NJIT Research Newsletter

Issue: ORN-2017-41

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

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Grant Opportunity Alerts

Keywords and Areas Included in the Grant Opportunity Alert Section Below

NSF: Re-entry to Active Research Program (RARE); Critical Resilient Interdependent Infrastructure Systems and Processes 2.0 (CRISP 2.0); Smart and Connected Communities (S&CC); National Robotics Initiative 2.0: Ubiquitous Collaborative Robots (NRI-2.0); Resource Implementations for Data Intensive Research in the Social, Behavioral and Economic Sciences (RIDIR); Training-based Workforce Development for Advanced Cyberinfrastructure (CyberTraining); Innovation Corps - National Innovation Network Teams Program (I-CorpsTM)
NIH: Promoting Research in Basic Neuroscience (R01); NIH Research Project Grant (R01); Clinical and Translational Science Award (U54); NINDS Advanced Postdoctoral Career Transition Award to Promote Diversity in Neuroscience Research (K22); Centers of Excellence for Translational Research (CETR) (U19); Research on Autism Spectrum Disorders (R21); NCMRR Early Career Research Award (R03); Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grant (Parent T35); mHealth Tools for Individuals with Chronic Conditions to Promote Effective Patient-Provider Communication, Adherence to Treatment and Self-Management (R21)
Department of Defense/US Army/DARPA/ONR: FY18 FOA for the Office of Naval Research (ONR) Navy and Marine Corps Science, Technology, Engineering & Mathematics (STEM), Education and Workforce Program; Research Interests at AFOSR
Department of Energy: Solar Desalination; State Energy Program 2017 Competitive Awards
NASA: ROSES 2017: Advancing Collaborative Connections for Earth System Science
National Endowment of Humanities: Digital Humanities Advancement Grants
Elsa U. Pardee Foundation: Theoretical and Computational Astrophysics Networks
Klingenstein-Simons Neuroscience Fellowships: Fellowship Awards in the Neurosciences
Boston Globe Life Sciences Media: Innovative Research Development in Health/Medicine Prize
JDRF and the Helmsley Charitable Trust: Diabetes Innovation Challenge
Streamlyne Update: New How-to-do Videos

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Special Announcement

Change of Grants.gov Software for Proposal Submission to NIH

Beginning January 1, 2018, all grant applicants must use Workspace to submit applications through Grants.gov. Office of Research and IST staff members have updated the Streamlyne system to align with Grants.gov Workspace system for submission of proposals to NIH. Since the response from Workspace system would be a learning experience for everyone, it is critical that timeline for proposal submission policy is completely followed to allow enough time for addressing any error or system delays. Faculty and staff submitting proposals as Principal Investigators are requested to work with Office of Research ambassadors and staff to following the following timeline:

- 2 weeks before due date the budget should be finalized and the approval proposal process should be initiated. This includes the Department approval and conflict of interest forms with the PI's and Department Chair's signature, the detailed budget and justification, proposal title, and preliminary specific aims (NIH), proposal summary (NSF), or contract scope of work (SOW).
- 1 week before the due date, all approvals should be entered in the Streamlyne system
- 72 hours prior to submission the SRA will initiate a proposal review and check for submission errors. For this to occur, all portions of the proposal should be completed and ready for submission with the exception of the proposal narrative. Only a draft of the proposal is needed at this point as a place holder for error checking.
- 48 hours prior to the deadline, the PI should release the final version of the proposal to the SRA office for final system validation and on-time submission.

Any questions should be directed to ambassadors or Office of Research staff as listed at the end of this newsletter.

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Recent Research Grant and Contract Awards

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

PI: Pramod Abichandani (PI)
Department: Engineering Technology
Grant/Contract Project Title: NJIT Simultaneous Tracking and Optimal Resource Management (STORM)
Funding Agency: Lockheed Martin
Duration: 01/01/18-12/31/18

PI: Mesut Sahin (PI)
Department: Biomedical Engineering
Grant/Contract Project Title: Underlying Mechanisms of Cerebellar tDCS
Funding Agency: NIH
Duration: 01/01/18-12/31/18

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In the News...

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

Late Support For Grad Students: The website of Rep. Pete Session (R-Tex.) touts his support for the GOP's "pro-growth, bold" tax bill. But this week, the lawmaker sent a letter to congressional leaders urging them to remove a provision from the bill that would subject graduate students' waived tuition to taxation. "Taxing graduate tuition waivers would not only harm students but also adversely impact the United States' technological position," the letter states. "In 2011- 12, 57% percent of waiver recipients were graduate students in science, technology, engineering, and math. A policy that increases students' costs would discourage our nation's brightest minds from developing greater expertise in their area of study and engaging in leading-edge research." Rep. Daniel Lipinski (D-Ill.) has circulated a similar letter, noting that, for example, "the University of Illinois estimates that its graduate students receiving tuition waivers would see their taxable income increase by $19,000 on average."

$250 Million Raised by I-Corps Programs: $250 Million of seed capital is raised by 450 start-ups developed from Innovation Corps (I-Corps) teams. Launched by former National Science Foundation director Subra Suresh and continued by his successor, France Córdova, the program is expanding, NSF Director for Engineering Dawn Tilbury (left) told a House Science panel hearing this week. The I-Corps for Phase 0 pilot supports "non-academic teams of very early startups or pre-startups that are developing game-changing technologies. These Phase 0 Teams will receive national I-Corps training as well as participate in a follow-on curriculum called "I-Corps Go" that addresses some of the more common issues in startup formation, including incorporation, licensing and negotiation of intellectual property, and fundraising." Hearing chair Barbara Comstock (R-Va.) signaled strong support for I-Corps, saying such programs "boost our economy, enhance our national security, strengthen our cybersecurity infrastructure and create a STEM-job ready workforce."

NASA New Horizons Spacecraft Going Beyond Pluto: The Hill (12/6, Summers) reports that NASA's New Horizons spacecraft is "on its way to another distant world, 972 million miles beyond Pluto, still called by its discovery designation of 2014MU69." New Horizons will pass by MU69 on January 1, 2019, and scientists "have little idea what we will find." The object likely "has not changed since it was formed 4.56 billion years ago," which makes MU69 a "treasure chest" for scientists studying the origin and formation of planets. More information is posted on http://thehill.com/opinion/technology/363481-nasa-is-going-beyond-pluto

The Big Questions in R&D: The Science, Technology, and Innovation exchange is a pilot program of the Basic Research Office, and is the first DoD-wide event of its kind. The program is a reflection of the office's commitment to enhance and broaden awareness of science within and sponsored by the Department. As the BRO director, Dr. Robin Staffin stated, "*These investments [in science and technology] are the cornerstone of our ability to meet future capability needs, and contribute to the technological domincance of our country.*"
By design, STIx is meant to showcase the innovative impacts that DoD's science and technology (S&T) programs have made by providing primary investigators, program managers, and students the platform to share these impacts with broad audiences. At its core, STIx allows the vast DoD

investments and contributions to S&T to be illustrated in a way that promotes collaboration and emphasizes learning.

The inaugural STIx event was held in Crystal City, Virginia from 24-25 August 2017. The event consisted of a series of lightning talks based on the theme of "The Big Question". Specifically, the speakers delivered presentations that addressed one or more of the three subtopics:

- The *big question* that my research seeks to answer
- The *big question* that my technology addresses
- The *big question* of identifying, nurturing, recruiting, and/or retaining top STEM talent

More information is posted on the website http://basicresearch.defense.gov/events/STIx/

Research Data Sharing: The Association of American Universities and Association of Public and Land-grant Universities have jointly issued a report that "details steps federal agencies can take to facilitate public access to research data in a viable and sustainable manner that advances science in the public interest while minimizing the administrative burden on agencies, universities, and researchers." In this era of open scholarship, greater access to research findings and data, especially when grounded in the FAIR principles (findable, accessible, interoperable, reusable), has proven to be an important way to accelerate scientific progress and advance innovation to better serve the public good. Although there is general agreement about the value of increased public access to data, ensuring such expanded access will require a significant culture shift at universities and among their faculty, thoughtful and carefully crafted new government policies and practices, and investment in the infrastructure required to make data publicly accessible. For more information on the recommendation process, please visit https://www.aau.edu/sites/default/files/AAU-Files/Key-Issues/Intellectual-Property/Public-Open-Access/AAU-APLU-Public-Access-Working-Group-Report.pdf

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Webinar and Events

Event: Training-based Workforce Development for Advanced Cyberinfrastructure (CyberTraining) Webinar
Sponsor: NSF
When: December 12, 2017 from 2:00 PM to 3.00 PM
Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=243886&org=NSF
Brief Description: The overarching goals of this program are to (i) prepare, nurture, and grow the national scientific research workforce for *creating, utilizing,* and *supporting* advanced cyberinfrastructure (CI) that enables potentially transformative fundamental science and engineering research and contributes to the Nation's overall economic competiveness and security; (ii) ensure *broad adoption* of CI tools, methods, and resources by the fundamental science and engineering research community to enable new modes of discovery; and (iii) integrate core literacy and discipline-appropriate advanced skills in advanced CI as well as computational and data science and engineering into the Nation's educational *curriculum/instructional material fabric* spanning undergraduate and graduate courses. This webinar will cover the solicitation and submission requirements. It will also cover the additional aspects in the revised solicitation and various directorates' priorities. There will be a question and answer session following the discussion.
To Join the webinar, please register at:

https://nsf.webex.com/nsf/j.php?RGID=r953b7d14b0ff5a285bbf02914cce1f7b by midnight
Monday December 11th. After your registration is accepted, you will receive an email with a URL to join the meeting. Please be sure to join a few minutes before the start of the webinar. This system does not establish a voice connection on your computer; instead, your acceptance message will have a toll-free phone number that you will be prompted to call after joining. Please note that this registration is a manual process; therefore, do not expect an immediate acceptance. In the event the number of requests exceeds the capacity, some requests may have to be denied.

