July 18, 2016

EVENT

I-Corps at the National Institutes of Health Webinar

Registration Required

Date/Time: Thursday, July 21, 2016 @ 1:00 pm EST ~ 90 minutes

Registration Required: http://sites.nationalacademies.org/PGA/guirr/PGA_080515

Sponsored by The Government-University-Industry Research Roundtable (GUIRR) of the National Academies

This program seeks to accelerate the development and commercialization of new products and services arising from projects supported by currently funded NIH Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) awards. In particular, the I-Corps program is designed to support training that will help project teams at NIH-funded small businesses overcome key obstacles along the path of innovation and commercialization. Please join us for a webinar to discuss the NIH I-Corps program and its impacts. Funding is provided as a supplement to existing SBIR and STTR awards and anticipate a new PA coming with 2 new deadlines in fall and early spring (existing PA 16-019 http://grants.nih.gov/grants/guide/pa-files/PA-16-019.html)

FUNDING OPPORTUNITIES

Limited Submissions

Instructions for submitting internal application: Internal applications must consist of (1) chair’s letter, (2) research abstract, (3) biosketch or CV, (4) budget and be submitted on the attached required forms. Send Limited Submission Applications to: Cindy Gary (Hajim) cindy.gary@rochester.edu

cindy.gary@rochester.edu

National Science Foundation
Improving Undergraduate STEM Education: Pathways into Geoscience (IUSE: GEOPATHS) NSF 16-584


Limitation: An organization may serve as sole submitting institution or as lead institution of a collaborative project on only one submission per competition, regardless of track, but may serve as the non-lead institution of a collaborative project more than once per competition. Additional eligibility requirements are described later in the solicitation.

Funding: ~$500,000-$600,000 per award

Synopsis: GEOPATHS solicitation features two funding Tracks: (1) Engaging students in the geosciences through extracurricular experiences and training activities (GEOPATHS-EXTRA), and (2) Improving pathways into the geosciences through institutional collaborations and transfer (GEOPATHS-IMPACT). The primary goal of the IUSE: GEOPATHS funding opportunity is to increase the number of undergraduate students interested in pursuing undergraduate degrees and/or post-graduate degrees in geoscience through the design and testing of novel approaches for engaging students in authentic, career-relevant experiences in geoscience. In order to broaden participation in the geosciences, engaging undergraduate students from traditionally underrepresented groups or from non-geoscience degree programs is a priority.

National Science Foundation

Platforms for Advanced Wireless Research (PAWR): Establishing the PAWR Project Office (PPO) (PAWR/PPO)


Internal Deadline: August 5, 2016. 1 selection with a required Preliminary Proposal Due Date (required) September 20, 2016

Funding: 1 award @ $5M

Synopsis: The Platforms for Advanced Wireless Research (PAWR) program aims to support advanced wireless research platforms conceived by the U.S. academic and industrial wireless research community. PAWR will enable experimental exploration of robust new wireless devices, communication techniques, networks, systems, and services that will revolutionize the nation's wireless ecosystem, thereby enhancing broadband connectivity, leveraging the emerging Internet of Things (IoT), and sustaining US leadership and economic competitiveness for decades to come.

In order to support the design, development, deployment, and operations of the advanced wireless research platforms, the National Science Foundation's (NSF) Directorate for Computer and Information Science and Engineering (CISE) will support the work of a PAWR Project Office (PPO). Working closely with the wireless research community, the PPO will assume responsibility for design, development, and deployment of a set of advanced wireless research platforms. Upon successful completion of the design of advanced wireless research platforms, and contingent upon support from NSF management, the PPO will proceed to the development and deployment phases with funding provided by NSF as well as a PAWR Industry
Consortium. Upon successful deployment of each individual research platform, the PPO may subsequently operate the platform in service to the wireless research community.

Send Limited Submission Applications to: Cindy Gary (Hajim) cindy.gary@rochester.edu

George M. O'Brien Kidney Research Core Centers (P30)

RFA-DK-16-031


Internal Application Deadline: August 5, 2016

Funding Level: The NIDDK intends to commit $3,680,000 in FY 2017 to fund three awards. Application budgets are limited to $750,000 in direct costs per year. The project period for an application submitted in response to this funding opportunity may not exceed five years.

Program Synopsis: This Funding Opportunity Announcement (FOA) invites applications for the George M. O'Brien Kidney Research Centers to support both basic and clinical research on kidney disease. The goal of the O'Brien Kidney Research Center program is to make state-of-the-art technologies and resources readily accessible to a broad spectrum of investigators who are pursuing studies in relevant topic areas. The emphases for this program are fourfold: (1) to attract new scientific expertise to and develop new tools for the study of human kidney physiology and disorders in humans and in animal and other models; (2) to encourage multidisciplinary research in these areas; 3) To explore new areas with translational potential; and 4) to generate Developmental Research (DR)/Pilot and Feasibility (P and F) studies which should lead to new and innovative approaches to study kidney disease. Information about the current George M. O'Brien Kidney Research Core Centers may be found at the following URL: http://www2.niddk.nih.gov/Research/Centers/CenterPrograms/.


Internal Application Deadline: August 12, 2016

Funding: $100,000/ per year for 5 years for the investigator. $10,000/ per year for 5 years for the investigator’s department.

Synopsis: The Simons Investigators in Mathematics, (Theoretical) Physics, Astrophysics and Theoretical Computer Science program aims to provide a stable base of support for outstanding scientists, enabling them to undertake long-term investigations of the fundamental theoretical questions in their fields. Scientist must be engaged in theoretical research in mathematics, physics, astrophysics or computer science and must not have previously been a Simons Investigator. At the time of the appointment start date, an Investigator should be tenured.

https://www.simonsfoundation.org/mathematics-and-physical-science/simons-investigators/

Internal Application Deadline: August 12, 2016

Funding: $100,000/ per year for 5 years for the investigator. $10,000/ per year for 5 years for the investigator’s department.

