

NJIT Research Newsletter

Issue: ORN-2017-27

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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Special Announcement

Reminder: Call For Proposals: NJIT Faculty Seed Grant Awards – 2017-18

Proposal Submission Deadline to College/School Dean: September 1, 2017

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 20-25 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:

FSG Proposal Due in the Office of College/School Dean: September 1, 2017

College/School Dean Recommendations to Office of Research: September 10, 2017

Institutional Review and Announcement of Awards: September 15, 2017

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)

Internal Competition for NSF Innovations in Graduate Education (IGE) Program

Pre-proposals in the following format (maximum 5 pages) should be submitted to respective dean's office by September August 25, 2017. Deans are requested to forward up to 2 pre-proposals with their recommendations to the Office of Research at dhawan@njit.edu by September 4, 2017. Two pre-proposals will be selected after institutional review by Sept 8, 2017.

Pre-proposal Format (maximum 5 pages):

1. Title and key personnel with affiliation
2. Project Summary (1-page)
3. Internal and External Collaboration
4. Intellectual Merit: Innovation in Graduate Education
5. Broader Impact
6. Performance Assessment/Project Evaluation
7. Tentative Budget Summary and Any Resources Needed

Grant Program: Innovations in Graduate Education (IGE) Program

Agency: National Science Foundation NSF 17-585

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17585/nsf17585.htm>

Brief Description: The Innovations in Graduate Education (IGE) program is designed to encourage the development and implementation of bold, new, and potentially transformative approaches to STEM graduate education training. The program seeks proposals that explore ways for graduate students in research-based master's and doctoral degree programs to develop the skills, knowledge, and competencies needed to pursue a range of STEM careers.

IGE focuses on projects aimed at piloting, testing, and validating innovative and potentially transformative approaches to graduate education. IGE projects are intended to generate the knowledge required for their customization, implementation, and broader adoption. The program supports testing of novel models or activities with high potential to enrich and extend the knowledge base on effective graduate education approaches.

The program addresses both workforce development, emphasizing broad participation, and institutional capacity building needs in graduate education. Strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, national

laboratories, field stations, teaching and learning centers, informal science centers, and academic partners are encouraged.

Awards: Standard Grants. **Anticipated Funding Amount:** \$4,000,000

Limit on Number of Proposals per Organization: 2

An eligible organization may participate in two Innovations in Graduate Education proposals per competition. Participation includes serving as a lead organization on a non-collaborative proposal or as a lead organization, non-lead organization, or subawardee on a collaborative proposal. Organizations participating solely as evaluators on projects are excluded from this limitation. Proposals that exceed the institutional eligibility limit (beyond the first two submissions based on timestamp) will be returned without review regardless of the institution's role (lead, non-lead, subawardee) in the returned proposal.

Limit on Number of Proposals per PI or Co-PI: 1

An individual may serve as Lead Principal Investigator (PI) or Co-PI on only one proposal submitted to the IGE program per annual competition. Proposals that exceed the PI/Co-PI eligibility limit (beyond the first submission based on timestamp) will be returned without review.

Letter of Intent: Not Required

Proposal Submission Due Date: October 25, 2017

Contacts: Laura B. Regassa, telephone: (703) 292-2343, email: lregassa@nsf.gov

- Tara L. Smith, telephone: (703) 292-7239, email: tsmith@nsf.gov
- Stephen Mulkey, telephone: (703) 292-8954, email: smulkey@nsf.gov

Grant Opportunity Alerts

Keywords and Areas Included in the Grant Opportunity Alert Section Below

NSF: SBE Postdoctoral Research Fellowships (SPRF); Japan-US Network Opportunity 2 (JUNO2); Process Separations; Innovations in Graduate Education (IGE) Program; Discovery Research PreK-12 (DRK-12); CISE Research Infrastructure (CRI); Secure and Trustworthy Cyberspace (SaTC); Advancing Informal STEM Learning (AISL)

NIH: Grant Program: CREATE Bio Optimization Track for Biologics (SBIR-U44); Point-of-Care Technologies Research Network Centers (U54); NIBIB Exploratory/Developmental Research Grant Program (R21); Ethical, Legal, and Social Implications (ELSI) of Genomics Exploratory/Developmental Research Grant Program (R21) (R01) (R03); Exploratory/Developmental Investigations on Primary Immunodeficiency Diseases (R21)

Department of Defense/US Army/DARPA/ONR: Breast Cancer Research Program Innovator Award; DoD, Peer Reviewed Alzheimer's Research; FY2018 Basic Research Challenge (BRC) Program; CENTER OF EXCELLENCE: Trusted Human-Machine Teaming

Department of Energy: Advanced Manufacturing Graduate-Level Traineeships; Photovoltaics (PV) Innovation Roadmap; Technology Development to Ensure Environmentally Sustainable CO2 Injection Operations

NASA: ROSES 2017: Discovery Data Analysis; ROSES 2017: Rosetta Data Analysis

National Endowment of Humanities: Summer Stipends; Research and Development Grants

Burroughs Welcome Fund: Career Awards

Simon Foundation: Foundation Grants

Recent Research Grant and Contract Awards

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

PI: Qing Liu (PI)

Department: Electrical and Computer Engineering

Grant/Contract Project Title: SHF: Small: Collaborative Research: Tailoring Memory Systems for Data-Intensive HPC Applications

Funding Agency: NSF

Duration: 08/15/17-07/31/20

PI: Zhi Wei (PI)

Department: Computer Science

Grant/Contract Project Title: MACRO: Early Events in KSVH Infection of Primary B-cells

Funding Agency: NIH

Duration: 05/02/17-04/30/18

PI: Bryan Pfister (PI)

Department: Biomedical Engineering

Grant/Contract Project Title: Linking How the Mechanics of High Rate and Impulse of Loading to the Brain Leads to Varying Types and Levels of Damage to Neuronal Structure and Function

Funding Agency: NSF

Duration: 08/15/17-02/28/18

PI: Mengyan Li (PI)

Department: Chemistry and Environmental Science

Grant/Contract Project Title: Marsh Plants-Derived Biochar for Synergistic Decontamination of Dioxins, PCBs, and Mercury in Passaic River

Funding Agency: US Geological Survey

Duration: 03/01/17-07/31/20

PI: Qiang Tang (PI) and Chase Wu (Co-PI)

Department: Computer Science

Grant/Contract Project Title: Blockchain-Based Energy Systems

Funding Agency: US Department of Energy

Duration: 06/21/17-03/31/18

In the News...

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

Research Integrity: In 2007, Congress passed the America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science Act (America COMPETES Act), which among other things directed NSF to introduce a requirement for awardees to provide adequate training for undergraduate students, graduate students, and postdoctoral researchers about the Responsible Conduct of Research (RCR).

By law, the National Science Foundation is supposed to require that institutions receiving grants train their undergraduates, graduate students, and postdoctoral researchers about the responsible conduct of research (RCR). NSF's Office of Inspector General (OIG) checked out 48 institutions and found that 11 - 23 percent - did not have an RCR plan or a designated person to make sure that the required participants took the training. Eight of the 11 developed a plan after being contacted by the OIG. [In a report](#), the OIG says: "The lack of guidance from NSF as to what constitutes 'appropriate training' means that NSF cannot guarantee that the instruction provided in response to the RCR training requirement meets a minimum level of quality"; "Some institutions are engaged in promising practices or using techniques that are worthy of being shared with the broader community"; "No institutions are conducting risk assessments, despite the fact that NSF's FAQ says that they should"; "Requiring RCR training only for participants supported by NSF can have negative consequences"; and, "Although faculty play a critical role in the research enterprise and constitute a significant percentage of research misconduct subjects, only 15 percent of the plans we reviewed require faculty to take RCR training." More information on https://www.nsf.gov/oig/pdf/RCR_MIR_Final_7-25-17.pdf

Building America's Skilled Technical Workforce: Skilled technical occupations—defined as occupations that require a high level of knowledge in a technical domain but do not require a bachelor's degree for entry—are a key component of the U.S. economy. In response to globalization and advances in science and technology, American firms are demanding workers with greater proficiency in literacy and numeracy, as well as strong interpersonal, technical, and problem-solving skills. However, employer surveys and industry and government reports have raised concerns that the nation may not have an adequate supply of skilled technical workers to achieve its competitiveness and economic growth objectives.

In response to the broader need for policy information and advice, *Building America's Skilled Technical Workforce* examines the coverage, effectiveness, flexibility, and coordination of the policies and various programs that prepare Americans for skilled technical jobs. This report provides action-oriented recommendations for improving the American system of technical education, training, and certification. More information and the full report is posted on the website <https://www.nae.edu/170416.aspx>.