Event: Partnerships for Innovation Webinar
Sponsor: NSF
When: December 13, 2017 from 2:00 PM to 4.00 PM
Website: https://www.nsf.gov/events/event_summ.jsp?cntn_id=243844&org=NSF
Brief Description: The NSF Partnerships for Innovation program (PFI) offers researchers the opportunity to transform new knowledge into societal benefits through translational research and technology development efforts that catalyze partnerships and accelerate innovations.
The FY 2018 PFI solicitation offers two broad tracks for proposals:
   •   Technology Translation (PFI-TT) track
   •   Research Partnerships (PFI-RP) track
Join this webinar to learn more about the program goals, its two tracks, eligibility and other aspects of the solicitation. Potential investigators and partners are encouraged to attend.
To join the webinar: Advance registration for the webinar is required. Register via WebEx

Event: 3D Printing's Versatility Enables Medical Innovation
Sponsor: IEEE
When: December 19, 2017 from 1:00 PM to 2.00 PM
Website: https://spectrum.ieee.org/webinar/3d-printings-versatility-enables-medical-innovation
Brief Description: View this webinar to learn how 3D printing's versatility has paved the way for medical advancements by Cardiovascuar Systems, Inc. (CSI). To help fight the battle against CAD and PAD, CSI works continuously to advance their devices and develop new innovations. Work that relies greatly on a wide scope of 3D printing applications. Hear from Jacob Draxler, Product Development Engineer at CSI, and Michael Gaisford, Director of Marketing – Medical Solutions at Stratasys as they discuss medical applications of Stratasys' PolyJet™ technology.
PRESENTERS:
Jacob Draxler, Product Development Engineer, Cardiovascular Systems, Inc**.**
Jacob Draxler is a Product Development Engineer with Cardiovascular Systems, Inc. (CSI). In this role, he works within the engineering team to aid development of new products as well as furthering the understanding of the unique mechanism of action that CSI's Orbital Atherectomy Device (OAD) employs for the treatment of both calcific Peripheral (PAD) and Coronary Artery Disease (CAD) through the use of anatomical 3D printed fixtures. He holds a Master's degree in Mechanical Engineering from the University of St. Thomas as well as Bachelor of Science degrees in Biology and Psychology from the University of Georgia.
Michael Gaisford, Director Marketing – Medical Solutions, Stratasys
Michael Gaisford is the Director of Marketing for Stratasys Medical Solutions. In this role, he oversees global marketing programs, collaborations with physicians and hospitals and medical application development. Michael brings over a decade of medical device and pharmaceutical industry experience, including roles in marketing and strategy with Boston Scientific, as a consultant with Health Advances, a boutique healthcare consulting firm, marketing at Genentech

and as a Strategy Associate at CVS/Pharmacy. He holds an M.B.A. from the Tuck School of Business at Dartmouth and a B.S. in Industrial Engineering from Stanford University.

To join the webinar: Register at the above URL

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Grant Opportunities

National Science Foundation

Grant Program: Re-entry to Active Research Program (RARE)
Agency: National Science Foundation NSF 18-525
RFP Website: https://www.nsf.gov/pubs/2018/nsf18525/nsf18525.htm
Brief Description: The Division of Chemical, Bioengineering, Environmental, and Transport Systems (CBET) is conducting a Re-entry to Active Research (RARE) program to reengage, retrain, and broaden participation within the academic workforce. The primary objective of the RARE program is to catalyze the advancement along the academic tenure-track of highly meritorious individuals who are returning from a hiatus from active research. By providing re-entry points to active academic research, the RARE program will reinvest in the nation's most highly trained scientists and engineers, while broadening participation and increasing diversity of experience. A RARE research proposal must describe potentially transformative research that falls within the scope of participating CBET programs.

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

Who May Serve as PI: Investigators must contact a RARE program director to confirm eligibility prior to submission. The investigator will receive an e-mail confirmation of eligibility, which must be uploaded as a Single Copy document with the proposal submission.

Awards: Standard Grants; **Anticipated Funding Amount:** $1,200,000
Letter of Intent: Not Required
Submission Deadline: Anytime
Contacts: José Lage, telephone: (703) 292-4997, email: jlage@nsf.gov
- Angela Lueking, telephone: (703) 292-2161, email: alueking@nsf.gov
- Robert McCabe, telephone: (703) 292-4826, email: rmccabe@nsf.gov

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Grant Program: Critical Resilient Interdependent Infrastructure Systems and Processes 2.0 FY18 (CRISP 2.0)
Agency: National Science Foundation NSF 18-523

RFP Website: https://www.nsf.gov/pubs/2018/nsf18523/nsf18523.htm

Brief Description: This CRISP 2.0 solicitation responds both to national needs on the resilience of critical infrastructures and to increasing NSF emphasis on transdisciplinary research. In this context, the solicitation is one element of the NSF-wide Risk and Resilience activity, with the overarching goal of advancing knowledge in support of improvement of the nation's infrastructure resilience. The devastating effects of recent disasters such as Hurricanes Harvey, Irma and Maria have underscored that a great deal remains to be done. In addition, CRISP 2.0 is aligned with the NSF-wide frontier thinking on convergence, characterized as "deep integration of knowledge, techniques, and expertise from multiple fields to form new and expanded frameworks for addressing scientific and societal challenges and opportunities". The Directorate of Engineering and the Directorate of Social, Behavioral, and Economic Sciences therefore jointly invest in the CRISP 2.0 solicitation to stimulate the integration of engineering, and social, behavioral and economic sciences to foster new paradigms and domains in interdependent critical infrastructures.

Critical infrastructures are the mainstay of our nation's economy, security and well-being. They provide essential services through systems and processes. Many of the critical infrastructures are interconnected and even interdependent. This solicitation calls for integrated research on Interdependent Critical Infrastructures (ICIs) by interdisciplinary teams of engineers and social, behavioral, and economic scientists. Research funded through this program is expected to provide the momentum to create a new science of integrative designs in ICIs, to stimulate economic growth, and to inform how communities can engage diverse resources to improve the quality of life for their inhabitants.

Infrastructures are networks of systems and processes that function cooperatively and synergistically to produce and distribute a continuous flow of essential goods and services. For this competition, two or more infrastructures are said to be interdependent if they require each other's services or if the processes by which they deliver services can be affected by each other. The goals of the **Critical Resilient Interdependent Infrastructure Systems and Processes 2.0** (CRISP 2.0) solicitation are to: (1) foster an interdisciplinary research community of engineers and social, behavioral, and economic (SBE) scientists who work synergistically together for innovation in the design and management of infrastructures as processes and services; (2) transform relevant fields by re-thinking ICIs as processes and services that may have complementary and/or substitutional roles with each other; (3) create innovations in ICIs that contribute directly and positively to people's quality of life, spur economic growth, and respond to both internal perturbations and external shocks, regardless of whether they are natural, technological or human-induced.

Awards: Standard Grants; **Anticipated Funding Amount:** $13,400,000

Letter of Intent: Not Required

Submission Deadline: March 07, 2018

Contacts: Robert E. O'Connor (SBE/SES), telephone: (703) 292-7263, email: roconnor@nsf.gov
- Cynthia Chen (ENG/CMMI), telephone: (703) 292-2563, email: qchen@nsf.gov
- Wenda Bauchspies (SBE/SES), telephone: (703) 292 5026, email: wbauchsp@nsf.gov
- Robin L. Dillon-Merrill (ENG/CMMI), telephone: (703) 292-4921, email: rdillonm@nsf.gov

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Grant Program: Smart and Connected Communities (S&CC)
Agency: National Science Foundation NSF 18-520
RFP Website: https://www.nsf.gov/pubs/2018/nsf18520/nsf18520.htm

Brief Description: Communities in the United States (US) and around the world are entering a new era of transformation in which residents and their surrounding environments are increasingly connected through rapidly-changing intelligent technologies. This transformation offers great promise for improved wellbeing and prosperity, but poses significant challenges at the complex intersection of technology and society. The goal of the NSF Smart and Connected Communities (S&CC) program solicitation is to accelerate the creation of the scientific and engineering foundations that will enable smart and connected communities to bring about new levels of economic opportunity and growth, safety and security, health and wellness, and overall quality of life. This goal will be achieved through integrative research projects that pair advances in technological and social dimensions with meaningful community engagement.

For the purposes of this solicitation, communities are defined as having geographically-delineated boundaries—such as towns, cities, counties, neighborhoods, community districts, rural areas, and tribal regions—consisting of various populations, with the structure and ability to engage in meaningful ways with proposed research activities. A "smart and connected community" is, in turn, a community that synergistically integrates intelligent technologies with the natural and built environments, including infrastructure, to improve the social, economic, and environmental well-being of those who live, work, or travel within it.

