Instrumentation (ATI)  
Agency: National Science Foundation NSF 18-576


Brief Description: The Advanced Technologies and Instrumentation (ATI) program provides individual investigator and collaborative research grants for development of new technologies and instrumentation for astronomy and astrophysics. The program supports overarching science objectives of the Division of Astronomical Sciences. Development of innovative, potentially transformative technologies are encouraged, even at high technical risk. Supported categories include but are not limited to: advanced technology development or concept feasibility studies and specialized instrumentation to enable new observations that are difficult or impossible to obtain with existing means. Proposals may include hardware and/or software development and/or analysis to enable new types of astronomical observations. The program encourages making products of research available to the public. It also encourages community coordination of technology and instrumentation development efforts via an annual Principal Investigators meeting.

Awards: Standard Grant  
Anticipated Funding Amount: $8,000,000

Letter of Intent: Not Required

Full Proposal Submission Deadline: October 01, 2018 - November 15, 2018

Contacts: Peter L. Kurczynski, (Lead), telephone: (703) 292-7248, email: pkurczyn@nsf.gov
- James E. Neff, telephone: (703) 292-2475, email: jneff@nsf.gov

National Institutes of Health

Grant Program: NLM Research Grants in Biomedical Informatics and Data Science (R01 Clinical Trial Optional)  
Agency: National Institutes of Health NLM PAR-18-896

RFP Website: https://grants.nih.gov/grants/guide/pa-files/PAR-18-896.html

Brief Description: The National Library of Medicine (NLM) supports innovative research and development in biomedical informatics and data science. The scope of NLM's interest in these research domains is broad, with emphasis on new methods and approaches to foster data driven discovery in the biomedical and clinical health sciences as well as domain-independent, reusable approaches to discovery, curation, analysis, organization and management of health-related digital objects. Biomedical informatics
and data science draw upon many fields, including mathematics, statistics, information science, computer science and engineering, and social/behavioral sciences. Application domains include health care delivery, basic biomedical research, clinical and translational research, precision medicine, public health, biosurveillance, health information management in disasters, and similar areas. Biomedical informatics is the interdisciplinary field that studies and pursues the effective uses of biomedical data, information, and knowledge for scientific inquiry, problem solving and decision making, motivated by efforts to improve human health. NIH defines data science as the interdisciplinary field of inquiry in which quantitative and analytical approaches, processes, and systems are developed and used to extract knowledge and insights from increasingly large and/or complex sets of data.

**Awards:** Application budgets are limited to $250,000 per year in direct costs and need to reflect the actual needs of the proposed project.

**Letter of Intent:** Not required

**Deadline:** Standard dates apply, 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:** BRAIN Initiative: Development of Novel Tools to Probe Cell-Specific and Circuit-Specific Processes in Human and Non-Human Primate Brain (UG3/UH3 Clinical Trial Optional)

**Agency:** National Institutes of Health RFA-MH-19-135


**Brief Description:** This FOA is designed to support development and validation of novel tools to facilitate the detailed analysis and/or manipulation of cells and circuits and provide insights into the neural circuitry and structure underlying complex behaviors in humans and non-human primates and other mammalian brains (e.g., sheep, pig). The human brain consists of an estimated one hundred billion neurons and similar number of supporting glial cells that are uniquely organized to confer the extraordinary computational activities of the brain. Considerable progress has been made in defining the cytology and signal transduction processes in the CNS, but circuit-level function and the neural mechanisms of cognition and behavior remain poorly understood. Cell-type and circuit-specific manipulation strategies are key technical factors in addressing these important areas and represent attractive strategies to treat brain disorders. This initiative is focused on developing tools (or vastly improving existing tools) that will ultimately enable access to individual cells and defined groups of cells within neuronal circuits of the human brain. In order to achieve these goals, it is acknowledged that the use of large brains such as non-human primates, sheep and pig will be instrumental in this process. Development of tools that are applicable to human or non-human primate brains should focus on overcoming barriers to use of such tools (i.e., opto/chemo and magnetogenetic actuators). 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 connectional studies. Recent development of innovative technologies (e.g., CLARITY, expansion microscopy, MERFISH, and several other imaging breakthroughs) allows 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 engineers, chemists, material scientists, nanobiologists, 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**: 30 days prior to the application due date.

**Deadline**: October 9, 2018; September 26, 2019 and September 28, 2020, 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: Regenerative Medicine Innovation Project (RMIP) Investigator-Initiated Studies (U01 – Clinical Trial Not Allowed)**

**Agency**: National Institutes of Health RFA-HL-18-030


**RFA-HL-18-031**, **UG3/UH3** Exploratory/Developmental Phased Award Cooperative Agreement

**RFA-HL-18-033**, **UT2** Small Business Technology Transfer (STTR) Cooperative Agreement – Fast-Track

**RFA-HL-18-035**, **U44** Small Business Innovation Research (SBIR) Cooperative Agreement - Fast-Track

**Brief Description**: Applicants are strongly encouraged to submit research applications that demonstrate potential to catalyze sustained and accelerated development of the RM field through contributing to the knowledge critical for clinical testing, stem cell characterization and authentication, cGMP compliant stem cell production, in vivo stem cell tracking and monitoring, data standards development, and data sharing. It is expected that submitted applications will address the following:

- Preclinical studies that contribute to conducting clinical trials that address specific clinical indications;
- Testing human adult stem cells in well-developed animal models;
- Monitoring stem cell function and integration *in vivo*;
- Methods for in-depth stem cell characterization and deep fingerprinting, and utilization of standards;
- Interactions with FDA regarding a future IND or IDE application (such as having had a pre-IND meeting and other communications);
- Further development of standards and cGMP for adult stem cell-based RM products;
- Leveraging extant cell production facilities for product preparation and qualification; and
- Contributing to a better and shared understanding of current technical and operational barriers as well as regulatory science issues and how to overcome them.