NIH Plans to Re-issue Development of Next Generation Human Brain Imaging Tools and Technologies: The NIH Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative intends to reissue RFA-EB-17-002, Development of Next Generation Human Brain Imaging Tools and Technologies, with modifications. This funding opportunity aims to support full development of entirely new or next generation noninvasive human brain imaging tools and methods that will lead to transformative advances in our understanding of the human brain. The FOA seeks innovative applications that are ready for full-scale development of breakthrough technologies with the intention of delivering working tools within the timeframe of the BRAIN Initiative. The FOA represents the second stage of the tool/technology development effort that started with [RFA-MH-14-217](#) and [RFA-MH-15-200](#). This FOA solicits applications proposing full development for next generation human brain imaging and breakthrough technologies that would overcome existing barriers. If developed, such technologies would enable imaging and measuring brain processes in ways that are currently unachievable, thereby acquiring fundamental novel insight about how the human brain is organized and functions. This FOA will provide the needed resources to support teams to meet the grand challenges of developing novel and transformative interdisciplinary approaches to human brain imaging. The intended outcome is bold, high-impact, and disruptive tools and methods for human neuroscience that can be used practically and

ethically in healthy humans irrespective of disease state. More information is posted on the website <https://grants.nih.gov/grants/guide/notice-files/NOT-EB-17-006.html>

UNPREPARED FOR DISASTER: A National Academies panel [reports](#) that "historically there has been a general lack of preparedness as an organized effort" by biomedical research facilities and believes "we have a long way to go to optimize the resilience of the academic biomedical research community." Despite the community's "already having experienced several significant disasters, there is a large gap today between the community's existing level of preparedness and what the community will require to optimally recover from disasters." For more information on the website <https://www.nap.edu/catalog/24827/strengthening-the-disaster-resilience-of-the-academic-biomedical-research-community>

Clean Energy and Fusion: The Committee recommends \$167.5 million for solar; \$72.5 million for wind; and \$82 million for water power. Contrary to the administration's shift to early-stage R&D, it says "such an approach will not successfully integrate the results of early-stage research and development into the U.S. energy system." The panel says it "understands the Department has either delayed or does not intend to initiate a renewal for the Batteries and Energy Storage Hub, the Joint Center for Energy Storage Research [JCESR]. The Committee directs the Department to move forward with the review and renewal process to support the next 5-year charter for next-generation battery and storage technologies" and provides \$24 million for the hub. While providing \$232 million for fusion, the panel seeks once again to zero out America's contribution to the International Thermonuclear Experimental Reactor being built in France. With House support, ITER has survived in the past. The committee calls on DOE to identify strategic laboratory, university, and industry partnerships that would enhance national security and assist industry in addressing critical threats, including electromagnetic pulse, geomagnetic disturbances, cyber-attacks, and supply chain disruptions. The panel "continues to encourage the Department to establish university partnerships to support ongoing fossil energy programs, to promote broader research into CCS technologies, and to expand its technology transfer efforts." More information on <https://www.congress.gov/115/crpt/srpt125/CRPT-115srpt125.pdf>

NSF Policy and Awards Update (May 2017): NSF Pilots a New Collaborator and Other Affiliations Template: Last month NSF began piloting a new format for submitting Collaborators and Other Affiliations Information in FastLane. Proposers are required to include collaborators and other affiliations information for principal investigators (PIs), co-PIs and other senior project personnel. NSF uses this information to manage reviewer selection. The pilot standardizes the collection of this data across the Foundation and ensures that the information is submitted in a searchable format. This reduces the burden on NSF program staff who currently must spend time manipulating non-searchable files. Likewise, for the community, proposers can rest assured knowing that their format is acceptable to NSF. The new format requires PIs, co-PIs and other senior project personnel who are identified on the proposal to individually upload their Collaborators and Other Affiliations Information as a Single Copy Document which are only seen by NSF staff and not by reviewers.

Proposers will be directed to the new spreadsheet template while in FastLane. The template is fillable, and the content and format requirements must not be altered by the user. Proposers should not convert the file to PDF format prior to submitting the proposal to NSF, rather it should be completed and saved in .xlsx or .xls format to ensure preservation of searchable text, and uploaded into FastLane as a Single Copy Document. Using any other file format may delay the timely processing and review of the proposal. The template has been tested in Microsoft Excel,

Google Sheets and LibreOffice. In addition to benefiting the merit review process, this template provides a compliant and reusable format for PIs to maintain and update for use in subsequent proposal submissions to NSF. The new Collaborators and Other Affiliations pilot only applies to FastLane proposal submissions. Grants.gov proposal submissions shall continue to follow the instructions in the Grants.gov Application Guide, Chapter VI. 2.4. More information on https://www.nsf.gov/pubs/2017/nsf17084/nsf17084.pdf?WT.mc_id=USNSF_109

Webinar and Events

Event: IEEE Tech Insider Webinar: How Analytics can be used to Drive More Effective Business Decisions around Additive Manufacturing

When: August 15, 2017; 2.00 PM

Website: <http://spectrum.ieee.org/webinar/how-analytics-can-be-used-to-drive-more-effective-business-decisions-around-additive-manufacturing>

About the Webinar: The digitalization journey continues. From our foundation presentation “How Digitalization is transforming the Electronics Industry”, we continue along the connected journey to adopting a digitalization strategy. Manufacturers are increasingly looking to disruptive technologies like Additive Manufacturing to enable on demand production, produce components never before possible and reduce order to cash cycle time. Even though 3D Printers are more accessible than ever, moving from prototyping to meaningful volume production still requires a significant investment in capital, process change and retooling of personnel. Going beyond the basic technology of 3D printing, this session draws from recent collaboration between leading manufactures who are seeking to fully understand the “why” to additive manufacturing and how data analytics can be used to drive more effective business decisions. We believe a new data analytics approach to unify, contextualize and present simplified business insights for proper component/part selection has the potential to dramatically improve the return from 3D printing. All by focusing valuable capital resources to produce the right parts at the right time. Please join us while we take a deeper dive into some of the new and fascinating areas and technological advances that are transforming the electronics industry.

Speaker: Jeff Spencer is a Portfolio Development Executive at Siemens with over 22 years of industry experience in Big Data Analytics, 3D Design and Product Lifecycle Management.

Register at: Above URL.

Event: Information Webinar and Frequently Asked Questions (FAQ) for NHGRI IGNITE II RFAs: RFA-HG-17-008, RFA-HG-17-009 and RFA-HG-17-010

When: Thursday, August 17, 2017; 1.00 PM – 3.00 PM

Website: <https://grants.nih.gov/grants/guide/notice-files/NOT-HG-17-014.html>

About the Webinar: The intent of the webinar is to provide an overview of the initiatives and to answer questions from potential applicants pertinent to preparing applications. The webinar is optional (attendance is not required for application submission), and the webinar may conclude before the scheduled time depending on the number of questions. NHGRI staff will post information about how to participate in the Webinar (including conference call information) at <https://www.genome.gov/27569241/>. Prospective applicants are encouraged to submit their questions or comments regarding the RFAs to ebony.madden@nih.gov before August 17, 2017. Please indicate “IGNITE II RFA Pre-Application Webinar” in the subject line of your email.

Register: NHGRI staff will post information about how to participate in the Webinar at <https://www.genome.gov/27569241/>. Prospective applicants may ask additional questions during the Webinar, and NHGRI staff will respond to those questions. Following the Webinar, NHGRI will post slides from the webinar at the same URL.

Event: Pre-Application Webinar for the Common Fund Metabolomics Program Stage 2 FOAs (RFA-RM-17-011, RFA-RM-17-012, RFA-RM-17-013, and RFA-RM-17-014)

When: August 28, 2017; 12.00 PM

Website: <https://grants.nih.gov/grants/guide/notice-files/NOT-RM-17-036.html>

About the Webinar: The NIH Common Fund will hold a single pre-application interactive Q&A webinar August 28, 2017 from noon-1:30 PM EDT for the four Funding Opportunity Announcements (FOAs) for Stage 2 of the Common Fund Metabolomics Program ([RFA-RM-17-011](#), [RFA-RM-17-012](#), [RFA-RM-17-013](#), [RFA-RM-17-014](#)). NIH staff will discuss the overall structure and goals of the Metabolomics Program and the specific FOAs, and answer questions from prospective applicants. Pre-registration for the webinar is required and participants are asked to submit their questions ahead of time to the mailbox below. Participation in the webinar is optional. The slide set for the webinar is available on the [NIH Common Fund Metabolomics](#) webpage.

Register: To join the webinar, [pre-registration is required through WebEx](#). Please send advance questions by August 24, 2017 to CFMetabolomics@mail.nih.gov.