A proposal for an S&CC Integrative Research Grants must include the following:
- Integrative research that addresses the technological and social dimensions of smart and connected communities;
- Meaningful community engagement that integrates community stakeholders within the project;
- A management plan that summarizes how the project will be managed across disciplines, institutions, and community entities; and
- An evaluation plan for assessing short-, medium-, and long-term impacts of the proposed activities.

S&CC is a cross-directorate program supported by NSF's Directorates for Computer and Information Science and Engineering (CISE), Education and Human Resources (EHR), Engineering (ENG), Geosciences (GEO), and Social, Behavioral, and Economic Sciences (SBE). Awards may be requested for total budgets ranging from $750,000 to $3,000,000 for periods of up to four years.

Awards: Standard Grants; **Anticipated Funding Amount:** $19,250,000
Letter of Intent: Required; January 30, 2018
Submission Deadline: February 28, 2018
Contacts: David Corman, Program Director, CISE/CNS, telephone: (703) 292-8754, email: dcorman@nsf.gov
- Radhakishan Baheti, Program Director, ENG/ECCS, telephone: (703) 292-8339, email: rbaheti@nsf.gov
- Cynthia Chen, Program Director, ENG/CMMI, telephone: (703)292-2563, email: qchen@nsf.gov

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Grant Program: National Robotics Initiative 2.0: Ubiquitous Collaborative Robots (NRI-2.0)
Agency: National Science Foundation NSF 18-518
RFP Website: https://www.nsf.gov/pubs/2018/nsf18518/nsf18518.htm
Brief Description: The NRI-2.0 program builds upon the original National Robotics Initiative (NRI) program to support fundamental research in the United States that will accelerate the development and use of collaborative robots (co-robots) that work beside or cooperatively with

people. The focus of the NRI-2.0 program is on **ubiquity**, which in this context means seamless integration of co-robots to assist humans in every aspect of life.

The program supports four main research thrusts that are envisioned to advance the goal of ubiquitous co-robots: **scalability**, **customizability**, **lowering barriers to entry**, and **societal impact**. Topics addressing **scalability** include how robots can collaborate effectively with multiple humans or other robots; how robots can perceive, plan, act, and learn in uncertain, real-world environments, especially in a distributed fashion; and how to facilitate large-scale, safe, robust and reliable operation of robots in complex environments. **Customizability** includes how to enable co-robots to adapt to specific tasks, environments, or people, with minimal modification to hardware and software; how robots can personalize their interactions with people; and how robots can communicate naturally with humans, both verbally and non-verbally. Topics in **lowering barriers to entry** include development of open-source co-robot hardware and software, as well as widely-accessible testbeds. Topics in **societal impact** include fundamental research to establish and infuse robotics into educational curricula, advance the robotics workforce through education pathways, and explore the social, economic, ethical, and legal implications of our future with ubiquitous collaborative robots. Collaboration between academic, industry, non-profit, and other organizations is encouraged to establish better linkages between fundamental science and engineering and technology development, deployment, and use.

The NRI-2.0 program is supported by multiple agencies of the federal government including the National Science Foundation (NSF), the U.S. Department of Agriculture (USDA), the U.S. Department of Energy (DOE), and the U.S. Department of Defense (DOD). Questions concerning a particular project's focus, direction and relevance to a participating funding organization should be addressed to that agency's point of contact, listed in section VIII of this solicitation.

Awards: Standard Grants; **Anticipated Funding Amount:** $35,000,000
Foundational projects will range from $250,000 to $750,000 in total costs for up to three years. Integrative projects will range from $500,000 to $1,500,000 in total costs for up to four years.
Letter of Intent: Not Required
Submission Deadline: February 20, 2018
Contacts: Reid Simmons, CISE/IIS, telephone: (703) 292-4767, email: resimmon@nsf.gov
  - Radhakisan Baheti, ENG/ECCS, telephone: (703) 292-8339, email: rbaheti@nsf.gov
  - Jordan M. Berg, ENG/CMMI, telephone: (703) 292-5365, email: jberg@nsf.gov

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Grant Program: Resource Implementations for Data Intensive Research in the Social, Behavioral and Economic Sciences (RIDIR)
Agency: National Science Foundation NSF 18-517
RFP Website: https://www.nsf.gov/pubs/2018/nsf18517/nsf18517.htm
Brief Description: As part of NSF's Harnessing the Data Revolution (HDR), the Directorate for Social, Behavioral and Economic Sciences (SBE) seeks to develop user-friendly large-scale next-generation data resources and relevant analytic techniques to advance fundamental research in SBE areas of study. Successful proposals will, within the financial resources provided by the award, construct such databases and/or relevant analytic techniques and produce a finished product that will enable new types of data-intensive research. The databases or techniques should have significant impacts, either across multiple fields or within broad disciplinary areas, by enabling new types of data-intensive research in the SBE sciences.
Awards: Standard Grants; **Anticipated Funding Amount:** $4,500,000
Letter of Intent: Not Required

Submission Deadline: February 28, 2018
Contacts: John E. Yellen (SBE/BCS), telephone: (703) 292-8759, email: jyellen@nsf.gov
- William Badecker (SBE/BCS), telephone: (703) 292-5069, email: wbadecke@nsf.gov
- Sara Kiesler (SBE/SES), telephone: (703) 292-8643, email: skiesler@nsf.gov
- Joseph Whitmeyer (SBE/SES), telephone: (703) 292-7808, email: jwhitmey@nsf.gov

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Grant Program: Training-based Workforce Development for Advanced Cyberinfrastructure (CyberTraining)
Agency: National Science Foundation NSF 18-516
RFP Website: https://www.nsf.gov/pubs/2018/nsf18516/nsf18516.htm
Brief Description: The overarching goals of this program are to (i) prepare, nurture, and grow the national scientific research workforce for *creating, utilizing, and supporting* advanced cyberinfrastructure (CI) that enables potentially transformative fundamental science and engineering research and contributes to the Nation's overall economic competiveness and security; (ii) ensure *broad adoption* of CI tools, methods, and resources by the fundamental science and engineering research community to enable new modes of discovery; and (iii) integrate core literacy and discipline-appropriate advanced skills in advanced CI as well as computational and data science and engineering into the Nation's educational *curriculum/instructional material fabric* spanning undergraduate and graduate courses. For the purpose of this solicitation, advanced CI is broadly defined as the set of resources, tools, and services for advanced computation, data handling, networking, and security that collectively enable potentially transformative fundamental research.

This solicitation calls for developing innovative, scalable training and education programs to address the emerging needs and unresolved bottlenecks in scientific and engineering research workforce development, from the postsecondary level to active researchers. The resultant training and education programs, spanning targeted, multidisciplinary communities, will lead to transformative changes in the state of workforce preparedness for advanced CI-enabled research in the short and long terms. As part of this investment, this solicitation seeks to broaden CI access and adoption by (i) increasing or deepening accessibility of methods and resources of advanced CI and of computational and data science and engineering by a wide range of *scientific disciplines* and *institutions* with lower levels of CI adoption to date; and (ii) harnessing the capabilities of larger segments of diverse underrepresented groups. Proposals from, and in partnership with, the aforementioned communities are especially encouraged.

Prospective principal investigators (PIs) are **strongly encouraged** to engage all relevant stakeholders, to the extent possible within the budget, by forging alliances and forming backbones for *collective impact*; this is particularly necessary in order to inform forward-looking curriculum/instructional material development for the Nation's science and engineering workforce. At a minimum, each project shall have a board of expert advisors or a network of funded/unfunded collaborators representative of stakeholder communities to periodically scrutinize and help refine the curriculum/instructional material and project methods, and to inform professional associations and non-governmental organizations responsible for curriculum, accreditation, and professional examination.

The CyberTraining program is led by the Office of Advanced Cyberinfrastructure (OAC) in the Directorate for Computer and Information Science and Engineering (CISE) and has participation from several directorates and divisions as described in Section II – Program Description, *Programmatic Areas of Interest.* Not all directorates/divisions are participating at the same level and some have specific research and education priorities. The appropriate contact for

the CyberTraining program in any directorate/division is the Cognizant Program Officer (PO) for the respective directorate/division/office/program listed.

All projects must advance CI training and education goals for CI-enabled fundamental research as described in the full text of this solicitation, in addition to addressing specific domain needs. Prospective PIs are **strongly encouraged** to contact the Cognizant Program Officers in CISE/OAC **and** in the participating directorate/division(s) relevant to the proposal to ascertain whether the focus and budget of the proposed activities are appropriate for this solicitation. Such consultations should be completed at least one month in advance of the submission deadline. PIs should include the names of the Cognizant Program Officers consulted in their Project Summaries as described in Section V.A – Proposal Preparation Instructions. The intent of the CyberTraining program is to stimulate co-funding between OAC and one or more domain directorates/divisions. (For this purpose, divisions of CISE other than OAC are considered "domain divisions.") To ensure relevance to community needs and to facilitate adoption, those proposals of interest to one or more domain divisions **must** include at least one PI/co-PI with expertise relevant to the targeted research discipline. All proposals shall include at least one PI/co-PI with expertise relevant to OAC.