**Awards**: The total budget (Federal award and non-Federal matching contributions) should reflect the actual needs of the proposed project. While annual project budgets should reflect the actual costs anticipated in each year, the Federal share of this award must not exceed $250,000 in direct costs per year. The recipient is required to provide at least a 1:1 match of the Federal funds requested (for Direct and Indirect/F&A costs) in the form of non-Federal contributions.

**Letter of Intent**: September 19, 2018

**Deadline**: October 19, 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.

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: Short-term Mentored Career Enhancement Awards in Mobile and Wireless Health Technology and Data Analytics: Cross-Training at the intersection of Behavioral and Social Sciences and STEM Disciplines (K18 Independent Clinical Trial Not Allowed)
Agency: National Institutes of Health PAR-18-881

Brief Description: The objective of the Career Enhancement Award for Experienced Investigators (K18) is to provide support for experienced scientists who either wish to broaden their scientific capabilities or to make changes in their research careers by acquiring new research skills or knowledge. The purpose of this FOA is to provide such investigators with support for an intensive period of mentored research experience to acquire new research capabilities in mobile and wireless health technology and data analytics that align with research areas supported by the sponsoring NIH Institute(s)/Center(s). Such experiences will afford candidate investigators protected time to: 1) enrich and expand their expertise and research programs through retooling in new techniques, emerging technologies, and/or scientific areas; and/or 2) redirect their research programs in new trajectories; and/or 3) catalyze research collaborations in new research directions.
Candidates will not be required to have active research grant support at the time of application. However, they will be expected to identify one or more research mentors with the relevant expertise who are established, well-qualified, and willing to sponsor the short-term research career development experience. It is expected that this initiative will lead to new and augmented research collaborations that will be competitive for future NIH funding.

Research Scope
The goal of the program is to support the development of research capability in mobile and wireless health technology (e.g., wearable devices, mobile applications, electronic health records, data analytics). Special emphasis will be given to independent behavioral and social sciences investigators who seek to train in a STEM discipline (e.g., big data analysis, computational modeling, engineering, computer science, and mathematics) or to STEM scientists who wish to extend their career development in a behavioral and social science discipline.

Awards: Award budgets are composed of salary and other program-related expenses.
Letter of Intent: Not required
Deadline: July 12, 2019; July 12, 2020; 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: NCI Outstanding Investigator Award (R35 Clinical Trial Not Allowed)
Agency: National Institutes of Health PAR-18-880
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PAR-18-880.html

Brief Description: The purpose of the National Cancer Institute (NCI) Outstanding Investigator Award is to provide long-term support and increased flexibility for investigators with outstanding records of research productivity to continue or to embark upon a research program of unusual potential in cancer. Candidates for the OIA must be nominated by their applicant organization. Special features of the OIA include 7-year project periods; the expectation that the OIA PD/PI commit at least 6 person months effort to the OIA; the expectation of clear and substantial Institutional commitment to the PD/PI, for example, providing 20% of salary support; and that PD/PIs will be expected to renegotiate their time and effort on all other grant support, including NIH grants, in order to accommodate the OIA level of effort. It is expected that the OIA will replace current NCI funding on individual research grants. The NCI will only consider funding two additional research project grants to the Outstanding Investigator while the OIA is active. This limit includes single PD/PI, multiple PD/PI and multi-project grants where the OIA
Investigator is the PD/PI. The NCI will not approve a change of PD/PI on an existing NCI grant to avoid the OIA requirements.

**Awards:** Awards will be for $600,000 direct costs per year, plus applicable Facilities and Administrative (F&A) costs to be determined at the time of award.

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

**Deadline:** November 2, 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. 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:** Development of Cell and Tissue Platforms to Detect Adverse Biological Consequences of Somatic Cell Genome Editing (U01 Clinical Trial Not Allowed)

**Agency:** National Institutes of Health RFA-RM-18-022

RFA-RM-18-023, UG3/UH3 Exploratory/Developmental Phased Award Cooperative Agreement

RFA-RM-18-024, U01 Research Project – Cooperative Agreements

RFA-RM-18-025, UH2/UH3 Phase Innovation Awards Cooperative Agreement


**Brief Description:** This program will support the development and validation of human cell- and tissue-based platforms for predicting adverse consequences of genome editing. For the purposes of this FOA, genome editing is defined broadly, extending beyond nuclease-dependent activities for manipulating DNA and thus may also include epigenetic modifiers, transcriptional repression and activation approaches, and RNA editors. Successful projects are expected to develop innovative platforms that faithfully replicate critical aspects of normal human physiology and provide measurable outputs to evaluate potential adverse effects of genome editing, including genotoxicity (particularly translocations), immunogenicity (to the editor, edited protein, or delivery vehicle), and deleterious changes to the biological function of the edited cell/tissue. Successful assays and associated protocols will be shared with the broader community via the SCGE Toolkit that will be the primary output of this collaborative Common Fund-sponsored program.