Event: Young Faculty Award (YFA) Proposers Day

When: Webcast on August 29, 2017 from 2:00 PM to 5:00 PM

Website: <https://www.fbo.gov/spg/ODA/DARPA/CMO/DARPA-SN-17-70/listing.html>

About the Webinar: The 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 DoD and National Security challenges and needs. In particular, 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. DARPA anticipates soliciting innovative research proposals in the areas of physical sciences, engineering, materials, mathematics, biology, computing, informatics, social science, robotics, neuroscience and manufacturing of interest to DARPA's Technology Offices.

Register: To join the webinar, register at <https://events.sa-meetings.com/YFAProposersDay>

Event: Emerging Frontiers in Research and Innovation Program - Informational Webinar

When: September 7, 2017 1:00 PM

Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=242816&org=NSF

About the Webinar: On Thursday, September 7th, from 1:00 to 2:30 pm Eastern time, the NSF Office of Emerging Frontiers and Multidisciplinary Activities (EFMA) will host a webinar to discuss the FY 2018 program solicitation of the [Emerging Frontiers in Research and Innovation \(EFRI\) program](#).

EFRI investigators pursue cutting-edge, interdisciplinary research with the potential for transformative impacts on national needs and grand challenges.

During this webinar, potential proposers to the program will be able to learn more about EFRI and ask questions about the [new EFRI solicitation](#).

The FY 2018 EFRI topics are:

- Chromatin and Epigenetic Engineering (CEE)
- Continuum, Compliant, and Configurable Soft Robotics Engineering (C3 SoRo)

Webinar attendance is limited, so prior registration is required. For those unable to watch the webinar live, the slides will be posted with a summary of questions and answers on this announcement after the meeting.

Register: To join the webinar, register at <https://tinyurl.com/EFRI-9-7-2017>

Grant Opportunities

National Science Foundation

Grant Program: Social, Behavioral & Economic Sciences (SBE) Postdoctoral Research Fellowships (SPRF)

Agency: National Science Foundation NSF 17-588

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17588/nsf17588.htm>

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: 15-20 Fellowships; **Anticipated Funding Amount:** \$3,000,000

Letter of Intent: Not Required

Proposal Submission Due Date: November 01, 2017

Contacts: Josie S. Welkom - Actg Program Officer, telephone: (703) 292-7376, email: jwelkom@nsf.gov

- Lisa M. Jackson - Program Specialist, telephone: (703) 292-7882, email: lmjackso@nsf.gov
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Grant Program: Japan-US Network Opportunity 2 (JUN02)

R&D for Trustworthy Networking for Smart and Connected Communities

Agency: National Science Foundation NSF 17-586

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17586/nsf17586.htm>

Brief Description: The Division of Computer and Network Systems (CNS) within the National Science Foundation's (NSF) Directorate for Computer and Information Science and Engineering (CISE) supports research and education activities that develop a better understanding of the fundamental properties of computer and network systems and to create better abstractions and tools for designing, building, analyzing, and measuring future systems. The Networking Technology and Systems (NeTS) program in the CNS division supports transformative research on fundamental scientific and technological advances leading to the development of future-generation, high-performance networks and future Internet architectures.

Under this umbrella, NSF and the National Institute of Information and Communications Technology (NICT) of Japan have agreed to embark on a collaborative research program to address compelling research challenges associated with enabling trustworthy networks supporting the Internet of Things (IoT) and cyber-physical systems (CPS). This NSF solicitation parallels an equivalent NICT solicitation. Proposals submitted under this solicitation must describe joint

research with counterpart Japanese investigators who are requesting funding separately under the NICT solicitation.

The IoT and CPS are becoming pervasive parts of everyday life, enabling a wide array of related emerging services and applications in cities and communities, including in health, transportation, energy/utilities, and other areas. As these systems become embedded in daily life, it is critically important that the networks underlying the services they provide be designed, built, deployed and operated in a highly trustworthy manner, i.e., that they are resilient against disasters, failures and other network disruptions. This program focuses on enabling ultra-high-availability, robust and reliable networks that can support continuity of service under duress. This requires consideration of end-to-end systems, including compute resources needed for services and applications, and creative and innovative ways of approaching the challenges outlined above. This program seeks joint Japanese-US research projects that leverage each nation's expertise and address the following work areas:

1. **Trustworthy IoT/CPS Networking**

Developing the foundations for a future resilient edge cloud/network system to ensure trustworthy end-to-end networks, addressing such factors as the heterogeneity, characteristics, resource constraints and potential mobility of end devices/sensors, the diversity of access network technologies, the availability/placement of computing resources and Quality of Service (QoS) requirements.

2. **Trustworthy Optical Communications and Networking**

Addressing the need for trustworthy, high-availability, agile optical edge/access and integrated optical/wireless networks that are resilient against disasters, large traffic surges and other major disruptions.

Awards: Standard Grants. **Anticipated Funding Amount:** \$2,250,000

Letter of Intent: Not Required

Proposal Submission Due Date: November 30, 2017

Contacts: Ann C. Von Lehmen, Program Director, CISE/CNS, telephone: (703) 292-4756, email: avonlehm@nsf.gov

- John Brassil, Program Director, CISE/CNS, telephone: (703) 292-8950, email: jbrassil@nsf.gov

Grant Program: Process Separations

Agency: National Science Foundation NSF PD 18-1417

RFP Website:

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505458&org=NSF&sel_org=NSF&from=fund

Brief Description: The **Process Separations** program is part of the Chemical Process Systems cluster, which includes also 1) Catalysis; 2) Process Systems, Reaction Engineering, and Molecular Thermodynamics; and 3) Energy for Sustainability.

The **Process Separations** program supports research focused on novel methods and materials for separation processes, such as those central to the chemical, biochemical, bioprocessing, materials, energy, and pharmaceutical industries. A fundamental understanding of the interfacial, transport, and thermodynamic behavior of multiphase chemical systems as well as quantitative descriptions of processing characteristics in the process-oriented industries is critical for efficient resource management and effective environmental protection. The program encourages proposals that address long standing challenges and emerging research areas and technologies, have a high

degree of interdisciplinary work coupled with the generation of fundamental knowledge, and the integration of education and research.

Research topics of particular interest include fundamental molecular-level work on:

- Design of scalable mass separating agents and/or a mechanistic understanding of the interfacial thermodynamics and transport phenomena that relate to purification of gases, chemicals, or water
- Design or improvement of mass separation agents or processes that are based upon, and advance, transport principles
- Downstream purification of biologically derived chemicals for increased throughput
- Field (flow, magnetic, electrical) induced separations and other innovative approaches that address a significant reduction in energy and/or materials requirements in the process industries

Proposals should address the novelty and/or [potentially transformative nature](#) of the proposed work compared to previous work in the field. Also, it is important to address why the proposed work is important in terms of engineering science, as well as to also project the potential impact on society and/or industry of success in the research. The novelty or potentially transformative nature of the research should be included, as a minimum, in the Project Summary of each proposal.

Faculty Early Career Development (CAREER) program proposals are strongly encouraged. Award duration is five years. The submission deadline for Engineering CAREER proposals is in July every year. Please see the CAREER URL [here](#) for more information.

Proposals for Conferences, Workshops, and Supplements: PIs are strongly encouraged to discuss their requests with the Program Director before submission of the proposal.

Grants for Rapid Response Research (RAPID) and EARLY-concept Grants for Exploratory Research (EAGER) are also considered when appropriate. Please note that proposals of these types must be discussed with the program director before submission. Further details are available in the **Proposal and Award Policies and Procedures Guide (PAPPG)** download found [here](#). **Grant Opportunities for Academic Liaison with Industry (GOALI)** proposals that integrate fundamental research with translational results and are consistent with the application areas of interest to each program are also encouraged. Please note that GOALI proposals must be submitted during the annual unsolicited proposal window for each program. More information on GOALI can be found [here](#).

Awards: Various

Letter of Intent: Not Required

Proposal Submission Due Date: Anytime but please see specific CBET program information on the NSF website.

Contacts: Angela Lueking alueking@nsf.gov (703) 292-2161

Grant Program: Innovations in Graduate Education (IGE) Program

Agency: National Science Foundation NSF 17-585

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17585/nsf17585.htm>

Brief Description: The Innovations in Graduate Education (IGE) program is designed to encourage the development and implementation of bold, new, and potentially transformative approaches to STEM graduate education training. The program seeks proposals that explore ways for graduate students in research-based master's and doctoral degree programs to develop the skills, knowledge, and competencies needed to pursue a range of STEM careers.

IGE focuses on projects aimed at piloting, testing, and validating innovative and potentially transformative approaches to graduate education. IGE projects are intended to generate the knowledge required for their customization, implementation, and broader adoption. The program supports testing of novel models or activities with high potential to enrich and extend the knowledge base on effective graduate education approaches.

The program addresses both workforce development, emphasizing broad participation, and institutional capacity building needs in graduate education. Strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, national laboratories, field stations, teaching and learning centers, informal science centers, and academic partners are encouraged.