Awards: Standard Grants; **Anticipated Funding Amount:** $3,500,000
Letter of Intent: Not Required
Submission Deadline: February 14, 2018
Contacts: Sushil K. Prasad, CISE/OAC, telephone: (703) 292-5059, email: sprasad@nsf.gov
- Almadena Y. Chtchelkanova, CISE/CCF, telephone: (703) 292-8910, email: achtchel@nsf.gov
- Fen Zhao, CISE/CNS, telephone: (703) 292-7344, email: fzhao@nsf.gov

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Grant Program: Innovation Corps - National Innovation Network Teams Program (I-CorpsTM Teams)
Agency: National Science Foundation NSF 18-515
RFP Website: https://www.nsf.gov/pubs/2018/nsf18515/nsf18515.htm
Brief Description: The National Science Foundation (NSF) seeks to develop and nurture a national innovation ecosystem that builds upon fundamental research to guide the output to facilitate the application of scientific discoveries closer to the development of technologies, products and processes that benefit society.

In order to maintain, strengthen and grow a national innovation ecosystem, NSF has established the Innovation Corps - National Innovation Network Teams Program (I-Corps Teams). The NSF I-Corps Teams Program purpose is to identify NSF-funded researchers who will receive additional support in the form of entrepreneurial education, mentoring and funding to accelerate innovation that can attract subsequent third-party funding.

The purpose of the NSF I-Corps Teams grant is to give the project team access to resources to help determine the readiness to transition technology developed by previously-funded or currently funded NSF projects. The outcomes of I-Corps Teams projects will be threefold: 1) a clear go /or no go decision regarding viability of products and services, 2) should the decision be to move the effort forward, a transition plan for those projects to move forward, and 3) a definition of a compelling technology demonstration for potential partners.

A webinar will be held monthly to answer questions about this program. Details will be posted on the I-Corps website (see https://www.nsf.gov/news/special_reports/i-corps/program.jsp) as they become available.

Awards: Standard Grants; **Anticipated Funding Amount:** $12,750,000

Letter of Intent: Not Required
Submission Deadline: Proposals Accepted Anytime
Contacts: Steven Konsek, telephone: (703) 292-7021, email: skonsek@nsf.gov
   • Cindy WalkerPeach, telephone: 703 292-8437, email: crwalker@nsf.

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National Institutes of Health

Grant Program: Promoting Research in Basic Neuroscience (R01 Clinical Trial Not Allowed)
Agency: National Institutes of Health PAS-18-483
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PAS-18-483.html
Brief Description: The mission of NINDS is to seek fundamental knowledge about the brain and nervous system and to use that knowledge to reduce the burden of neurological disease. NINDS supports research projects that range from basic studies of the nervous system to Phase III clinical trials. Several years ago, NINDS embarked on an institute-wide planning process to analyze its investments in basic, translational, and clinical research and generated a strategic plan (see Overview of NINDS Strategic Plan). The implementation of this plan is an ongoing process, with the goal of optimizing all research areas within the NINDS mission.

As part of the implementation of its strategic plan, NINDS analyzed how extramural funding has been distributed across the spectrum of basic and applied research over the last two decades. To perform this analysis, NINDS developed simple definitions of basic and applied research that could be applied as unambiguously and reproducibly as possible. Each of these categories was further subdivided into two subcategories—basic/basic, basic/disease-focused, applied/translational, and applied/clinical. For this analysis, basic/basic research was defined as studies aimed at understanding the development, structure and function of the normal nervous system whether performed in vitro, in animals, or in humans. Further description of these definitions and details about this analysis can be found on the NINDS website (Back to Basics). For the purpose of this FOA, basic/basic research will subsequently be referred to as "fundamental basic" research.

One of the most striking trends identified in this NINDS analysis was the steady decline in the funding of fundamental basic research. From 1997 to 2012, funding for this category decreased from 52% to 27% of the NINDS competing budget. Further analysis suggested that the major driver of this decrease has been the reduction in the number of fundamental basic research applications submitted by extramural investigators. NINDS interactions with the extramural community suggest that many investigators interested in fundamental basic research are reluctant to submit grant applications, due to a perceived lack of NIH interest in such research or out of concern that their applications might not fare as well in peer review as applications describing disease-related projects. Not only is basic research critical to the mission of many NIH Institutes and Centers, but NINDS preliminary data suggest that fundamental basic applications actually have a slightly higher chance of being funded than applications in any of the other three categories.

During the last three years, NINDS issued PAS 15-029 which provided set-aside funds for fundamental research projects that scored just outside of the pay line. These funds were able to provide additional support for a number of diverse and important research projects. These studies utilized a variety of model systems from sea squirts to non-human primates to study fundamental questions about CNS development, connectivity, and homeostasis regulation. The success of this program has prompted NINDS to reissue the award for an additional three years. In contrast to NIH FOAs focused on specific disease areas, this initiative is aimed exclusively at

stimulating fundamental basic neuroscience research. Proposed projects submitted through this FOA can be in any area of basic neuroscience that is within the NINDS mission.

For grants within the NINDS mission, the following guidelines apply: (1) projects intended to understand the mechanisms of, or develop treatments for, neurological disease are outside the scope of this FOA; (2) projects that propose any disease-based or applied experiments within a primarily basic grant are also not appropriate; (3) applications aimed primarily at developing tools and resources for basic neuroscience research are of secondary interest; and (4) applications on topics that have traditionally been assigned to other NIH Institutes not participating in this FOA are not appropriate. Furthermore, since some basic neuroscience applications may be more suitable for the FOAs developed through the BRAIN Initiative, investigators are encouraged to carefully examine opportunities within that program (see BRAIN). Applicants with questions about the NINDS mission and the goals of the BRAIN Initiative are strongly encouraged to contact NINDS Scientific/Research staff to determine if their anticipated applications are appropriate for this FOA. Finally, the NINDS believes that all research applications can be greatly strengthened if the design, execution, and interpretation of the proposed studies and supporting data are adequately described (for details see NINDS rigor).

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

Letter of Intent: Not Required

Deadline: Standard dates apply , by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.

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

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Grant Program: NIH Research Project Grant (Parent R01 Clinical Trial Not Allowed)
Agency: National Institutes of Health PA-18-484
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PA-18-484.html
Brief Description: The NIH Research Project Grant supports a discrete, specified, circumscribed project in scientific areas that represent the investigators' specific interests and competencies and that fall within the mission of the participating NIH Institutes and Centers (ICs). The R01 is the original, and historically the oldest, grant mechanism used by the NIH to support health-related research and development.

Research grant applications are assigned to participating ICs based on receipt and referral guidelines and many applications are assigned to multiple participating ICs with related research interests. Applicants are encouraged to identify a participating IC that supports their area of research via the R01 IC-Specific Scientific Interests and Contact website and contact Scientific/Research staff from relevant ICs to inquire about their interest in supporting the proposed research project.

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

Letter of Intent: Not Required

Deadline: Standard dates apply , by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.

The first standard application due date for this FOA is February 5, 2018.

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

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Grant Program: Clinical and Translational Science Award (U54 Clinical Trial Optional)
Agency: National Institutes of Health PAR-18-464
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PAR-18-464.html
Brief Description: Translating biomedical discoveries into clinical applications that improve human health is a complex process with high costs and substantial failure rates. This can result in a delay of years or decades before discoveries in biomedical research result in health benefits for patients and communities. Recognizing the need to improve translation, the National Institutes of Health (NIH) established the CTSA Program in 2006. In 2011, the CTSA Program became part of the National Center for Advancing Translational Sciences (NCATS). NCATS' mission is to identify and instantiate the general scientific and operational principles underlying each step of the translational continuum, thus transforming translation from an empirical process to a predictive science. To accomplish this, NCATS supports research to identify and test promising translational innovations and develop, demonstrate, and disseminate advances across the translational science spectrum.

In 2012, at the suggestion of Congress, the Institute of Medicine (IOM) was invited to assess the CTSA Program and make recommendations to enhance its effectiveness in meeting the NCATS mission. In 2013, the IOM delivered its report, suggesting among other recommendations that the program could greatly increase its impact if the multiple largely independent CTSA Program units were to evolve into a national network to "enhance the transit of therapeutic, diagnostic, and preventive interventions along the developmental pipeline; disseminate innovative translational research methods and best practices; and provide leadership in informatics standards and policy development to promote shared resources". Unless otherwise indicated, quotes in this FOA are from this IOM report, which can be found at "The CTSA Program at NIH: Opportunities for Advancing Clinical and Translational Research - Institute of Medicine".

This FOA defines a set of overarching strategic goals for the CTSA Program to which each of the CTSA Program hubs should contribute. The FOA also defines a set of standards and resources that should be available at each CTSA Program hub to allow the CTSA Program to function as a flexible research network. The medical centers that make up the CTSA network are referred to as "CTSA Program hubs" to indicate their central role in their local environments where they coordinate and collaborate with multiple "spokes" (e.g. hospitals, clinics). An important operational principle of all NCATS programs, including the CTSA Program, is to maximize impact via a catalytic approach: developing, demonstrating utility of, and then disseminating improvements in translational science and operations. Depending on the problem being addressed, CTSA Program hubs are expected to develop and demonstrate solutions to translational roadblocks individually, as groups of hubs, or as a network whole; in all cases, dissemination of successful solutions throughout the network, and to the translational research community as a whole, is an explicit goal and expectation.