In developing platforms that accurately represent normal human physiology, primary human cells or tissues are optimal, but these may not be feasible in some cases. Therefore, investigators may propose to use differentiated human stem cells or induced pluripotent stem cells (iPSCs) when appropriate. This FOA will support platforms that include all or a combination of the following features depending on the types of assays and readouts being proposed: 1) multicellular architecture that represent characteristics of the cell type or tissue; 2) functional representation of normal human biology; and 3) reproducible and viable operation under physiologically relevant conditions in vitro. Examples of possible readouts include, but are not limited to: cell growth, cell death, chromosomal rearrangement, epigenetic changes, cytokine production, electrical activity, high content images, and "omics" data that would inform on the biological function of the edited cells.

Platforms being developed under this initiative are expected to be compatible with DNA sequencing, RNA-Seq, or other "omics" based approaches to examine off-target genome editing and conduct pathway analysis. Of special interest are phenotypic assays that would precede immunogenicity and tumorigenicity in vivo, such as changes in gene expression or cellular morphology. Bioinformatics and computational techniques, such as in silico modeling, currently used for predicting the efficiency and physiological consequences of genome editing, should be implemented in combination with the cell/tissue platform studies to evaluate and correlate the precise performance and predictive capacity of these tools in different cell and tissue types. High-throughput approaches to rapidly assess adverse effects of genome editing are also encouraged.
Awards: Application budgets should not exceed $415,000 direct costs per year in FY 2019 and need to reflect the actual needs of the proposed project.

Letter of Intent: September 18, 2018

Deadline: October 18, 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.

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: Mentored Career Development Award to Promote Faculty Diversity in Biomedical Research (K01 Independent Clinical Trial Not Allowed)

Agency: National Institutes of Health RFA-HL-19-026


Brief Description: The NIH recognizes a unique and compelling need to promote diversity in the biomedical, behavioral, clinical and social sciences workforce. The NIH expects efforts to diversify the workforce to lead to the recruitment of the most talented researchers from all groups; to improve the quality of the educational and training environment; to balance and broaden the perspective in setting research priorities; to improve the ability to recruit subjects from minority and other health disparity populations into clinical research protocols; and to improve the Nation's capacity to address and eliminate health disparities. For more information, see Notice of NIH's Interest in Diversity, NOT-OD-18-129.

This program provides research development opportunities for non-tenured science faculty from diverse backgrounds, including those from underrepresented underrepresented groups. Scientists and physicians with some research experience who need guided course work and supervised laboratory experiences, as well as faculty who need an intensive research experience under the guidance of an established scientist, are eligible to apply.

Awards: Award budgets are composed of salary and other program-related expenses, as described below. Application budgets must not exceed $150,000 per year in direct costs. However, applications should reflect the actual needs of the proposed project.

Letter of Intent: Not required

Deadline: October 10, 2018, February 11, 2019, October 10, 2019, February 11, 2020, October 9, 2020, February 11, 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: BRAIN Initiative: Integration and Analysis of BRAIN Initiative Data (R01 Clinical Trial Not Allowed)

Agency: National Institutes of Health RFA-MH-19-147


Brief Description: This FOA supports the development of software to visualize and analyze the data as part of programs of building the informatics infrastructure for the BRAIN Initiative. Other informatics programs include developing data standards that are needed to describe the new experiments that are being created by or used in the BRAIN Initiative (RFA-MH-19-146), and creating the data infrastructures that will house the data from multiple experimental groups (RFA-MH-19-145). Each of the programs is aimed at building an infrastructure that is used by a particular sub-domain of experimentalists rather than building a single all-encompassing informatics infrastructure now. Building the infrastructure one experimental area at a time will ensure that the infrastructure is immediately useful to components of the research community. As our understanding of the brain improves, it may be possible...
to create linkages between these various sub-domain specific informatics programs. Investigators of the informatics programs should keep that goal in mind and build for the future even though the current efforts are more limited in scope.

The data visualization and analysis tools supported under this FOA will make use of the standards and will be built so that they can be integrated into the data repositories, both of which are created in awards under the other FOAs of the informatics programs. Similarly, the data repositories are expected to use the standards. Awardees under all the FOAs are expected to work together. The awardees should budget for hackathons and other collaborative efforts that will be necessary to integrate the products produced by all awardees. Collaborations with neuro-informatics efforts outside of the BRAIN Initiative are both welcome and are encouraged.

**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; March 7, 2019; September 6, 2019; March 6, 2020; September 9, 2020; March 4, 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.

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**Grant Program: NIDCD Hearing Healthcare for Adults: Improving Access and Affordability (R21/R33 Clinical Trials Optional)**

**Agency:** National Institutes of Health RFA-DC-19-001  


**Brief Description:** This FOA requests research to increase accessible and affordable hearing health care (HHC). In this context, HHC refers broadly not only to hearing technology but also to the systematic and comprehensive hearing-related services involved in diagnosis, treatment, auditory rehabilitation, and counseling of individuals with hearing loss, as well as other services that collectively allow the individual to maximize his or her communication outcomes. The overarching emphasis is on the acquisition of knowledge that can be translated into new or enhanced approaches for HHC. Applications should focus on delivering better healthcare access and outcomes and should seek solutions that are effective, affordable, and deliverable to those in need. Research is needed to develop or test new and innovative adaptations of current approaches and practices. These adaptations should be implementable and sustainable in clinical and community practice settings beyond the research environment and may have the potential to address disparities in health care. Research applications may span HHC in the context of a medical model to a psychosocial model of hearing loss. Outcomes research and health services research related to accessible and affordable HHC are also responsive to this FOA. Because some aspects of this research area are new for the NIDCD scientific community, there will likely be a need to obtain preliminary data or conduct early-stage developmental activities before moving to a full-scale project. The Exploratory/Developmental Phased Innovation (R21/R33) grant mechanism is appropriate for this purpose. It provides opportunity for creating, developing, and strengthening new and necessary collaborations, provides opportunity for acquisition of preliminary data, and allows for milestone-driven research, supporting a phased research project with a stepped approach for implementation. Applications not requiring a phased research approach are encouraged to apply under a different funding mechanism (e.g., investigator initiated R21 or R01).