Awards: Standard Grants. **Anticipated Funding Amount:** \$4,000,000

Limit on Number of Proposals per Organization: 2

An eligible organization may participate in two Innovations in Graduate Education proposals per competition. Participation includes serving as a lead organization on a non-collaborative proposal or as a lead organization, non-lead organization, or subawardee on a collaborative proposal. Organizations participating solely as evaluators on projects are excluded from this limitation. Proposals that exceed the institutional eligibility limit (beyond the first two submissions based on timestamp) will be returned without review regardless of the institution's role (lead, non-lead, subawardee) in the returned proposal.

Limit on Number of Proposals per PI or Co-PI: 1

An individual may serve as Lead Principal Investigator (PI) or Co-PI on only one proposal submitted to the IGE program per annual competition. Proposals that exceed the PI/Co-PI eligibility limit (beyond the first submission based on timestamp) will be returned without review regardless of the individual's role (PI or co-PI) in the returned proposal.

Internal Competition for Limited Submission: Pre-proposals in the following format (maximum 5 pages) should be submitted to respective dean's office by September August 25, 2017. Deans are requested to forward up to 2 pre-proposals with their recommendations to the Office of Research at dhawan@njit.edu by September 4, 2017. Two pre-proposals will be selected after institutional review by September 8, 2017.

Pre-proposal Format (maximum 5 pages):

8. Title and key personnel with affiliation
9. Project Summary (1-page)
10. Internal and External Collaboration
11. Intellectual Merit: Innovation in Graduate Education
12. Broader Impact
13. Performance Assessment/Project Evaluation
14. Tentative Budget Summary and Any Resources Needed

Letter of Intent: Not Required

Proposal Submission Due Date: October 25, 2017

Contacts: Laura B. Regassa, telephone: (703) 292-2343, email: lregassa@nsf.gov

- Tara L. Smith, telephone: (703) 292-7239, email: tsmith@nsf.gov
- Stephen Mulkey, telephone: (703) 292-8954, email: smulkey@nsf.gov

Grant Program: Discovery Research PreK-12 (DRK-12)

Agency: National Science Foundation NSF 17-584

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17584/nsf17584.htm>

Brief Description: The Discovery Research PreK-12 program (DRK-12) seeks to significantly enhance the learning and teaching of science, technology, engineering, mathematics and computer science (STEM) by preK-12 students and teachers, through research and development of STEM education innovations and approaches. Projects in the DRK-12 program build on fundamental research in STEM education and prior research and development efforts that provide theoretical and empirical justification for proposed projects. Projects should result in research-informed and field-tested outcomes and products that inform teaching and learning. Teachers and students who participate in DRK-12 studies are expected to enhance their understanding and use of STEM content, practices and skills.

The DRK-12 program invites proposals that address immediate challenges that are facing preK-12 STEM education as well as those that anticipate radically different structures and functions of preK-12 teaching and learning. The DRK-12 program has three major research and development strands: (1) Assessment; (2) Learning; and (3) Teaching. The program recognizes the synergy among the three strands and that there is some overlap and interdependence among them. However, proposals should identify a clear focus of the proposed research efforts (i.e., assessment, learning, or teaching) consistent with the proposal's main objectives and research questions. The program supports five types of projects: (1) Exploratory, (2) Design and Development, (3) Impact, (4) Implementation and Improvement, and (5) Conferences and Syntheses. All five types of projects apply to each of the three DRK-12 program strands.

Awards: Standard Grants. **Anticipated Funding Amount:** \$57,000,000

Letter of Intent: Not Required

Proposal Submission Due Date: November 14, 2017

Contacts: Inquiries can be made to, telephone: (703) 292-8620, email: DRLDRK12@nsf.gov

- David B. Campbell, telephone: (703) 292-5093, email: dcampbel@nsf.gov
- Julia V. Clark, telephone: (703) 292-5119, email: jclark@nsf.gov
- Catherine Eberbach, telephone: (703) 292-4960, email: ceberbac@nsf.gov

Grant Program: CISE Research Infrastructure (CRI)

Agency: National Science Foundation NSF 17-581

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17581/nsf17581.htm>

Brief Description: The CISE Research Infrastructure (CRI) program drives discovery and learning in the core CISE disciplines of the three participating CISE divisions by supporting the creation and enhancement of world-class research infrastructure that will support focused research agendas in computer and information science and engineering. This infrastructure will enable CISE researchers to advance the frontiers of CISE research. Further, through the CRI program, CISE seeks to ensure that individuals from a diverse range of academic institutions, including minority-serving and predominantly undergraduate institutions, have access to such infrastructure.

The CRI program supports two classes of awards:

- **Institutional Infrastructure (II)** awards support the creation of **new (II-NEW)** CISE research infrastructure or the **enhancement (II-EN)** of existing CISE research infrastructure to enable world-class CISE research opportunities at the awardee and collaborating institutions.
- **Community Infrastructure (CI)** awards support the **planning (CI-P)** for new CISE community research infrastructure, the **creation of new (CI-NEW)** CISE research infrastructure, the **enhancement (CI-EN)** of existing CISE infrastructure, or the **sustainment (CI-SUSTAIN)** of existing CISE community infrastructure to enable

world-class CISE research opportunities for broad-based communities of CISE researchers that extend well beyond the awardee institutions. Each CI award may support the operation of such infrastructure, ensuring that the awardee institution(s) is (are) well positioned to provide a high quality of service to CISE community researchers expected to use the infrastructure to realize their research goals.

Awards: Standard Grants. **Anticipated Funding Amount:** \$18,000,000

Letter of Intent: Not Required

Limit on Number of Proposals per Organization:

A university or organization may submit no more than three Institutional Infrastructure (II) proposals per competition. There is no limit on Community Infrastructure (CI) proposals per competition.

These eligibility constraints will be strictly enforced in order to treat everyone fairly and consistently. In the event that an institution or organization exceeds this limit, proposals received within the limit will be accepted based on the earliest date and time of proposal submission (i.e., the first three II proposals received will be accepted and the remainder will be returned without review). No exceptions will be made.

Internal LOI: If you are interested in submitting a proposal, please send a project summary with Intellectual Merit and Broader Impact to the Office of Research at dhawan@njit.edu as soon as possible but no later than October 1, 2017 to ensure compliance of limited submission.

Limit on Number of Proposals per PI or Co-PI: 2

In each annual competition, an individual may participate in at most two proposals, across all classes, as PI, Co-PI, or Senior Personnel.

These eligibility constraints will be strictly enforced in order to treat everyone fairly and consistently. In the event that an individual exceeds this limit, proposals received within the limit will be accepted based on the earliest date and time of proposal submission (i.e., the first two proposals received will be accepted and the remainder will be returned without review). No exceptions will be made.

Proposal Submission Due Date: November 2, 2017

Contacts: Harriet G. Taylor, Lead Program Director, 1175, telephone:(703) 292-8950, email: htaylor@nsf.gov

- Tao Li, Program Director, CCF, 1115, telephone:(703) 292-8238, email: taoli@nsf.gov
- Mimi McClure, Associate Program Director, CNS, 1145, telephone:(703) 292-8950, email: mmcclure@nsf.gov
- Wendy Nilsen, Program Director, IIS, 1125, telephone:(703) 292-2568, email: wnilsen@nsf.gov

Grant Program: Advancing Informal STEM Learning (AISL)

Agency: National Science Foundation NSF 17-573

RFP Website: <https://www.nsf.gov/pubs/2017/nsf17573/nsf17573.htm>

Brief Description: The **Advancing Informal STEM Learning (AISL)** program seeks to advance new approaches to and evidence-based understanding of the design and development of STEM learning opportunities for the public in informal environments; provide multiple pathways for broadening access to and engagement in STEM learning experiences; advance innovative research on and assessment of STEM learning in informal environments; and engage the public of all ages in learning STEM in informal environments.

The AISL program supports six types of projects: (1) Pilots and Feasibility Studies, (2) Research in Service to Practice, (3) Innovations in Development, (4) Broad Implementation, (5) Literature Reviews, Syntheses, or Meta-Analyses, and (6) Conferences.

Awards: Standard Grants. **Anticipated Funding Amount:** \$33,000,000

Limit on Number of Proposals per Organization: 3

An institution or organization may serve as lead on no more than three (3) proposals submitted to the November deadline. However, an institution or organization may partner as a subaward on other proposals submitted. Please inform the Office of Vice Provost for Research at dhawan@njit.edu by **September 1, 2017** with a summary including Intellectual Merit and Broader Impact sections if you intend to submit a proposal to this solicitation.