The NCATS CTSA Program, as a whole, supports the full spectrum of clinical and translational research. The CTSA Program hubs are a critical part of the program. Given the enormous variety of translational scientific and operational issues in need of effective solutions, and the rich diversity of academic medical institutions, each hub is both required to have certain common capacities and is encouraged beyond these to bring its own unique strengths to the program and the network. Defined sets of capacities and resources should be present at each hub so that it can act as a qualified partner in the CTSA Program, promoting an environment of quality, safety and efficiency for translational and clinical research. CTSA Program Hubs should be agents of continuous improvement as they identify gaps and opportunities in the research process and develop and instantiate innovative solutions at their institutions. In training and operations,

CTSA Program Hubs should promote the team science required for translational research, and the development and nurturing of the translational research workforce.

Awards: Award Budgets for the sum of UL1 and KL2 awards are limited to between $3M and $7.5M in direct costs. Within that range, support is limited to 2.5% of total institutional NIH funding in the fiscal year prior to the time of application. Budgets for the TL1 awards are based upon the allowed number of trainees and considered separately. See Administrative Core – Budget Section for details.

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

Deadline: February 2, 2018 for the first receipt date after that Standard dates apply, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.

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

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Grant Program: NINDS Advanced Postdoctoral Career Transition Award to Promote Diversity in Neuroscience Research (K22-No Independent Clinical Trials)
Agency: National Institutes of Health PAR-18-469
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PAR-18-469.html
Brief Description: The candidate must propose a research project that will be pursued during Phase I and continue into an independent project during Phase II of the award. Consequently, the K22 applicant must have ownership of the project and by explicit agreement of the mentor, must be able to take the project with him/her upon transition to independence. The K22 award will provide up to 5 years of support in two phases. Phase II support will have a maximum duration of 3 years. If an awardee expends the maximum time in Phase I (3 years), Phase II will be limited to two years of support.

The two award phases are intended to be continuous in time. Therefore, although exceptions may be possible in limited circumstances, Phase II awards will generally only be made to those K22 PDs/PIs who accept independent tenure-track (or equivalent) faculty positions by the end of the Phase I award period. Phase II of the K22 award is not automatic. It will be awarded, following adminstrative review, only if the K22 awardee obtains a full-time tenure-track or equivalent faculty position. This position must include an appropriate startup package that is similar to that currently provided to others hired by the department into a similar position, and which is sufficient to promote success in the applicant's research area, appropriate protected time for research (a minimum of 75%) and access to students and resources normally associated with such a position.

Once the tenure track (or equivalent) position has been secured, NINDS senior staff will evaluate the Phase II materials (see below) to ensure that all programmatic requirements are met prior to continuation of the K22 award. Awardees approved to proceed with the second phase of support will receive notification of approval in writing from the NINDS. Updated information from the extramural institution on behalf of the candidate will be required for the NINDS to process the second phase of the K22. The sponsoring institution must demonstrate a commitment to the candidate by providing protected research time and space needed to perform the proposed research. It is strongly encouraged that Phase II occur at an institution different from that where the Phase I research occurred. However, as long as the faculty position and start-up package are appropriate, and the candidate has full research independence, Phase II may occur at the Phase I institution. If the applicant remains at the same institution, there must be a clear explanation of how independence from the mentor will be established. The details of the

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requirements for the activation of the Phase II of the K22 award are described in Section VI of this announcement.

During Phase II, it is expected that K22 recipients will apply for independent research grant support as soon as possible. K22 recipients are strongly encouraged to apply for R01 or equivalent Federal or Foundation awards within the final two years of their K22 award. K22 award recipients that obtain independent support during the K22 award period may hold concurrent research support, and, in the last two years of their K22 award, salary support from their career award and a competing NIH research project grant when recognized as a PD/PI or subproject Director of the research project grant.

NINDS support for the K22 program relies equally on scientific merit and programmatic considerations. Consequently, we strongly recommend that potential applicants consult Scientific/Research Staff at NINDS before preparing an application.Please also visit the NINDS website for specific resources and webinars to help develop an application. NINDS will not support projects, regardless of the results of merit review, if they do not fulfill current programmatic priorities at NINDS.

Awards: Award budgets are composed of salary and other program-related expenses, as described below.

Letter of Intent: Not Required

Deadline: Standard dates apply, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.

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

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Grant Program: Centers of Excellence for Translational Research (CETR) (U19 Clinical Trial Not Allowed)

Agency: National Institutes of Health RFA-AI-17-042

RFP Website: https://grants.nih.gov/grants/guide/rfa-files/RFA-AI-17-042.html

Brief Description: The objective of this FOA is to continue a program of multi-project translational research Centers focused on advancing discovery, preclinical development, production, licensure and/or use of new or improved countermeasures (therapeutics, immunotherapeutics, vaccines, vaccine technologies, and medical diagnostics) or related technologies specific to select NIAID Emerging Infectious Diseases/Pathogens. NIAID encourages Centers focused on development of medical countermeasures that are effective against a variety of pathogens and toxins, technologies that can be widely applied to improve classes of products, and platforms that can reduce the time and cost of creating new products.

Each Center will be organized around a Center-selected theme (Center theme) that addresses development and/or use of a targeted countermeasure or technology. NIAID anticipates considerable variety among Center themes and objectives, which can range from the development of single or multiple countermeasures targeting a specific group of listed pathogens/toxins to the development of new technologies or platforms that target a wide array of pathogens/toxins. Translational activities are anticipated to range from very early discovery-based efforts to late-stage preclinical development with industrial participation. Additionally, each Center will consider and address anticipated regulatory barriers for the targeted countermeasure or technology, particularly for new classes of medical countermeasures for which there are no precedents for FDA approval.

Examples of translational Center themes include, but are not limited to, the following areas:

- o   New or improved therapeutic(s) against antimicrobial-resistant pathogens.

- o Development of a multivalent (e.g. broadly cross-protective or "universal") vaccine.
- o Host-targeted interventions as therapeutics.
- o Development of broad-spectrum countermeasures against taxonomically-related viruses.
- o New or improved vaccine technologies or production platforms.
- o Development of a broad-spectrum countermeasure technology.
- o Co-development of a new therapeutic and associated diagnostic.

Awards: Application budgets are limited to $5 million for FY2019 direct costs and need to reflect the actual needs of the proposed project.
Letter of Intent: February 28, 2018
Deadline: March 30, 2018, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on this date.
Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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Grant Program: Research on Autism Spectrum Disorders (R21-Clinical Trial Optional)
Agency: National Institutes of Health PA-18-400
PA-18-401, R01 Research Project Grant
PA-18-399, R03 Small Research Grant
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PA-18-400.html
Brief Description: Autism Spectrum Disorders share a cluster of impairments in social communication, as well as the presence of stereotyped behavior, interests, or activities. These complex disorders are usually of lifelong duration and affect multiple aspects of development, learning, and adaptation at home and in the community, thus representing a pressing public health need. The etiologies of these disorders are not yet understood, but may include a combination of genetic and environmental influences.
Basic research into the pathophysiology of ASD, including research on brain mechanisms and genetics, is of special interest. Also of high priority are clinical and applied investigations that may lead to the development of new treatments and interventions.
Awards: The combined budget for direct costs for the two year project period may not exceed $275,000. No more than $200,000 may be requested in any single year.
Letter of Intent: Not Required.
Deadline: Standard dates apply, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.
Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

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Grant Program: NCMRR Early Career Research Award (R03 Clinical Trial Optional)
Agency: National Institutes of Health PA-18-211
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PAR-18-211.html
Brief Description: The NCMRR Early Career Research (ECR) Award is different from other NIH R03 programs, including the Parent Announcement. It is restricted to clinical and basic scientists who are in the early stages of their independent career in rehabilitation research. The research should be focused on one or more of the areas within the biomedical and behavioral mission of NCMRR: pathophysiology and management of chronically injured nervous and musculoskeletal systems; repair and recovery of motor and cognitive function; functional plasticity, adaptation,

and windows of opportunity for rehabilitation interventions; rehabilitative strategies involving pharmaceutical, stimulation, neuroengineering approaches, exercise, motor training, and behavioral modifications; pediatric rehabilitation; secondary conditions associated with chronic disabilities; improved diagnosis, assessment, and outcome measures; and development of orthotics, prosthetics, and other assistive technologies and devices. The expected outcome from projects funded under this mechanism is the acquisition of necessary preliminary data for a subsequent research project grant (R01) application.

The proposed project may or may not be hypothesis-driven since the goal is to collect the necessary preliminary data sufficient to apply for an R01 grant. The project may aid in the formulation of hypotheses and may be milestone-driven or descriptive in scope. Given that the goal is to collect preliminary data, R03 projects may be less immediately impactful or significant compared to the typical R01. It is not an expectation that this R03 project will likely "move the field forward" at this stage.

Awards: The combined budget for direct costs for the entire project period may not exceed $200,000. No more than $100,000 in direct costs may be requested in any sing.

Letter of Intent: Not Required

Deadline: March 30, 2018, March 29, 2019, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.