**Awards:** Support for the R21 phase cannot exceed two years and direct costs are limited to $275,000 over the R21 two-year period, with no more than $150,000 in direct costs in any single year of the R21 phase. The R33 phase may not exceed four years and direct costs are limited to $1.4 M with no more than $400,000 in direct costs in any single year of the R33 phase.
Letter of Intent: September 4, 2018
Deadline: October 4, 2018, June 4, 2019, February 4, 2020, October 4, 2020, June 4, 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.

Department of Defense/US Army/DARPA/ONR

Grant Program: Complex Traumatic Brain Injury Rehabilitation Research Clinical Research Award
Agency: Department of Defense Dept. of the Army – USAMRAA W81XWH-18-CTRR-CRA
Website: http://cdmrp.army.mil/funding/dmrdp
Brief Description: The FY18 PH/TBIRP CTRR-CRA is intended to support clinical research focused on understanding the clinical sequelae and mechanisms of recovery associated with TBI and TBI rehabilitation interventions. The overarching goals of this award are to address TBI-related impairments and deficits, including multimodal, and cognitive dysfunction to (1) develop and validate rehabilitation outcome measures; (2) systematically analyze standard of care cognitive interventions to identify optimal treatment ingredients; and (3) improve clinician-driven assessment strategies to guide return-to-duty decision making.

The FY18 PH/TBIRP CTRR-CRA seeks research to develop and validate novel outcome measures that will characterize and track functional cognitive performance in Service members and relevant populations with cognitive dysfunction following TBI; and to identify key treatment ingredients to optimize cognitive rehabilitation following TBI, as consistent with the mission of the JPC-8/CMRMP. The proposed research must be relevant to active duty Service members, Veterans, and their beneficiaries. It is expected that any research findings will also provide benefit to the general population.

The FY18 PH/TBIRP CTRR-CRA mechanism supports applied and translational clinical research to advance the development of knowledge and materiel products for rehabilitation and restoration of function following TBI. Applicants should explain how their work will inform the development, refinement, and/or revision of existing standards of care, clinical recommendations, or guidelines.

Awards: Various; Available Funding: $4,000,000.
Proposal Deadline: Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), September 24, 2018 • Invitation to Submit an Application: October 2018 • Application Submission Deadline: 11:59 p.m. ET, December 17, 2018
Contact Information: CDMRP Help Desk Phone: 301-682-5507 Email: help@eBRAP.org

Grant Program: Young Faculty Award
Agency: Department of Defense DARPA DARPA-RA-18-02
Website: https://www.darpa.mil/work-with-us/opportunities
Brief Description: The Defense Advanced Research Projects Agency (DARPA) Young Faculty Award (YFA) program aims to identify and engage rising stars in junior faculty positions in academia and equivalent positions at non-profit research institutions and expose them to Department of Defense (DoD) and National Security challenges and needs. In particular, this YFA will provide high-impact funding to elite researchers early in their careers to develop innovative new research directions in the context of enabling transformative DoD capabilities. The long-term goal of the program is to develop the next generation of scientists and engineers in the research community who will focus a significant portion of
their future careers on DoD and National Security issues. DARPA is particularly interested in identifying outstanding researchers who have previously not been performers on DARPA programs, but the program is open to all qualified applicants with innovative research ideas.

**Eligibility Requirements:** Participation in the YFA program is limited to any current tenure-track Assistant or Associate Professors and to tenured Assistant or Associate Professors within three (3) years of their tenure appointment at a U.S. institution of higher education or equivalent at a U.S. non-profit science and technology research institutions. Proposals are not being sought from foreign organizations; however, foreign organizations may be a member of a team in a subcontractor role. Previous YFA recipients are not eligible to apply to this or any future YFA program. Please see Section III for more details.

**Awards:** Each award will include a 24-month base period (a maximum of $500,000) and a 12-month option period (a maximum of $500,000).

**Proposal Deadline:** Executive Summary Due Date: September 10, 2018, 4:00 p.m. o FAQ Submission Deadline: November 8, 2018, 4:00 p.m. See Section VIII.A. o Full Proposal Due Date: November 13, 2018, 4:00 p.m.

**Contact Information:** RA Coordinator YFA2019@darpa.mil

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**Grant Program: DoD Accelerating Innovation in Military Medicine Research Award**

**Agency:** Department of Defense DARPA W81XWH-18-DMRDP-AIMM

**Website:** [http://cdmrp.army.mil/funding/dmrdp](http://cdmrp.army.mil/funding/dmrdp)

**Brief Description:** The U.S. Army Medical Research and Materiel Command’s (USAMRMC) mission is to responsibly and responsibly create, develop, deliver, and sustain medical capabilities for the Warfighter. The AIMM initiative was created to accelerate transformational biomedical research for our Armed Forces and Nation. The mission of the AIMM initiative is to encourage, identify, and enable innovative research that leads to cross-cutting solutions to military health threats. The AIMM Research Award is intended to support highly creative and conceptually innovative high-risk research with the potential to accelerate critical discoveries or major advancements that will significantly impact military health and medicine. AIMM initiative funding supports novel research concepts and other efforts that initiate or enhance potential game-changers that may not be supported by other funding mechanisms or core programs.