Letter of Intent: Not Required

Proposal Submission Due Date: November 06, 2017

Contacts: Address Questions to the Program, telephone: (703)292-8616, email: DRLAISL@nsf.gov

National Institutes of Health

Grant Program: CREATE Bio Optimization Track for Biologics (SBIR-U44)

Agency: National Institutes of Health PAR-17-457

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-17-457.html>

Brief Description: This Funding Opportunity Announcement (FOA) is part of a suite of complementary programs to encourage the translation of research discoveries into new treatments for disorders that fall under the NINDS mission.

The NINDS Cooperative Research to Enable and Advance Translational Enterprises for Biologics (CREATE Bio) program is dedicated to biotechnology product- and biologics-based therapies, which broadly include modalities such as peptides, proteins, oligonucleotides, gene therapies, cell therapies and novel emerging modalities. The program includes two tracks: the Optimization Track supports optimization in order to obtain a candidate appropriate for entering the Development Track, and the Development Track supports IND-enabling studies for the candidate. For entry into the Optimization Track, projects must have strong scientific rationale and demonstrate relevant, convincing in vivo data of one or more agent(s) that are sufficiently profiled so that the parameters to be optimized can be quantitatively specified (see entry criteria for details) in the application. At the end of the funding period, a candidate should be identified that has sufficient bioactivity, stability, manufacturability, bioavailability, in vivo efficacy and/or target engagement (measurement of target binding or proximal downstream effects) with defined minimal and optimal doses, and other favorable properties consistent with the desired clinical application (see Scope below for details).

Projects are funded through the SBIR U44 cooperative agreement award mechanism, which involves NINDS Scientific/Research staff's participation in developing the project plan, monitoring research progress, and establishing appropriate milestones. NINDS staff will also provide assistance to academic investigators in guiding them with the therapeutic development process and the criteria needed to advance therapeutic leads to the clinic.

For more information about earlier stage translational funding opportunities and programs, visit the [NINDS Division of Translational Research](#) website and, for more information specifically about the [CREATE Bio Program](#), visit the website. Applicants are strongly advised to read through the [CREATE Program FAQs](#).

Awards: Application budgets are not limited but must reflect the actual needs of the proposed project. Budgets for these projects will normally remain under \$700,000 total cost (direct costs, indirect costs, fee) per year in Phase I and \$4,000,000 total cost for Phase II (no more than \$1,500,000 in total costs per year in Phase II). Budget costs will likely fluctuate over the funding period based on the stage of the project.

Letter of Intent: Not Required

Deadline: February 13, 2018; July 18, 2018; February 13, 2019; July 18, 2019; February 13, 2020; and July 20, 2020, by 5:00 PM local time of applicant organization.

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: Point-of-Care Technologies Research Network Centers (U54)

Agency: National Institutes of Health PAR-17-453

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-17-453.html>

Brief Description: The network of POCTRN Research Centers will have broad expertise across many research areas and will cover multiple levels of technology readiness from proof of feasibility through products and procedures used in clinical practice (*See individual NIH Institute/Center Areas of Interest*). The scope of work covered within each Center will include 1) assessment and communication of unmet clinical needs in point-of-care testing; 2) collaborations with physical scientists, computational scientists, and engineers (as well as researchers from other relevant disciplines, as appropriate) on technology development projects; 3) development of external partnerships (e.g., technology, clinical, industry, and regulatory) necessary to move enabling technologies toward clinical applications; 4) clinical testing of prototype point-of-care devices and 5) creation of training opportunities for technology developers and other stakeholders on clinical issues related to the development of point-of-care devices. The POCTRN Research Centers provide support to point-of-care stakeholders through sub-awards and other resources (e.g. consultations, database tools, training modules, connections with clinical collaborators and providing de-identified clinical specimens for testing POC devices). A key component of the POCTRN Research Centers includes the ability to provide sub-award support for point-of-care projects that have significant potential to address clinical needs in point-of-care testing and for ultimate commercialization. It is expected that the POCTRN Research Center leadership will establish a review process, manage a solicitation and selection process for projects and the distribution of sub-award funds for point-of-care projects according to Center focus and milestones, budget period, availability of meritorious projects and the overall goal of transitioning functional prototypes out of the Center toward later- stage clinical testing and commercialization. Proposed technology development projects submitted in this application will be initiated at the onset of the grant award. The selection of future sub-award projects for funding beyond those presented in the initial grant application, will be made in consultation with the Scientific Officers and approved by the NIH Program Officer. The details of the full governance structure are provided in Section VI.2, "Cooperative Agreement Terms and Conditions of Award". Although Center institutions may receive funding for collaborative sub-award projects, it is expected that the majority of funds will be used to fund sub-award projects outside of the U54 awardee institution.

Organizational Structure

The structure of a POCTRN Research Center will consist of in-house scientific and point-of-care technological expertise and the clinical partnerships necessary to facilitate the identification and integration of enabling technologies into devices that address defined clinical needs. Each

POCTRN Research Center will be comprised of four Core Components: (1) Administrative (*Admin Core*); (2) Technology Development/Refinement (*Technology Dev Core*); (3) Clinical Translation and Validation (*Clinical Trans Valid*) and (4) Technology Training and Dissemination (*Technology Train Dis*).

1) *Admin Core*

The appropriate leadership and structure to manage the many facets of these large and complex Centers will be a key component in establishing a successful Center. The Admin Core serves as the managing component of the Center that is charged with effectively leading the organization, governance, collaboration within the Network, communication with stakeholders, as well as evaluation and continuous improvement in quality and efficiency of the Research Center by establishing an External Advisory Board (EAB). The EAB is appointed by the Center Program Director/Principal Investigator (PD/PI) and advises the PD/PI on future directions of the Center. The Center's Scientific Subcommittee of the Network Steering Committee will also provide scientific and administrative oversight of Center functions, including the review and selection of projects to receive sub-award funding.

2) *Technology Dev Core*

The Technology Dev Core identifies, evaluates and supports point-of-care technology development/refinement in-house and external to the Center. Support can be in the form of sub-awards, tools and/or other resources. It is expected that the project period for sub-awarded projects will be 6 months up to two years to allow for several technologies to be tested and moved into the next stage of clinical testing during the five-year grant period. Exceptions to this are possible if justification is provided for an extended project period. Therefore, adequate funds should be budgeted in later years of the grant period to allow for transitioning or retiring current projects and recruiting and selecting new technology development/refinement projects. The first round of sub-awards are to be made in Year one of the grant period. Although there is flexibility in the support amount and time periods of the sub-awards, 6 month awards at \$50,000 or 1 year at \$100,000 is suggested. The number of awards would depend on meritorious applications and the Center's goals and budget.

3) *Clinical Trans Valid Core*

Clinical validation, adoption, and feasibility testing are necessary to ensure that the prototypes supported under this program will have a reasonable rate of success for public uptake.

POCTRN Research Centers are expected to validate the prototypes, and undertake rigorous feasibility and adoption testing for the point-of-care devices in both clinical and "real-world" settings. Examples of intended-use settings include, but are not limited to, the integration of the point-of-care-technologies into clinical workflow (private offices and academic practices), within low-resource settings and among the intended users and/or caregivers. An important characteristic of funded Research Centers is therefore the ability to collaborate effectively with entities that possess the resources and expertise to commercialize the prototype devices developed through Research Center activities. Support for clinical translation can also be in the form of sub-awards, tools and/or other resources.

4) *Technology Train Dis Core*

The Technology Train Dis Core provides training activities for point-of-care technology stakeholders such as scientists, engineers, clinicians and other medical professionals, patients, policy makers and investors. Within the Technology Train Dis Core, the Research Centers will also conduct assessments of clinical and user needs to inform device design and further define and disseminate publicly available clinical needs information.

Awards: Application budgets are not limited but it is strongly recommended that applicants not request a budget of more than \$1.2M in direct costs per year. Facilities and administrative costs requested by consortium participants are not included in the direct cost limitation.

Letter of Intent: 6 weeks prior to the application due date

Deadline: October 27, 2017, 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: NIBIB Exploratory/Developmental Research Grant Program (R21)

Agency: National Institutes of Health PAR-17-441

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PA-17-441.html>

Brief Description: Cutting-edge research in the biomedical, behavioral, clinical sciences and technologies requires new ideas, techniques, and points of view. Such ideas may differ substantially from current thinking or practice. The NIBIB seeks to foster these new scientific bioengineering and imaging ideas, model systems, tools, agents, targets, and technologies through the Exploratory/Developmental Research Grant Program. More detail on our program areas can be found at <https://www.nibib.nih.gov/research-funding>.

This program is specifically intended to encourage exploratory or developmental projects. These studies may involve considerable risk, but are expected to lead to breakthroughs in novel techniques, agents, methodologies, models, or their applications that could have a major impact on human-health and related research.