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

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Grant Program: Ruth L. Kirschstein National Research Service Award (NRSA) Short-Term Institutional Research Training Grant (Parent T35)
Agency: National Institutes of Health PA-18-404
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PA-18-404.html
Brief Description: The objective of the Ruth L. Kirschstein National Research Service Award Short-Term Institutional Research Training Grant (T35) program is to develop and/or enhance research training opportunities for health professional students and for graduate students in the physical or quantitative sciences interested in careers in biomedical, behavioral, and clinical research that are relevant to the NIH mission. The T35 program provides short-term support for a period of at least 8, but no more than 12, weeks in a grant year for full-time training experiences under the supervision of experienced researchers. Trainees are exposed to individuals with active research careers and learn about further research training opportunities and research career options. The training program should be of sufficient depth to enable selected trainees, upon completion of the program, to have a thorough exposure to the principles underlying the conduct of biomedical research. The proposed institutional research training program may complement other ongoing research training and career development programs at the applicant institution, but the proposed program must be clearly distinct from related programs currently receiving Federal support.

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

Letter of Intent: Not Required

Deadline: Standard dates apply, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.

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

Grant Program: mHealth Tools for Individuals with Chronic Conditions to Promote Effective Patient-Provider Communication, Adherence to Treatment and Self-Management (R21 Clinical Trial Optional)
Agency: National Institutes of Health PA-18-389
RFP Website: https://grants.nih.gov/grants/guide/pa-files/PA-18-389.html
Brief Description: The mission of the National Institute of Biomedical Imaging and Bioengineering (NIBIB) is to improve health by leading the development and accelerating the application of biomedical technologies. NIBIB is committed to integrating engineering with the physical and life sciences to advance basic research and medical care. One way that this is achieved is through the support of research and development of new biomedical imaging and bioengineering tools and technologies to improve the prevention, detection, treatment, and monitoring of disease. NIBIB scientific program areas that are appropriate for this funding opportunity can be found at: http://www.nibib.nih.gov/Research/ProgramAreas. NIBIB supports research from early stage technology development through first-in-human demonstrations and/or early feasibility clinical studies. NOTE: Under this FOA, NIBIB supports applications proposing early-stage clinical trials through Phase I, first-in-human, safety, feasibility or other small clinical trials that inform early-stage technology development. NIBIB will not support applications proposing Phase II, III, IV or pivotal clinical trials or trials in which the primary outcome is efficacy, effectiveness or a post-market concern. Applicants are strongly encouraged to contact NIBIB Program staff https://www.nibib.nih.gov/research-funding for guidance in advance of submitting an application that includes human subjects research to ensure their proposed project is in compliance with new NIH human subjects research and clinical trials policies (supports.

Research Objectives
For NINR this FOA encourages research for individuals with chronic diseases. Research topics of interest are to:
- Develop, test, and compare effective strategies that incorporate mHealth tools to improve patient-provider communications
- Develop, test, and compare mHealth tools for improved adherence to treatment
- Develop, test and compare mHealth tools for effective self-management
- Develop, test, and/or compare technologies that incorporate interventions for adherence and self-management strategies
- Develop, test, and/or compare mHealth technologies or tools in underserved populations

For NIBIB, topics of particular interest are to:
- Develop and test integrated, portable imaging technologies for monitoring health and as part of point-of-care diagnosis and treatment
- Develop and test tools to enhance the visualization and psychophysical understanding of complicated health information on mobile devices with the local cultural context
- Develop and test decision support systems to provide guidance and a framework for shared decision-making with medical professionals based on best available evidence
- Develop and test networked, citizen-driven approaches to engaging and retaining people in improving their health

- o Develop technology that incorporates telemetry and remote access in the acquisition, analysis and monitoring of biomedical data
- o Develop software and hardware tools for telehealth technology and studies that have broad applications or are in specific focus areas.

The evolution and vitality of the biomedical sciences require a constant infusion of new ideas, techniques, and points of view. These may differ substantially from current thinking or practice and may not yet be supported by substantial preliminary data. By using the R21 mechanism, the NIH seeks to foster the introduction of novel scientific ideas, model systems, tools, agents, targets, and technologies that have the potential to substantially advance biomedical research.

Awards: Direct costs are limited to $275,000 over a two-year 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.

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Department of Defense/US Army/DARPA/ONR

Grant Program: FY18 Funding Opportunity Announcement (FOA) for the Office of Naval Research (ONR) Navy and Marine Corps Science, Technology, Engineering & Mathematics (STEM), Education and Workforce Program

Agency: Department of the Navy ONR – N00014-18-S-F003

Website: file:///Users/atamdhawan/Downloads/N00014-18-S-F003.pdf

Brief Description: The ONR seeks a broad range of applications for augmenting existing or developing innovative solutions that directly maintain, or cultivate a diverse, world-class STEM workforce in order to maintain the U.S. Navy and Marine Corps' technological superiority. The goal of any proposed effort must provide solutions that will establish and maintain pathways of diverse U.S. citizens who are interested in uniformed or civilian DoN (or Navy and Marine Corps) STEM workforce opportunities.

As the capacity of the DoN Science and Technology (S&T) workforce is interconnected with the basic research enterprise and STEM education system, ONR recognizes the need to support efforts that can jointly improve STEM student outcomes and align educational efforts with Naval S&T current and future workforce needs. This announcement explicitly encourages projects that improve the capacity of education systems and communities to create impactful STEM educational experiences for students and workers. Submissions are encouraged to consider including active learning approaches and incorporating 21st century skill development. Projects must aim to increase student and worker engagement in STEM and enhance people with needed Naval STEM capabilities. ONR encourages applications to utilize current STEM educational research for informing project design and advancing our understanding of how and why people choose STEM careers and opportunities of naval relevance. While this announcement is relevant for any stage of the STEM educational system, funding efforts will be targeted primarily toward projects addressing the below communities or any combination of these communities:

- • Secondary education communities;
- • Post-Secondary communities;
- • Informal science communities;
- • Current naval STEM workforce communities.

Project scope may range in size and complexity. Projects that are already established with prior funding sources or have established stakeholders are especially encouraged to consider the following scope areas:

• Develop and implement exploratory pilot projects that seek to create new educational experiences within educational and training communities.

• Develop larger cohesive STEM education and training activities that strengthen the capacity of regional communities and stakeholders to improve STEM education and training.

• Establish meetings of stakeholders that must seek to connect relevant people and organizations to explicitly develop broader projects for impacting entire communities.

Awards: Under this STEM FOA competition, ONR intends to award approximately twenty-five (25) awards for an estimated total value of $6,250,000, subject to the availability of funds. Each individual award will be up to a maximum of $250,000 per year, with one-year (1) option periods, for up to three (3) years. Option years will be funded incrementally based on applicant performance and adherence to established execution benchmarks. Applications for larger amounts will be considered on a case-by-case basis.

Proposal Deadline: White Paper Inquiries and Questions 20 July 2018 (Friday) White Papers must be received between 2 April 2018 (Monday) with a deadline of 31 July 2018 (Tuesday) at 5:00 PM Eastern Time Application Inquiries and Questions 18 September 2018 (Tuesday) Applications must be received no later than 28 September 2018 (Friday) at 11:59 PM Eastern Time

Contact Information: Questions about technical nature and/or funding should be be submitted to: Dr. Michael Simpson Director of Education and Workforce Office of Naval Research 875 North Randolph Street Arlington VA 22203-1995 Email: onr_stem@navy.mil

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Grant Program: Research Interests of the Air Force Office of Scientific Research
Agency: Department of Defense AFOSR – BAA-AFRL-AFOSR-2016-0007
Website:
https://www.fbo.gov/index?s=opportunity&mode=form&id=d8bfeaf2e38a1e4aeb9908190fc2e0f2&tab=core&_cview=1

Brief Description: AFOSR plans, coordinates, and executes the Air Force Research Laboratory's (AFRL) basic research program in response to technical guidance from AFRL and requirements of the Air Force. Additionally, the office fosters, supports, and conducts research within Air Force, university, and industry laboratories; and ensures transition of research results to support U.S. Air Force needs. The focus of AFOSR is on research areas that offer significant and comprehensive benefits to our national war fighting and peacekeeping capabilities. These areas are organized and managed in two scientific Departments: Engineering and Information Science (RTA) and Physical and Biological Sciences (RTB).

The Air Force Office of Scientific Research, hereafter generally referred to as "we, us, our, or AFOSR," manages the basic research investment for the U.S. Air Force. As a part of the Air Force Research Laboratory (AFRL), our technical experts discover, shape, and champion research within the Air Force Research Laboratory, universities, and industry laboratories to ensure the transition of research results to support U.S. Air Force needs. Using a carefully balanced research portfolio, our research managers seek to foster revolutionary scientific breakthroughs enabling the Air Force and U.S. industry to produce world-class, militarily significant, and commercially valuable products.

To accomplish this task, we solicit proposals for basic research through this general Broad Agency Announcement outlining the U.S. Air Force Defense Research Sciences Program. We invite

unclassified proposals that do not contain proprietary information for research in many broad areas. We expect to fund only fundamental research. Our research areas of interest are described in detail in section A. Program Description.

We anticipate many awards in the form of grants, cooperative agreements, or contracts. We reserve the right to select and fund for award all, some, part, or none of the proposals received. There is no guarantee of an award. Please review the entire announcement for full details.