**Awards:** Appropriations for the AIMM initiative in FY17 totaled $3 million (M). The FY18 appropriation is $3M.

**Proposal Deadline:** Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), September 19, 2018 • Invitation to Submit an Application: November 9, 2018 • Application Submission Deadline: 11:59 p.m. ET, January 2, 2019

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

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**Grant Program: BROAD AGENCY ANNOUNCEMENT (BAA) for Extramural Biomedical Research and Development**

**Agency:** Department of Defense Dept. of the Army – USAMRAA W81XWH-18-S-SOC1


**Brief Description:** This BAA is intended to solicit extramural research and development ideas using the authority provided by United States Code, Title 10, Section 2358. This BAA is issued under the provisions of the Competition in Contracting Act of 1984 (Public Law 98-369), as implemented in Federal Acquisition Regulation 6.102(d) (2) and 35.016 and in DoD Grant and Agreement Regulations (DoDGARs) 22.315. In accordance with FAR 6.102, projects funded under this BAA must be for basic
and applied research to support scientific study and experimentation directed toward advancing the state-of-the-art or increasing knowledge or understanding rather than focusing on development of a specific system or hardware solution. Research and development funding through this BAA are intended and expected to benefit and inform both military and civilian medical practice and knowledge. This BAA provides a general description of USSOCOM’s research and development programs, including research areas of interest, evaluation and selection criteria, pre-proposal/preapplication and full proposal/application preparation instructions, and general administrative information. Submission of a pre-proposal/pre-application is required. After review, if the USSOCOM is interested in receiving a full proposal/application, the Applicant or Offeror will be invited to submit a full proposal or full application. Specific submission information and additional administrative requirements can be found in the document titled “General Submission Instructions” available in Grants.gov along with this BAA.

Pre-proposal: Required. All pre-applications for both extramural and intramural organizations must be submitted through eBRAP (https://eBRAP.org/).

Awards: Total Funding Available: $4,500,000

Proposal Deadline: 31 July, 2023, 11:59 p.m. Eastern Time

Contact Information: Questions related to BAA content or submission requirements as well as questions related to the submission of the pre-proposal/pre-application through eBRAP should be directed to the EBRAP Help Desk, which is available Monday through Friday from 8:00 a.m. to 5:00 p.m. Eastern Time. Response times may vary depending upon the volume of inquiries. Phone: 301-682-5507 Email: help@eBRAP.org

Grant Program: DoD Vision, Investigator- Initiated Research Award
Agency: Department of Defense CDMRP W81XWH-18-VRP-IIRA

Brief Description: The FY18 VRP IIRA is intended to support studies that will yield highly impactful discoveries or major advancements in the research and/or patient care of eye injury and/or visual dysfunction as related to military-relevant trauma. Research projects may focus on any phase of research (e.g., basic, translational, applied, clinical, observational), excluding clinical trials. The research idea or solution should be innovative, novel, or a significant advancement over existing ideas or solutions, as applicable.

The application should clearly state the type of trauma that is being addressed and describe how the project’s potential immediate and long-range outcome(s)/product(s) will advance the understanding, prevention, diagnosis, mitigation, and/or treatment of eye injury or visual dysfunction associated with the trauma.

Awards: Total Funding Available: $4,500,000

Proposal Deadline:
Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), September 4, 2018 • Invitation to Submit an Application: October 2018 • Application Submission Deadline: 11:59 p.m. ET, December 4, 2018

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

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) 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


**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](https://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://ies.ed.gov/funding), [https://www.ed.gov/programs/edresearch/index.html](https://www.ed.gov/programs/edresearch/index.html), and [https://www.ed.gov/programs/specialedresearch/index.html](https://www.ed.gov/programs/specialedresearch/index.html).

**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


Contact Information: Julius Cotton ED Grants.gov FIND Systems Admin. Phone 202-245-6288 EducationGrantInquiries@ed.gov
Program Manager: Molly Faulkner-Bond e-Mail: Molly.Faulkner-Bond@ed.gov

EPA

Grant Program: Practical Methods to Analyze and Treat Emerging Contaminants (PFAS) in Solid Waste, Landfills, Wastewater/Leachates, Soils, and Groundwater to Protect Human Health and the Environment
Agency: Environmental Protection Agency EPA-G2018-STAR-B1
EPA-G2018-STAR-B1, Practical Methods to Analyze and Treat Emerging Contaminants (PFAS) in Solid Waste, Landfills, Wastewater/Leachates, Soils, and Groundwater to Protect Human Health and the Environment
Website: https://www.epa.gov/research-grants/practical-methods-analyze-and-treat-emerging-contaminants-pfas-solid-waste-landfills#Award

Brief Description: The U.S. Environmental Protection Agency (EPA), as part of its Science to Achieve Results (STAR) program, is seeking applications proposing research that will lead to: (1) better understanding and characterization of the types and quantities of current and historical per- and polyfluoroalkyl substances (PFAS) and PFAS-containing waste associated with waste disposal (e.g., landfills), as well as media containing PFAS released from these activities (e.g., PFAS in leachate collected by landfills or PFAS leaching to subsurface soils and groundwater); (2) increased knowledge of the fate, transport, potential for degradation or other changes to PFAS, and their mobility during materials management (e.g., under different landfill conditions such as pH, temperature, moisture content) that facilitate or retard such transformation or movement; and (3) new or improved methods that are more effective, efficient (in cost, energy, etc.), and practical in controlling, treating, destroying, or removing PFAS in waste and wastewater, landfill leachates, biosolids, or environmental media. The main goal is to promote innovation in evaluating and managing PFAS in solid waste, landfills, and environmental media
that will lead to improved decision making, management practices, and technical methods to minimize
the risks to both humans and ecosystems.