These R21 applications must not include preliminary data that demonstrate the feasibility of the specific aims. *Applications including preliminary data will be considered noncompliant with the FOA instructions and will not go forward to review.* Availability of preliminary data demonstrating feasibility of the proposed approach is an indication that the proposed project has advanced beyond the exploratory stage defined by this program, and makes the application unsuitable for this funding opportunity. Appropriate justification for the proposed work can be provided through literature citations and data from other sources.

Exploratory/Developmental Research Grant applications should be exploratory and novel, distinct from those supported through the traditional R01 activity code. For example, long-term projects, or projects designed to increase knowledge in a well-established area, are not appropriate for this FOA. Studies submitted to this FOA should break new ground or take previous discoveries in new directions.

Applications for R21 awards should propose projects distinct from those supported through the traditional R01 mechanism, which are generally longer-term systematic investigations supported by extensive preliminary data. R21 applications should have well-defined goals with the potential for future development. It is expected that successful projects would go on to further development under other funding mechanisms, such as the R01. Not all research endeavors will be suitable for this FOA. Projects from Investigators that are supported by preliminary data should be submitted to the Parent R01 FOA (<https://grants.nih.gov/grants/guide/pa-files/PA-16-160.html>) or the Bioengineering Research Grant FOA (<https://grants.nih.gov/grants/guide/pa-files/PA-16-242.html>).

Awards: Application budgets may not exceed \$275,000 direct costs over a maximum two-year funding period. No more than \$200,000 in direct costs may be requested in any single year.

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.

Grant Ethical, Legal, and Social Implications (ELSI) of Genomics Exploratory/Developmental Research Grant Program (R21) (R01) (R03)

Agency: National Institutes of Health PAR-17-446

[PA-17-444, R01 Research Project Grant](#)

[PA-17-445, R03 Small Grant Program](#)

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PA-17-446.html>

Brief Description: Continuing advances in genomic technology coupled with lowered sequencing costs have rapidly increased the numbers of people being sequenced, and are transforming biomedical research. As knowledge of relationships between genetic variation and human diseases and traits proliferates, the distinctions between basic and clinical genomic research blur, and new findings are altering the practice of medicine. Meanwhile information technologies - including personal mobile devices, patient health portals, electronic health records, and cloud storage - are influencing the ways an individual's genomic data are stored, analyzed, shared, and used in commercial, biomedical and non-medical settings. Taken together these developments may have profound effects on many long-standing societal beliefs and norms. The purpose of this FOA is to solicit exploratory or developmental research applications that identify, analyze, and address the ethical, legal and social implications (ELSI) of these genetic and genomic advances for individuals, families, communities and society more broadly.

To address the broad scope and reach of genomic advances in society, applications are invited from investigators representing a wide range of disciplines, including but not limited to ethics, genetics and genomics, clinical medicine, law, health services research, public health, bioinformatics and health information sciences, behavioral and social sciences (e.g., psychology, sociology, anthropology, political science, economics, communication science) and the humanities (e.g., history, religion, philosophy, literature).

Applications may propose multi-disciplinary studies using either single or mixed methods. Proposed methods may include but are not limited to data-generating qualitative and quantitative approaches, legal, economic and normative analyses, and other types of analytical and conceptual research methodologies, such as those involving the direct engagement of stakeholders.

Applications to this FOA should propose exploratory or developmental studies that can be accomplished in two years. Often these applications perform pilot or feasibility studies or are used to generate data in preparation for a larger study

For very small projects, such as those involving single investigators, applicants may wish to consider [PA-17-445](#), the ELSI Small Grant (R03) FOA, which provides a total of up to \$50,000 in direct costs a year for two years. For larger multi-disciplinary studies that are building on preliminary data and require funding beyond two years, applicants may wish to consider [PA-17-444](#), the ELSI Research Project Grant (R01) FOA, which provides funding for up to five years..

Awards: Direct costs are limited to \$275,000 over the two-year project period, with no more than \$200,000 in direct costs allowed in any single year.

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.

Grant Program: Exploratory/Developmental Investigations on Primary Immunodeficiency Diseases (R21)

Agency: National Institutes of Health PAR-17-333

RFP Website: <https://grants.nih.gov/grants/guide/pa-files/PAR-17-333.html>

Brief Description: This FOA will support a wide range of innovative, exploratory and/or developmental research on primary immunodeficiency diseases. Research areas supported by this FOA include, but are not limited to:

- Identifying the clinical, immunological, genetic and molecular characteristics of genetically determined immunodeficiency diseases;
- Identifying the molecular basis of primary immunodeficiency diseases;
- Advancing our understanding of how a genetic variant results in immunodeficiency;
- Discovering/developing improved diagnostic/newborn screening tools for primary immunodeficiency diseases;
- Performing *ex vivo* studies with human specimens
- Discovering/developing new animal models for primary immunodeficiency diseases; and
- Analyzing clinical data and samples maintained in primary immunodeficiency registries, consortium databases and repositories to address questions relevant to primary immunodeficiency research.

Other research areas supported by this FOA include studies of novel therapeutic approaches for treatment of primary immunodeficiency diseases to:

- Improve and better understand existing treatments of primary immunodeficiency diseases;
- Understand complications associated with primary immunodeficiency diseases;
- Define environmental or other triggers that result in complications in individuals with primary immunodeficiency diseases; and
- Identify and validate biomarkers for primary immunodeficiency diseases.

Research areas NOT appropriate for this FOA include studies of:

- Immunodeficiency resulting from infection (e.g., HIV);
- Immunodeficiency resulting from treatments (e.g., chemotherapy), exposures (e.g., radiation), immunosuppression following transplantation, or autoimmune disorders;
- Immunodeficiency resulting from aging or immaturity; and
- Basic immunologic mechanisms unless related to understanding of primary immunodeficiency diseases.

Awards: Direct costs are limited to \$275,000 over the two-year project period, with no more than \$200,000 in direct costs allowed in any single year.

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.

Department of Defense/US Army/DARPA/ONR

Grant Program: Breast Cancer Research Program Innovator Award

Agency: Department of Defense Congressionally Directed Medical Research Programs

W81XWH-17-BCRP-INNOV2

Website: <http://cdmrp.army.mil/funding/pa/FY17-BCRP-IA.pdf>

Brief Description: The BCRP has prepared a brief overview, The Breast Cancer Landscape, that describes what is currently known about the most pertinent topics that are consistent with the BCRP's vision of ending breast cancer. Applicants are strongly urged to read and consider The Breast Cancer Landscape before preparing their applications. The Landscape may be found at http://cdmrp.army.mil/bcrp/pdfs/bc_landscape.pdf

The Innovator Award supports visionary individuals who have demonstrated exceptional creativity, innovative work, and paradigm-shifting leadership in any field including, but not limited to, breast cancer. The Innovator Award will provide these individuals with the funding and freedom to pursue their most novel, visionary, high-risk ideas that could accelerate progress to ending breast cancer. Because the intent of the Innovator Award mechanism is to recognize these remarkably creative and innovative visionary individuals, rather than projects, the central feature of the award is the innovative contribution that the Principal Investigator (PI) can make toward ending breast cancer. The PI should have a record of challenging the status quo, shifting paradigms by changing a field of research or approach to patient care, exhibiting high levels of creativity, and demonstrating promise for continued innovation in future work. These rare individuals will be able to articulate a vision for ending breast cancer that challenges current dogma and demonstrates an ability to look beyond tradition and convention. The PI is also expected to be established in his/her field and have demonstrated success at forming and leading effective partnerships and collaborations. To further the development of innovative individuals and spark the generation of novel ideas, applications are required to incorporate the mentoring of promising junior investigators. Experience in breast cancer research is not required; however, the application must focus on breast cancer, and the PI must maintain a 50% dedication of his/her full-time professional effort during the award period to breast cancer research. This professional effort in breast cancer research can be through a combination of this award and other current support. Individuals from other disciplines who will apply novel concepts to breast cancer are encouraged to submit. The PI is expected to assemble a research team that will provide the necessary expertise and collaborative efforts toward accomplishing the research goals. The PI's research team must include two or more breast cancer consumer advocates. As lay representatives, the consumer advocates must be individuals who have been diagnosed with breast cancer and are actively involved in a breast cancer advocacy organization. Their role should be independent of their employment, and they cannot be employees of any of the organizations participating in the application. The consumer advocates should have a high level of knowledge of current breast cancer issues and the necessary background or training in breast cancer research to contribute to the project. Their role should be focused on providing objective input on the research and its potential impact for individuals with, or at risk for, breast cancer.