Awards: Funding available: $80,000,000

Proposal Deadline: This announcement remains open until superseded. We review and evaluate proposals as they are received. You may submit proposals at any time; however, some specific topic instructions may recommend submission by specific dates that align with funding expectations. Funding is limited. We commit the bulk of our funding by the fall of each year.

Contact Information: Daniel Smith Procurement Analyst Phone 703-588-8494 [Business Office Email](#)

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Grant Program: DoD Medical Simulation and Information Sciences, Toward A Next-Generation Trauma Care Capability: Foundational Research for Autonomous, Unmanned, and Robotics Development of Medical Technologies (FORwARD) Award
Agency: Department of Defense Dept. of the Army – USAMRAA W81XWH-17-MSISRP-FOR
Website: http://cdmrp.army.mil/
Brief Description: The MSISRP FORwARD Award mechanism is being offered for the first time in FY17. This mechanism supports basic research to increase knowledge/understanding through discovery and hypothesis generation, and should focus on providing basic fundamental knowledge that will inform and enable the future development of novel autonomous and/or robotic medical systems to care for wounded soldiers/patients through breakthrough, exploratory research. The objective of the FY17 MSISRP FORwARD Award is focused on addressing the following Topic Areas: 1. Autonomous and Unmanned Medical Capability – Identify novel ideas, approaches and research towards the conceptualization of autonomous and unmanned technologies for next-generation, high-quality medical capabilities with limited or absent medical care personnel, or personnel with limited skills. Research novel concepts, plausible approaches and advanced concept designs using biologically inspired cognitive computing models, machine learning, artificial intelligence, soft robotic semi-autonomous/autonomous resuscitation concepts and advanced applications of information sciences among other innovative, exploratory research towards advancing the state-of-the-art in delivery of forward resuscitative care at the point of injury. 2. Medical Robotics Research – Identify novel ideas, approaches and research towards the conceptualization of medical robotics and real-time tele-presence capabilities exploring the limits of machine perception for tele-robotic semi-autonomous and autonomous trauma care within remote and dispersed geographic settings. This could include exploratory research in semi-autonomous robotic surgery to improve the safety profile and efficacy of tele-surgical procedures and outcomes using hard robotics in challenging situations (e.g., combat casualties on the multi-domain battlefield or mass casualty situations) and remote or austere geographic locations, among other innovative, exploratory research aims and novel concepts.

Awards: Funding available: $2,600,000

Proposal Deadline: February 05, 2018

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

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Department of Energy

Grant Program: Solar Desalination
Agency: Department of Energy   DE-FOA-0001778
Website: https://eere-exchange.energy.gov/Default.aspx?Search=DE-FOA-0001778&SearchType=
Brief Description: The U.S. Department of Energy (DOE) seeks to fund applied scientific research that develops novel technologies or concepts using solar thermal energy to assist in the desalination process, which will reduce the levelized cost of water (LCOW) through reducing the levelized cost of heat (LCOH), increasing the energy efficiency for thermal desalination processes, and reducing the overall capital and integration costs for solar thermal desalination. Applications for thermal desalination include municipality water production, agriculture, industrial processes, and produced waters from the oil and gas industry. This funding opportunity announcement (FOA), intends to support the research, development, and demonstration (RD&D) of technologies that have the potential to integrate solar thermal technologies into desalination processes, develop novel low temperature solar concentrators and storage, consider novel and innovative thermal desalination technologies, or show how solar thermal energy can be implemented into current or upcoming desalination methods. As part of the SunShot Initiative, this applied research and development program is intended to demonstrate new concepts in either solar thermal or thermal desalination technologies, or the combination therein. These developments should lead to subsequent system integration, engineering scale-up, and eventual commercial production for water purification applications.

The eXCHANGE system is currently designed to enforce hard deadlines for Concept Paper and Full Application submissions. The APPLY and SUBMIT buttons automatically disable at the defined submission deadlines. The intention of this design is to consistently enforce a standard deadline for all applicants.

Applicants that experience issues with submissions PRIOR to the FOA Deadline: In the event that an Applicant experiences technical difficulties with a submission, the Applicant should contact the eXCHANGE helpdesk for assistance (exchangehelp@hq.doe.gov). The eXCHANGE helpdesk and/or the EERE eXCHANGE System Administrators will assist the Applicant in resolving all issues.

Applicants that experience issues with submissions that result in a late submission: In the event that an Applicant experiences technical difficulties with a submission that results in a late submission, the Applicant should contact the eXCHANGE helpdesk for assistance (exchangehelp@hq.doe.gov). The eXCHANGE helpdesk and/or EERE eXCHANGE System Administrators will assist the Applicant in resolving all issues (including finalizing the submission on behalf of and with the Applicant's concurrence). DOE will only accept late applications when theApplicant has a) encountered technical difficulties beyond their control; b) has contacted the helpdesk for assistance; and c) has submitted the application through eXCHANGE within 24 hours of the FOA's posted deadline.

Submission Deadline:
   •   Concept Paper Submission Deadline: 12/4/2017 5:00 PM ET
   •   Full Application Submission Deadline: 3/16/2018 5:00 PM ET
Contact Information: EERE-ExchangeSupport@Hq.Doe.Gov
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Grant Program: FOA: State Energy Program 2017 Competitive Awards
Agency: Department of Energy   DE-FOA-0001644

Website: https://eere-exchange.energy.gov/#FoaId039aab9e-c42b-4a8a-bf67-85af26b0f2f6
Brief Description: Limited to State Energy Offices (defined as the 50 states, the District of Columbia and five territories). The Office of Energy Efficiency and Renewable Energy's (EERE) State Energy Program (SEP) seeks applications to advance policies, programs, and market strategies that advance affordable and reliable energy to promote economic growth and energy security for the nation. This competitive Funding Opportunity Announcement (FOA) allows States (which includes the District of Columbia and five territories) to compete for funding designed to meet SEP's goals to enhance energy security, advance state-led energy initiatives, and maximize the benefits of decreasing energy waste. Specifically, this FOA includes three Areas of Interest: State Energy Planning, Innovative Opportunities for Energy Efficiency and Renewable Energy (EE/RE) Practices, and Technical Assistance to Advance SEP Formula Grant EE/RE Activities.
Submission Deadline: January 11, 2018. Applicants are encouraged to transmit applications well before the deadline. APPLICATIONS RECEIVED AFTER THE DEADLINE WILL NOT BE CONSIDERED FOR AWARD. (Please read the FOA instructions for information on how to apply.)
Contact Information: SEPCompetitive2017@ee.doe.gov

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NASA

Grant Program: ROSES 2017: Advancing Collaborative Connections for Earth System Science
Agency: NASA NNH17ZDA001N-ACCESS
Website:
https://nspires.nasaprs.com/external/solicitations/summary.do?solId=%7B7782DF97-B7AE-BDEC-A677-E96F281D39A3%7D&path=open&method=init
Brief Description: The Earth Science Data System (ESDS) Program is soliciting proposals for Advancing Collaborative Connections for Earth System Science (ACCESS). The primary goal of ACCESS is to develop and implement technologies to effectively manage, discover and use NASA's archive of Earth observations for scientific research and applications. This program complements NASA's Earth Observing System Data and Information System (EOSDIS) by engaging researchers and software developers external to EOSDIS in NASA's mission to "drive advances in science, technology, aeronautics, space exploration, economic vitality, and stewardship of the Earth" and furthers Strategic Goal 2.2 to "advance knowledge of Earth as a system to meet the challenges of environmental change and to improve life on our planet" (http://science.nasa.gov/aboutus/science-strategy/). ACCESS aims to improve and expand the use of NASA's Earth science data by leveraging modern techniques for discovering, managing and analyzing large and complex Earth science data sets. Over the past 20 years NASA's EOSDIS has significantly evolved capabilities to process, archive and distribute data from satellites, airborne missions and field campaigns. Since inception, data from EOSDIS have been fully and openly available to anyone. In 2016, over 3 million users downloaded science data from the EOSDIS Distributed Active Archive Centers (DAACs). Today EOSDIS archives contain over 24 petabytes (PBs) of Earth observations. Within 5 years, as new missions are launched and instruments commissioned, the archive is projected to be over 150 PB with an annual growth rate of nearly 50 PB per year. This long-term, continuously updated global environmental record presents unique opportunities for science and significant challenges for data management and access. For more on EOSDIS and its components, please see https://earthdata.nasa.gov/about. The focus of this solicitation is to help EOSDIS address data management, discoverability, and utilization challenges faced by users and curators of NASA's Earth science data. Although focused on information

technology development and deployment, the ACCESS program is targeted at addressing existing and anticipated future needs of the research and applied science communities. Proposal teams must include both information technology and Earth science expertise, and must be tied directly to specific issues facing Earth science and applied science users interacting with EOSDIS.

Awards: $4.5M

Notice of Intent: December 7, 2017

Proposal Deadline: January 31, 2018

Contact: http://nspires.nasaprs.com/ (help desk available at nspires-help@nasaprs.com or (202) 479-9376

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National Endowment of Humanities

Grant Program: Digital Humanities Advancement Grants

Agency: National Endowment of Humanities

Website: https://www.neh.gov/grants/odh/digital-humanities-advancement-grants

Brief Description: Digital Humanities Advancement Grants (DHAG) support digital projects throughout their lifecycles, from early start-up phases through implementation and long-term sustainability. Experimentation, reuse, and extensibility are hallmarks of this grant category, leading to innovative work that can scale to enhance research, teaching, and public programming in the humanities. This program is offered twice per year. Proposals are welcome for digital initiatives in any area of the humanities.