This solicitation provides the opportunity for the submission of applications for projects that may
involve human subjects research. Human subjects research supported by the EPA is governed by EPA
Regulation 40 CFR Part 26 (Protection of Human Subjects). This includes the Common Rule at subpart
A and prohibitions and additional protections for pregnant women and fetuses, nursing women, and
children at subparts B, C, and D. Research meeting the regulatory definition of intentional exposure
research found in subpart B is prohibited by that subpart in pregnant women, nursing women, and
children. Research meeting the regulatory definition of observational research found in subparts C and
D is subject to the additional protections found in those subparts for pregnant women and fetuses (subpart
C) and children (subpart D). All applications must include a Human Subjects Research Statement (HSRS,
as described in Section IV.C.5.c of this solicitation), and if the project involves human subjects research,
it will be subject to an additional level of review prior to funding decisions being made as described in
Sections V.D and V.E of this solicitation.

**Awards:** Up to a total of $900,000 for a regular award and up to a total of $500,000 for an early career
award; Available Funding: $6,000,000

**Submission Deadline:** Full Application Submission Deadline: October 2, 2018

**Contact Information:** Technical Contact: Intaek Hahn (hahn.intaek@epa.gov); phone: 202-564-4377
Eligibility Contact: Ron Josephson (josephson.ron@epa.gov); phone: 202-564-7823

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**Department of Energy**

**Grant Program:** Machine Learning for Geothermal Energy

**Agency:** Department of Energy DE-FOA-0001956

**Website:** [https://eere-exchange.energy.gov/](https://eere-exchange.energy.gov/)

**Brief Description:** The U.S. Department of Energy’s Geothermal Technology Office (GTO) Machine
Learning for Geothermal Energy funding opportunity announcement (FOA) supports projects that will
develop new analytical tools for finding and developing geothermal resources and establish the practice
of machine learning in geothermal operations. The rapidly advancing field of Machine Learning (ML)
offers substantial opportunities for technology advancement and cost reduction throughout the geothermal
project lifecycle, from resource exploration to power plant operations. Under this funding opportunity,
GTO is interested in two topic areas:

**Topic 1: Machine Learning for Geothermal Exploration** - GTO seeks projects that advance geothermal
exploration through the application of machine learning techniques to geological, geophysical,
geochemical, borehole, and other relevant datasets. Of particular interest to GTO are projects that will
identify data acquisition targets and build community datasets for future work.

**Topic 2: Advanced Analytics for Efficiency and Automation in Geothermal Operations** - GTO seeks
projects that apply advanced analytics to power plant and other operator datasets, with the goal of
improving operations and resource management.

For questions and answers pertaining to this FOA, please reference the DE-FOA-0001956 Machine
Learning FAQ Log in FOA Documents.

**Awards:** Up to $700,000; Available Funding: $3,600,000

**Submission Deadline:** Concept Paper Submission Deadline: 8/23/2018 5:00 PM ET
  - Full Application Submission Deadline: 11/1/2018 5:00 PM ET

**Contact Information:** EERE-ExchangeSupport@hq.doe.gov
For Exchange related support and issues.
  - machinelearninggeo@ee.doe.gov For questions regarding the FOA
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
Contact Information: Grant Specialist Alex Trejo 505-845-5472 alex.trejo@nnsa.doe.gov

NASA

Grant Program: ROSES 2018: Cassini Data Analysis Program: PDS Cassini Data Release 54
Agency: NASA NNH18ZDA001N-CDAPR54
Website: https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7BE10A322F-0907-1754-8893-15F97479CD52%7D&path=open&method=init
**Brief Description:** This National Aeronautics and Space Administration (NASA) Research Announcement (NRA), Research Opportunities in Space and Earth Sciences (ROSES) – 2018, solicits basic and applied research in support of NASA’s Science Mission Directorate (SMD). ROSES is an omnibus NRA, with many individual program elements, each with its own due dates and topics. All together these cover the wide range of basic and applied supporting research and technology in space and Earth sciences supported by SMD. Awards will be made as grants, cooperative agreements, contracts, and inter- or intraagency transfers, depending on the nature of the work proposed, the proposing organization, and/or program requirements. The typical period of performance for an award is three years, but some programs may allow up to five years and others specify shorter periods. Organizations of every type, domestic and foreign, Government and private, for profit and not-for-profit, may submit proposals without restriction on teaming arrangements. Note that it is NASA policy that all research involving non-U.S. organizations will be conducted on the basis of no exchange of funds.