Awards: Standard Grants

Proposal Deadline:

Pre-Application Submission Deadline: 5:00 p.m. Eastern time (ET), September 29, 2017

Invitation to Submit an Application: November 1, 2017

Application Submission Deadline: 11:59 p.m. ET, December 21, 2017

Confidential Letters of Recommendation Submission Deadline: 5:00 p.m. ET, December 27, 2017

Grant Program: DoD, Peer Reviewed Alzheimer's Research

Agency: Department of Defense

W81XWH-17-PRARP-RPA	DoD Peer Reviewed Alzheimer's, Research Partnership Award
W81XH-17-PRARP-CSRA	DoD, Peer Reviewed Alzheimer's
W81XWH-17-PRARP-QUAL	DoD Peer Reviewed Alzheimer's, Quality of Life Research Award
W81XWH-17-PRARP-NIRA	DoD Peer Reviewed Alzheimer's, New Investigator Research Award

Website: <http://cdmrp.army.mil/prarp/default>

Brief Description: Several Research Topics in Basic Research: The FY17 Defense Appropriations Act provides \$15 million (M) to the Department of Defense Peer Reviewed Alzheimer's Research Program (PRARP) to support research which addresses the long-term consequences of traumatic brain injury (TBI) as they pertain to Alzheimer's disease (AD) and related dementias (ADRD). The research impact will benefit the military, Veteran, and civilian communities. The PRARP's mission is devoted to (1) understanding the association between traumatic brain injury (TBI) and Alzheimer's disease (AD)/Alzheimer's disease-related dementias (ADRD) and (2) reducing the burden on affected individuals and caregivers, especially in the military and Veteran communities. Consistent with the PRARP's mission and vision, the program faces 6 overarching challenges for FY17. These overarching challenges represent longstanding research goals for the program:

- **Paucity of Research Resources:** The paucity of research resources to examine the interrelationship between TBI and subsequent AD/ADRD for the military, Veteran, and civilian communities.
- **Paucity of Clinical Studies:** The paucity of clinical studies to examine the interrelationship between TBI and subsequent AD/ADRD for the military, Veteran, and civilian communities. This includes research into risk factors which may predispose individuals to AD/ADRD subsequent to TBI.
- **Diagnostic Technologies, Tests, Biomarkers, or Devices:** The need for technologies, tests, or devices to detect or prognose the progression to AD/ADRD subsequent to TBI. This includes research into risk factors which may predispose individuals to AD/ADRD subsequent to TBI.
- **Quality of Life:** The need for technologies, assessments, interventions, or devices to benefit individuals living with the common symptoms or deficits of TBI and AD/ADRD.
- **Caregiver Burden:** The need for technologies, assessments, interventions, or devices with the goal of reducing burden for caregivers of individuals living with the common symptoms or deficits of TBI and AD/ADRD.
- **Epidemiology:** The paucity of epidemiological research to examine the interrelationship between TBI and subsequent AD/ADRD for the military, Veteran, and civilian communities. This includes research into risk factors which may predispose individuals to AD/ADRD subsequent to TBI.

Awards: Standard Grants

Proposal Deadline: September 20, 2017; May need earlier submission of white paper.

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

Grant Program: FY2018 Basic Research Challenge (BRC) Program

Agency: Department of Defense ONR N00014-17-S-BA13

Website: <https://www.onr.navy.mil/en/Contracts-Grants/Funding-Opportunities/Broad-Agency-Announcements>

Brief Description: Several Research Topics in Basic Research: Potential fundamental science questions resolved by this BRC would be (1) is quantum wavefunction collapse an objective feature of quantum systems?, (2) are quantum models beyond the Schrodinger equation necessary?, (3) are quantum translational and rotational friction experimentally observable?, (4) are there short-range corrections to the gravitational constant G?, and (5) how does the Casimir force scale from the nano- to microscale, and how/why does it change from attractive to repulsive? The technology developed to address these questions will have the added benefit of realizing a variety of novel sensors. Research Concentration Area: (1) quantum foundations – experimentally explore quantum/classical boundary, test for quantum translational and rotational friction; (2) quantum information - approaches for leveraging spins and levitated particles for information processing; (3) precision measurement - interrogate gravity corrections and Casimir forces at short length scales; (4) thermodynamics/statistical mechanics - exquisite control to constrain dynamics and then follow microscopic trajectories to build up ensemble averages; and (5) material spectroscopy - levitating objects removes substrate induced effects in performing spectroscopy and microscopy on materials, which is especially crucial for nanomaterials.

Also includes:

This BRC program requires a multidisciplinary integrated computational, experimental, and multi-scale characterization effort including, but not limited to, (1) high-throughput CALPHAD computations of phase equilibria/non-equilibrium solidification; (2) high-throughput experiments using materials libraries with microstructural gradients; (3) deformation, strengthening modeling and validation; (4) multi-scale microstructural characterization; (5) phase stability/phase transformation kinetics; (6) lattice distortions and dislocations; (7) materials synthesis/characterization; and (8) multi-scale mechanics. Possible performers would most likely be a small research group with interdisciplinary expertise in quantum chemistry, materials science, materials informatics, interfacial and surface science, mechanics, 2D, 3D, and 4D atomistic computational simulations and modeling, statistical mechanics, molecular dynamics, phase-field modeling, non-equilibrium processing, CALPHAD and multi-scale thermodynamic and kinetic computational tools. These multi-scale modelling efforts would be validated and verified using state-of-the-art atomic-scale analytical tools.

Awards: Standard Grants

Proposal Deadline:

White Papers: Friday, 18 August 2017; Full Proposals: Friday, 17 November 2017

Contact Information:

Dr. Reginald Williams Basic Research Challenge (BRC) Program Manager Code 03R Office of Naval Research 875 North Randolph Street Arlington VA 22203-1995 reginald.g.williams@navy.mil

Grant Program: CENTER OF EXCELLENCE: Trusted Human-Machine Teaming

Agency: Department of Defense AFOSR

Website: <http://www.wpafb.af.mil/Welcome/Fact-Sheets/Display/Article/842050/>

Brief Description: The Air Force Office of Scientific Research (AFOSR) seeks unclassified proposals from educational institutions in the United States for a University Center of Excellence

(UCoE) in in Trusted Human-Machine Teaming. Proposals must not contain any proprietary information. This center is a joint project between the Air Force Office of Scientific Research and the Air Force Research Laboratory, Airman Systems Directorate (AFRL/RH), referred to collectively as “we, our, or us” in this announcement. The center will extend the research capabilities of the Air Force Research Laboratory, and provide opportunities for a new generation of United States scientists and engineers to address the basic research needs of the Air Force.

We will consider proposals for up to five (5) years with a three-year (3) base period and a two-year (2) option period. of Interest across the lifespan of an individual with ASD, are of particular importance to the ARP.

Awards: Up to \$5,000,000

Proposal Deadline: August 18, 2017

Contact Information:

DR. BENJAMIN KNOTT, AFOSR/RTA2

Trust and Influence Program

Telephone: (703) 696-1142

Email: benjamin.knott.2@us.af.mil

DR. ERICA JOHNSON, AFRL/711 HPW/RHCP

Applied Neuroscience Branch

Telephone: (937) 938-3569

Email: erica.johnson.7@us.af.mil

Department of Energy

Grant Program: Advanced Manufacturing Graduate-Level Traineeships

Agency: Department of Energy DE-FOA-0001790

Website: <https://eere-exchange.energy.gov/#Foald365cf14b-d1bc-40f9-9a35-08a8d336d4e7>

Brief Description: Through this Funding Opportunity Announcement (FOA), DOE intends to fund university-led Traineeship Programs that address workforce training needs in the early-stage technology area of advanced materials and process technologies of high importance to manufacturing. The following objectives guide the Office of Energy Efficiency and Renewable Energy (EERE) Advanced Manufacturing Office’s (AMO) traineeship efforts:

- Advance the DOE mission – Traineeship programs are designed and implemented to advance specific Science, Technology, Engineering and Math (STEM) workforce competencies required for the DOE’s unique mission to ensure America’s security and prosperity by addressing its science and energy challenges, particularly with regard to advanced manufacturing.
- Address priority STEM workforce needs and identified gaps in early-stage advanced manufacturing technology – Traineeship programs focus on advancing those critical STEM disciplines and competencies specifically relevant to the AMO missions where other U.S. Government or academic workforce development programs either do not exist or where DOE-relevant early-stage technology areas are not being leveraged to support specific DOE mission responsibilities.

The high priority topic identified in this traineeship program is advanced manufacturing (advanced materials and process technologies in manufacturing).

Award: EERE expects to make approximately \$2,500,000 of Federal funding available for new awards under this FOA, subject to the availability of appropriated funds. EERE anticipates making

approximately 1-2 awards under this FOA. EERE may issue one, multiple, or no awards. Individual awards may vary between \$1,250,000 and \$2,500,000.