Through a special partnership, the Institute of Museum and Library Services (IMLS) anticipates providing additional funding to this program to encourage innovative collaborations between museum or library professionals and humanities professionals to advance preservation of, access to, use of, and engagement with digital collections and services. Through this partnership, IMLS and NEH may jointly fund some DHAG projects that involve collaborations with museums and/or libraries.

Awards: Level I awards (from $10,000 to $50,000) are small grants designed to fund exploratory sessions, workshops, early alpha-level prototypes, and initial planning. In addition to early planning towards an experimental prototype, Level I proposals can identify a problem or research question, explore a research agenda, or discover appropriate methodologies or technologies for both new projects and projects in need of substantive revision or recovery. Outcomes for Level I projects would likely include reports, position papers, and plans for subsequent steps and future research or development. Level I projects may also fund meetings, workshops, or reports addressing specific topics related to the impact of technology on the humanities. Proposals should include specific plans for broad dissemination of project outcomes.

Level II awards (from $50,001 to $100,000) are larger grants that can be used for more fullyformed projects that have completed an initial planning phase. Level II proposals should therefore include a more articulated plan of work leading to concrete and tangible outcomes, such as working prototypes; detailed plans for upgrading existing or defunct projects in need of substantive revision, enhancement, or recovery; test beds; or demonstration projects. Digital Humanities Advancement Grants at both Level I and Level II stages support full-time or part-time activities for periods up to eighteen months.

Level III awards (from $100,001 to $325,000 for up to three years) support implementation and scaling-up of already established projects. All projects must already have completed a startup phase prior to application. The earlier phase of the project could have been supported previously by NEH or by another funding source. (Please see the instructions for the

narrative component of the application below, in particular beneath the "History of the project" bullet.) Level III projects must submit both data management and sustainability plans, and all projects are expected to fulfill the obligations outlined in these plans.

Proposal Deadline:
Until January 16, 2018: Contact Office of Digital Humanities program officers (at odh@neh.gov) with questions and for advice (optional)
December 5, 2017: Submit draft application by this date (optional)
December 19, 2017: Create or verify your institution's Entity record at the System for Award Management by this date
January 2, 2018: Register your institution (or verify its registration) with Grants.gov by this date
January 16, 2018: Submit application through Grants.gov by this date
April-May 2018: peer review panels take place
July 2018: meeting of the National Council on the Humanities, followed by funding decisions
August 2018: applicants are notified of the funding decisions
September 2018: institutional grants administrators and project directors of successful applications receive award documents by e-mail

Contact: Contact the Office of Digital Humanities (ODH) via e-mail at odh@neh.gov. Applicants wishing to speak to a staff member by telephone should provide in an e-mail message a telephone number and a preferred time to call. Applicants who are deaf or hard of hearing can contact NEH via Federal Relay (TTY users) at 800-877-8399.

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ELSA U. PARDEE FOUNDATION

Grant Program: Theoretical and Computational Astrophysics Networks
Agency: Elsa U. Pardee Foundation
Website: http://www.pardeefoundation.org/grants.aspx
Brief Description: The Elsa U. Pardee Foundation funds research to investigators in United States non-profit institutions proposing research directed toward identifying new treatments or cures for cancer. The Foundation particularly encourages grant applications for a one year period which will allow establishment of capabilities of new cancer researchers, or new cancer approaches by established cancer researchers. It is anticipated that this early stage funding by the Foundation may lead to subsequent and expanded support using government agency funding. Project relevance to cancer detection, treatment, or cure should be clearly identified. By design, there are no limits set on the grant amount that can be requested. It must be reasonably and clearly supported by the scope of the project outlined in the application. Applications requesting more than 15% overhead are usually not considered. Papers verifying nonprofit status and relevant human subject and experimental animal treatment approvals from the recipient institution will be requested prior to project initiation. A final report summarizing financial expenditure and research achievement is required.

Proposal Deadline:

Application Deadline	Final Review
December 31	May
April 30	September
August 31	December

Contact: Eric Blitz, Associate Director for Development, Corporate and Foundation Relations at eric.blitz@njit.edu

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Klingenstein-Simons Neuroscience Fellowships

Grant Program: The Klingenstein-Simons Fellowship Awards in the Neurosciences
Agency: Klingenstein-Simons Neuroscience Fellowships
Website: http://www.klingfund.org/description.php
Brief Description: The Klingenstein-Simons Fellowship Awards in the Neurosciences supports, in the early stages of their careers, young investigators engaged in basic or clinical research that may lead to a better understanding of neurological and psychiatric disorders. The Klingenstein Fund and the Simons Foundation recognize that to accomplish this goal it is necessary to encourage a variety of new approaches. Several areas within the neurosciences are of particular interest:

Cellular and molecular neuroscience—Studies of the mechanisms of neuronal excitability and development, and of the genetic basis of behavior.

Neural systems—Studies of the integrative function of the nervous system.

Translational research—Studies designed to improve the prevention, diagnosis, treatment and our understanding of the causes of neurological and psychiatric disorders.

The candidate must and be within 4 years of completing postdoctoral training and the start of his/her tenure track appointment (between July 1, 2014 and July 1, 2018).
Proposal Deadline: February 15, 2018

Contact: Eric Blitz, Associate Director for Development, Corporate and Foundation Relations at eric.blitz@njit.edu

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Boston Globe Life Sciences Media

Grant Program: Innovative Research Development in Health or Medicine Prize
Agency: Boston Globe Life Sciences Media
Website: https://www.statnews.com/stat-madness-apply/official-rules/
Brief Description: *STAT* newsletter is offering a prize for "innovative research development in health or medicine that changes the life sciences."
NJIT could nominate up to three contestants.
https://www.statnews.com/stat-madness-faq/
Criterion:
1. Creativity of the Innovation, including its potential breakthrough and disruptiveness, and how it addresses unarticulated or existing unmet needs in health and/or medicine (33%);
2. Originality and novelty of the Innovation and its methodologies, (33%); and
3. Potential beneficial impact of the Innovation in its respective field, the general public, and society overall, and its longevity (34%).

Proposal Deadline: January 22, 2018
Contact: Eric Blitz, Associate Director for Development, Corporate and Foundation Relations at eric.blitz@njit.edu

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JDRF and the Helmsley Charitable Trust

Grant Program: Diabetes Innovation Challenge
Agency: JDRF and the Helmsley Charitable Trust
Website: https://diabetes.innovationchallenge.com/skild2/diabetes/loginPage.action
Brief Description: The Diabetes Innovation Challenge is seeking:
- **Automated Insulin Devices** and related components including glucose sensing, insulin delivery systems, and cellular therapy delivery technologies
- **Diagnostics** such as tests for research and screening; early diagnosis and prevention; autoantibodies, C- peptide, or other markers such as beta cell death and risk of diabetic complications
- **Therapeutics** like smart insulins, glucagons, immune-modulating therapies, beta cell regeneration, and treatments for diabetic complications
- **Technology Design/Disease Management.** For example, new approaches to using information and communication technologies to support diabetes management

Awards: The Diabetes Innovation Challenge will award $250,000 in cash and in-kind prizes for the winning innovations.
Proposal Deadline: January 31, 2018
Contact: Eric Blitz, Associate Director for Development, Corporate and Foundation Relations at eric.blitz@njit.edu

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Streamlyne Update

It has been very exciting to introduce Streamlyne as the new tool for Grant Management. Streamlyne is simplifying the pre-award proposal submission processes promoting shared information technology (IT), and improving the timeliness of grant close out. Currently Streamlyne system has been customized in the following areas:
- Download the package with all forms – there are still some exceptions to this as the federal government continues to change some of the standard forms.
- Validation error prior to submission – this allows to review the package for errors
- Work Flow approval transparent to all users
- Budget forms customized to NSF and/or S2S
- Sub-award budgets easily download – this will allow better management of the award

New "How to Do" videos have been posted on the research website http://www5.njit.edu/research/streamlyne/. These videos show step-by-step process on the following tasks:
♦ How to Begin Proposal Submission in Streamlyne
♦ How to Input Proposal Budget
♦ How to Process Approvals
♦ How to Upload Proposal Attachments
♦ How to Search for a Proposal that is in Route
♦ Difference Between "Prime Sponsor Code" and "Sponsor Code"
♦ How to Select an RR Budget, RR Sub-award or Modular Budget
♦ How to Add a Student/Summary

- ♦ [Participant Support Categories](#)
- ♦ [Supplies Specific Category Materials](#)
- ♦ [How to Create a Modular Budget](#)

Also, the following links may be helpful**:**
- ♦ [Streamlyne Benefits for Proposal Submission and Grant Management](#)
- ♦ [Grants.gov Presentation on Online Proposal Submission Systems](#)
- ♦ [Streamlyne Newsletter V2017.1](#)
- ♦ [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
> **Sean Andrews**, YWCC Director of Research; (973) 596-5352; sean.t.andrews@njit.edu
> **Iris Pantoja**, CoAD and MTSM Project Manager; 973-596-4483; irp3@njit.edu
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