**Awards:** Various  
**Proposal Deadline:** September 18, 2018  
**Contact:** Max Bernstein Planetary Science Division Science Mission Directorate NASA Headquarters Washington, DC 20546-0001 Email: max.bernstein@nasa.gov

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**Grant Program:** ROSES 2018: DSCOVR Science Team  
**Agency:** NASA NNH18ZDA001N-DSCOVR  

**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 NASA Headquarters; Telephone: 202-358-2567 ; Email: Richard.S.Eckman@nasa.gov
National Endowment of Humanities

Grant Program: Humanities Connections Implementation Grants  
Agency: National Endowment of Humanities  
Website: https://www.neh.gov/grants/education/humanities-connections-implementation-grants

Brief Description: The Humanities Connections program seeks to expand the role of the humanities in undergraduate education at two- and four-year institutions. Awards will support innovative curricular approaches that foster productive partnerships among humanities faculty and their counterparts in the social and natural sciences and in pre-service or professional programs (such as business, engineering, health sciences, law, computer science, and other technology-driven fields), in order to encourage and develop new integrative learning opportunities for students.  
Competitive applications will demonstrate
- that the proposed curricular projects address significant and compelling topics or issues in undergraduate education at the applicant institution(s);
- that these projects develop the intellectual skills and habits of mind cultivated by the humanities; and
- that faculty and students will benefit from meaningful collaborations in teaching and learning across disciplines as a result of the project.

Humanities Connections projects have four core features:
1. integration of the subject matter, perspectives, and pedagogical approaches of two or more disciplines (with a minimum of one in and one outside of the humanities);
2. collaboration between faculty from two or more separate departments or schools at one or more institutions;
3. experiential learning as an intrinsic part of the curricular plan; and
4. long-term institutional support for the proposed curriculum innovation(s).

Award: Up to $100,000  
Proposal Deadline: October 17, 2018  
Contact: Contact the staff of NEH’s Division of Education Programs at 202-606-8337 or humanitiesconnections@neh.gov.

Michael J. Fox Foundation

Grant Program: Research and Open Innovation  
Agency: Michael J. Fox Foundation  
Website: https://www.michaeljfox.org/research/apply-for-grant.html

Brief Description: The Michael J. Fox Foundation works tirelessly to accelerate promising research toward breakthroughs for Parkinson's patients. While our strong emphasis is on funding translational and clinical research, we also support high-risk/high-reward discovery work. Learn more about our priorities on our Research Strategy page.

In addition to funding, awardees benefit from working with our internal research staff and broad network of scientific and industry advisors.

Award: Various  
Funding Webinar: September 6, 2018  
Pre-Proposal Deadline: September 26, 2018  
University Nomination Process and Contact: If interested, please send an email to Eric Blitz (eric.blitz@njit.edu) and Atam Dhawan (dhawan@njit.edu).
ACI Foundation

Grant Program: Concrete Research
Agency: ACI Foundation
Website: https://www.acifoundation.org/research

Brief Description: The ACI Foundation’s Concrete Research Council (CRC) seeks to advance the concrete industry through the funding of concrete research projects that further the knowledge and sustainability of concrete materials, construction, and structures in coordination with ACI Committees where possible.

Awards: Up to $50,000 may be approved per project for direct costs;
Proposal Deadline: December 1, 2018
Contact: Please let Eric Blitz (eric.blitz@njit.edu) and Atam Dhawan (dhawan@njit.edu) know if you are interested in applying.

Samsung

Grant Program: The Global Research Outreach (GRO) Program
Agency: Samsung
Website: https://www.sra.samsung.com/partnerships/university/

Brief Description: Theme: EXPLAINABLE DEEP LEARNING MODELS - Sub Theme: Explainable Models in Multi-modal Applications The task of explaining Deep Learning (DL) models has gained a lot of interest from the research community in recent times. In this GRO, we propose studying explainability of DL models, specifically via two problems: (a) Explainable Multi-modal Visual Dialog: There are many scenarios in mobile phone or desktop usage where a user inspects an image (e.g., a picture shared on the phone or an image obtained while browsing the web) and asking questions about it (e.g., where was this picture taken) – this is the problem of Visual Question Answering (VQA). The user may also ask for explanations for the answers generated in VQA (e.g., why you think so) – this is the task of Explainable Question Answering (XQA). However, while using a conversational assistant like Samsung Bixby, the user may be involved in a multi-modal dialog with the assistant, using text input, speech, etc. Those additional user input may contain rich context information for the assistant to understand and digest. As the assistant interacts with the user in a conversation across multiple modalities, the user may ask for explanations at different stages -- we call this the problem of Explainable Multi-modal Visual Dialog. (b) Explainable Recommendations: The Bixby assistant often makes shopping suggestions or other purchase recommendations to the user (e.g., based on an image that is taken from the camera album, based on a spoken purchase request made by the user, etc.). One of the research goals in such a recommendation system could be explaining the underlying reason of the recommendations made during immersive interactive experiences (e.g., when shopping for items online using Bixby vision, using the point-and-shoot camera).

Theme: Beyond 5G Communication Systems - Sub Theme: Components for Terahertz Communication Systems Terahertz (THz) frequency band, 0.1 to 10 THz, offers vast spectrum resources to support >100Gbps for beyond 5G communication systems. FCC is currently considering to open the 95 - 475 GHz range for commercial use. Key component challenges for THz communication are low noise/high gain amplification, high linearity transmit power generation, low noise oscillators, and THz frequency conversion. Short wavelengths (3mm @ 100GHz) THz present challenges in conventional antenna element fabrication, while on-chip antennas traditionally exhibit reduced efficiency. Additional challenges arise from increased path loss and the resulting increase in antennas required for sufficient link margin. The latter offers opportunities in spatial spectrum reuse by taking advantage of the resulting pencil-beam transmissions.
**Awards:** Financial sponsorship for one year, in amounts up to $120,000

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

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**Simons Foundation**

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

**Simons Foundation Fellowships in Math and Theoretical Physics**

**Agency:** Simons Foundation

**Website:**

https://www.simonsfoundation.org/mathematics-physical-sciences/simons-investigators/simons-investigator-program-nominations/  
https://www.simonsfoundation.org/grant/simons-fellows-in-theoretical-physics/?tab=rfa  
--- Simons Fellows in Theoretical Physics.  
https://www.simonsfoundation.org/grant/simons-fellows-in-mathematics/?tab=rfa  
--- Simons Fellows in Mathematics

**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) and Atam Dhawan (dhawan@njit.edu) and copy to college dean to discuss the nomination before August 1, 2018.