Proposal Deadline:

- Concept Paper Submission Deadline: 8/8/2017 5:00 PM ET
- Full Application Submission Deadline: 9/13/2017 5:00 PM ET

Contact Information: EERE-ExchangeSupport@hq.doe.gov

Grant Program: Technology Development to Ensure Environmentally Sustainable CO2 Injection Operations

Agency: Department of Energy DE-FOA-0001725

Website:

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

Brief Description: This FOA seeks applications on research to develop techniques, tools, and methodologies that improve detection and assessment of CO2 stored in the target reservoir. Research products developed under this FOA are expected to include monitoring tools and techniques, as well as validation of models and modeling techniques. Successful technologies developed under this FOA will decrease the operator's financial burden associated with long-term monitoring by providing them the capability to assess the position of the CO2 plume in the target reservoir with greater certainty throughout the life cycle of the project (i.e., active- and post-injection).

Award: Up to \$2,000,000

Proposal Deadline: August 11, 2017

Contact Information:

K. Young 412-386-4402 bethan.young@netl.doe.gov

NASA

Grant Program: ROSES 2017: Discovery Data Analysis

Agency: NASA NNH17ZDA001N-DDAP

Website:

<https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B410D2803-9FFE-F7D0-2CDA-6AABC9664AF5%7D&path=open&method=init>

Brief Description: The objective of the Discovery Data Analysis Program (DDAP) is to enhance the scientific return of Discovery Program missions and broaden the scientific participation in the analysis of data, both recent and archived, collected by Discovery missions.

Sources and Analysis of Mission Data: Spacecraft data used in DDAP investigations must be available in the Planetary Data System (PDS; <http://pds.nasa.gov/>), or equivalent publicly accessible archive(s), at least 30 days prior to the Step-2 submission deadline for DDAP proposals. Spacecraft data that have not been placed in such archives are not eligible for use in DDAP investigations. In all cases, it is the responsibility of the DDAP investigator to acquire any necessary data. Investigators are encouraged to contact the archive for assistance in identifying specifics of available datasets. Datasets to be used in the proposed work must be clearly and specifically identified in the proposal. Regardless of the archive(s) used, if the data to be analyzed have known issues that might represent an obstacle to analysis, the proposers must demonstrate clearly and satisfactorily how such potential difficulties will be overcome.

Awards: Up to 4-years award

Proposal Deadline: DDAP17 Step-1 Proposal: September 07, 2017

Contact: Thomas S. Statler Planetary Science Division Science Mission Directorate NASA Headquarters Washington, DC 20546-0001 Email: thomas.s.statler@nasa.gov Telephone: 202-358-0272

Grant Program: ROSES 2017: Rosetta Data Analysis

Agency: NASA NNH17ZDA001N-RDAP

Website:

<https://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=553869/solicitationId=%7BD8115F8F-DEFA-99CB-067C-742F41316A08%7D/viewSolicitationDocument=1/C.20%20RDAP.pdf>

Brief Description: The objective of the Rosetta Data Analysis Program (RDAP) is to enhance the scientific return of the Rosetta mission and broaden the scientific participation in the analysis of archived data collected from the Rosetta and Philae spacecraft.

Sources and Analysis of Mission Data: Spacecraft data used in RDAP investigations must be available in the Planetary Data System (PDS; <http://pds.nasa.gov/>), or equivalent publicly accessible archive(s), at least 30 days prior to the Step-2 submission deadline for RDAP proposals. Spacecraft data that have not been placed in such archives are not eligible for use in RDAP investigations. In all cases, it is the responsibility of the RDAP investigator to acquire any necessary data. Investigators are encouraged to contact the archive for assistance in identifying specifics of available datasets. Datasets to be used in the proposed work must be clearly and specifically identified in the proposal. Regardless of the archive(s) used, if the data to be analyzed have known issues that might represent an obstacle to analysis, the proposers must demonstrate clearly and satisfactorily how such potential difficulties will be overcome. Proposals to RDAP must include a science investigation. Proposals to produce a higher order data product that enhances the science return from Rosetta, but does not include a science investigation, should be submitted to the Planetary Data Archiving, Restoration, and Tools (PDART) Program (program element C.7). Proposed work responsive to this call may include (1) data analysis tasks, (2) tasks that are not data analysis but are necessary to analyze or interpret the data, and (3) tasks that are not data analysis but that significantly enhance the use or facilitate the interpretation of Rosetta data. These tasks may incorporate theory, modeling, laboratory studies, correlative analyses, and/or other research; however, proposals that include tasks that are not data analysis must also incorporate the results of these tasks into the analysis or interpretation of Rosetta mission data in order to be responsive to this call.

Awards: Up to 4-years award

Proposal Deadline: RDAP17 Step-1 Proposal: September 07, 2017

Contact: Thomas S. Statler Planetary Science Division Science Mission Directorate NASA Headquarters Washington, DC 20546-0001 Email: thomas.s.statler@nasa.gov Telephone: 202-358-0272

National Endowment of Humanities

Grant Program: Summer Awards**Agency: National Endowment of Humanities****Website:** <https://www.neh.gov/grants/research/summer-stipends>

Brief Description: Summer Stipends support individuals pursuing advanced research that is of value to humanities scholars, general audiences, or both. Eligible projects usually result in articles, monographs, books, digital materials and publications, archaeological site reports, translations, or editions. Projects must not result solely in the collection of data; instead they must also incorporate analysis and interpretation.

Summer Stipends support continuous full-time work on a humanities project for a period of two consecutive months. Summer Stipends support projects at any stage of development.

Awards: \$6,000 stipend.**Proposal Deadline: September 27, 2017 for Projects Beginning May 2018****Contact:** Contact NEH's Division of Research Programs at 202-606-8200 or stipends@neh.gov.**Burroughs Welcome Fund****Grant Program: BWF's Career Awards at the Scientific Interface****Agency: Burroughs Welcome Fund****Website:** <https://www.bwfund.org/grant-programs/interfaces-science/career-awards-scientific-interface>

Brief Description: These grants are intended to foster the early career development of researchers who have transitioned or are transitioning from undergraduate and/or graduate work in the physical/mathematical/computational sciences or engineering into postdoctoral work in the biological sciences, and who are dedicated to pursuing a career in academic research. Scientific advances such as genomics, quantitative structural biology, imaging techniques, and modeling of complex systems have created opportunities for exciting research careers at the interface between the physical/computational sciences and the biological sciences. Tackling key problems in biology will require scientists trained in areas such as chemistry, physics, applied mathematics, computer science, and engineering.

Application Process:

The competition will employ a two-stage process. Pre-proposals will be reviewed and full proposal invitations will be sent by November 14, 2017.

All applicants will be required to complete a web-based questionnaire assessing their eligibility to apply for this award. If eligibility criteria are met, applicants will be automatically directed to the web-based pre-proposal application.

Awards: BWF's Career Awards at the Scientific Interface (CASI) provide \$500,000 over five years to bridge advanced postdoctoral training and the first three years of faculty service. These awards are open to U.S. and Canadian citizens or permanent residents as well as to U.S. temporary residents

Proposal Deadline: Sept. 6, 2017: Pre-proposal deadline

Nov. 14, 2017: Invitations sent

Jan. 10, 2018: Full proposal deadline

Mar. 23, 2018: Finalists notified

Apr. 25-26, 2018: In-person interviews

Contact: [Rusty Kelley, Ph.D.](mailto:Rusty.Kelley@njit.edu), Program Officer, 919-991-5120For more information, please also contact Eric Blitz, Associate Director for Development Corporate and Foundation Relations, eric.blitz@njit.edu

Simon Foundation

Grant Program: Simons Grants for Sabbaticals in Math and Theoretical Physics

Agency: Simon Foundation

Website: <https://www.simonsfoundation.org/funding/funding-opportunities/mathematics-physical-sciences/simons-fellow-program/>

Brief Description: *Grants awarded will be restricted to sabbatical-eligible faculty who wish to use the grant for the purpose of extending a single term sabbatical leave to a full academic year.*

Proposal Deadline: September 28, 2017

Contact: For more information, please also contact Eric Blitz, Associate Director for Development Corporate and Foundation Relations, eric.blitz@njit.edu

Streamlyne Update

513 proposals were submitted in FY17. Since January 17, 307 proposals were submitted through streamline. In the last quarter (April-July), 34 proposals were submitted through the System-to-System (S2S) Streamlyne-Grants.gov module. New “How to Do” videos have been posted on the research website <http://www5.njit.edu/research/streamlyne/>. These videos show step-by-step process on the following tasks:

- ◆ [How to Begin Proposal Submission in Streamlyne](#)
- ◆ [How to Input Proposal Budget](#)
- ◆ [How to Process Approvals](#)
- ◆ [How to Upload Proposal Attachments](#)

In addition, most Frequently Asked Question (FAQs) from PIs are posted with answers on the same website as [Streamlyne FAQs](#)

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

Nancy Henderson, CCS Project Manager
973-596-5687; nancy.henderson@njit.edu

Iris Pantoja, CoAD and SOM Project Manager
973-596-4483; irp3@njit.edu