Grant Program: Simons Foundation Fellowships in Math and Theoretical Physics
Agency: Simons Foundation
Website: 
https://www.simonsfoundation.org/grant/simons-fellows-in-mathematics/?tab=rfa  ---  Simons Fellows in Mathematics

Brief Description: The Simons Foundation’s Mathematics and Physical Sciences (MPS) division invites applications for the Simons Fellows in Theoretical Physics program, which is intended to make sabbatical leaves more productive by extending them to a full academic year. The MPS division’s scientific advisory board will advise the foundation on the selection of awardees. Awards will be based on the applicant’s scientific accomplishments in the five-year period preceding the application and on the potential scientific impact of the work to be done during the leave period.

Eligibility Requirements: A Simons Fellow in Theoretical Physics must have a teaching or administrative tenured position at the same U.S. or Canadian college or university within the physics or related department at the time of application, throughout the course of the sabbatical and in the term following the leave. This must be the applicant’s primary position. In addition, a Fellow must have an active current research program. Fellows cannot simultaneously hold a Simons Investigator award.

Award: A Simons Fellowship in Theoretical Physics/Mathematics provides salary replacement for up to 50 percent (up to a maximum of $100,000) of the Fellow’s current academic-year salary, whether normally paid over 9 or 12 months, and up to $25,000 for expenses related to the leave. The Fellow’s home institution will receive an additional 20 percent overhead on allowable expenses. Please note that the foundation’s indirect cost policy allows up to 20 percent of direct cost expenditures. Any unspent funds at the end of the award must be returned to the Simons Foundation.

Proposal Deadline: September 27, 2018

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

Whitehall Foundation

Grant Program: Research Grants in Neurology
Agency: Whitehall Foundation
Website: http://www.whitehall.org/grants/

Brief Description: Research grants are available to established scientists of all ages working at accredited institutions in the United States. Applications will be judged on the scientific merit and the innovative aspects of the proposal as well as on the competence of the applicant. Research grants of up to three years will be provided. A renewal grant with a maximum of two years is possible, but it will be awarded on a competitive basis. Research grants will not be awarded to investigators who have already received, or expect to receive, substantial support from other sources, even if it is for an unrelated purpose.

Award: Research grants normally range from $30,000 to $75,000 per year.

Proposal Deadline: October 1, 2018
University Nomination Process and Contact: If interested, please send an email to Eric Blitz (eric.blitz@njit.edu) and Atam Dhawan (dhawan@njit.edu).

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**BrightFocus Foundation**

**Grant Program: Alzheimer's Disease Research Program; Macular Degeneration Research Program; National Glaucoma Research Program**

**Agency:** BrightFocus Foundation  
**Website:** [https://www.brightfocus.org/grants/types-grants](https://www.brightfocus.org/grants/types-grants)

**Brief Description:** Alzheimer's Disease Research Program

The ADR program offers two types of awards:

**Standard Awards**

The standard award provides significant funding for researchers who have already generated some amount of preliminary data, but are often required to demonstrate additional, significant progress before they can apply to governmental or industrial funding agencies.

- **Award Amount:** $300,000  
- **Duration:** 3 years

**Postdoctoral Fellowship Awards**

Postdoctoral fellowship awards are intended for young researchers in their final stages of mentored training. These awards fund projects in an established laboratory that will serve as the basis for the applicant's own independent research career.

- **Award Amount:** $200,000  
- **Duration:** 2 years

**Macular Degeneration Research Program**

**Standard Awards**

The standard award provides significant funding for researchers who have already generated some amount of preliminary data, but are often required to demonstrate additional, significant progress before they can apply to governmental or industrial funding agencies.

- **Maximum award value:** $200,000  
- **Maximum duration:** 2 years

**National Glaucoma Research Program**

**Standard Awards**

The standard award provides significant funding for researchers who have already generated some amount of preliminary data, but are often required to demonstrate additional, significant progress before they can apply to governmental or industrial funding agencies.

- **Award Amount:** $200,000  
- **Maximum Duration:** 2 years

**Proposal Deadline:** September 5, 2018

**University Nomination Process and Contact:** If interested, please send an email to Eric Blitz (eric.blitz@njit.edu) and Atam Dhawan (dhawan@njit.edu).

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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/](http://www.njit.edu/research/streamlyne/)

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**Streamlyne Information**


*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/](http://www5.njit.edu/research/streamlyne/). The 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; and Eric Hetherington, Director, Sponsored Research Programs Administration 973-596-3631; 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
- **Cristo Leon**, CSLA Director of Research; (973) 596-6426; cristo.e.yanezleon@njit.edu
- **Sean Andrews**, YWCC Director of Research; (973) 596-5352; sean.t.andrews@njit.edu
- **Iris Pantoja**, NCE, CoAD and MTSM Project Manager; 973-596-4483; 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).