Synopsis: At the time of appointment, an Investigator should be in the early stages of an academic career (within eight years of the start of his/her first faculty position) and, typically, be holding an assistant professorship or equivalent position. The program aims to foster a culture of theory-experiment collaboration in the life sciences similar to that prevailing in the physical sciences. A broad spectrum of basic research is supported, ranging from genomics to cellular-level issues of organization, regulation, signaling and dynamics, to the properties of organisms and ecosystems. Neuroscience and evolution are also of interest. Simons Investigators in the Mathematical Modeling of Living Systems intent is to help launch the research careers of outstanding junior scientists. Nominees to the program will normally be in the first few years of their first faculty appointment. In 2017, the foundation expects to appoint eight Simons Investigators in MMLS.

Great Reference

NSF Releases Five-Year Investment Framework for Graduate Education

The National Science Foundation (NSF) released its Strategic Framework for Investments in Graduate Education for FY 2016-FY 2020 that addresses NSF’s goals in supporting graduate education and formulates a set of strategic objectives to meet those goals by 2020. The three goals outlined by NSF are:

- Advance Science and Engineering (S&E) Research;
- Broaden Participation to Promote Excellence in Research and Build the Next Generation STEM Workforce; and,
- Build Effective Models of Graduate Education and Workforce Development.

External Funding

Arnold & Mabel Beckman Foundation – Young Investigators Program

http://www.beckman-foundation.org/programs/beckman-young-investigators-program-information

* While not limited, this opportunity requires institutional endorsement. Therefore, the University requests all potential applicants express their intent to apply as soon as possible but no later than August 8th, 2016. This will allow leadership time for institutional endorsement prior to the final deadline.

Timeline/Process:
Notification of intent to apply: August 8th, 2016. Please reach out to Assistant Director of Foundation Relations, Emily Kellas ekellas@ur.rochester.edu and Assistant Dean for Grants & Contracts, Debra Haring debra.haring@rochester.edu as soon as possible to express your intent.

LOI Submission Deadline: August 13th, 2016

Funding Level(funding & duration): $750,000 over 4 years

Synopsis: The Beckman Young Investigator (BYI) Program provides research support to the most promising young faculty members in the early stages of their academic careers in the chemical and life sciences who have not yet received a major award from another organization, particularly to foster the invention of methods, instruments and materials that will open up new avenues of research in science.

Eligibility:

• Open to those within the first three years of a tenure-track position, or an equivalent independent research appointment, in an academic or non-profit institution that conducts research in the chemical and life sciences.

• Candidates must be citizens or permanent residents of the United States at the time of application. Persons who have applied for permanent residency but have not received their government documentation by the time of application are not eligible.

• No individual may apply for a Beckman Young Investigator award more than two times.

• Investigators can have no more than $225,000 in direct, annualized external funding grants during any BYI Program Year (Aug-July) at time of application. Start-up funds, department-wide instrumentation grants, and "Transition" grants (such as NIH K99/R00) are not counted toward this total.

• Proposals that already have substantial funding will not be considered for the BYI award.

Please reach out to Assistant Director of Foundation Relations, Emily Kellas (ekellas@ur.rochester.edu) and Assistant Dean for Grants & Contracts, Debra Haring (debra.haring@rochester.edu) as soon as possible to express your intent.

Semiconductor Research Corporation

https://www.src.org/compete/s201610/

Global Research Collaboration (GRC) - Call for Research in Innovative and Intelligent Internet of Things

Whitepaper Deadline: August 15, 2016

Synopsis: SRC Global Research Collaboration (GRC) is soliciting white papers in the area of Innovative and Intelligent Internet of Things (I3T). Interested parties are requested to submit a brief 1-page white paper, which should identify what can be done in a two-year period beginning March 1, 2017, and what could be done additionally if a third year is requested. Two-year-only white papers are also acceptable. A successfully selected white paper will result in an invitation to submit a full proposal, with recommendation
that the proposal will be written for 2 years or 3 years. These proposals will be further down-selected for research contracts. Only a very limited number of white papers will receive eventual funding.

National Science Foundation

Partnership for Innovation - Accelerating Innovation Research- Technology Translation (PFI: AIR-TT)

16-583


Funding: up to $200,000 for 18 months per award

Synopsis: The PFI: AIR-TT solicitation serves as an early opportunity to move previously NSF-funded research results with promising commercial potential along the path toward commercialization. Projects are supported to demonstrate proof-of-concept, prototype, or scale-up while engaging faculty and students in entrepreneurial/innovative thinking. *Requires a lineage of funding: lineage of research results from a prior NSF award, OR lineage to customer discovery results through graduation from a National NSF-funded I- Corps program. NOTE That there will only be 1 submission round per year going forward.

Eligibility: 1. PI or a co-PI must have had an NSF award that ended no more than 6-years prior to the chosen submission window’s full proposal deadline date or be a current NSF award recipient. The proposed proof-of-concept or prototype/ scale-up must be derived from the research results and/or discoveries from this underlying NSF award -OR- 2. The PI or a co-PI must have graduated as part of an NSF cohort from an NSF funded National I- Corps program within the past 3 years. The proposed proof-of-concept or prototype/scale-up must be based on technology for which customer discovery activities were performed under the I- Corps national training. In other words, it is not sufficient to just have had I- Corps training; rather the customer discovery activities performed under the NSF-funded I- Corps grant need to be based on the technology that is proposed to be translated within the AIR-TT proposal.

**Note: a proposal describing sole lineage to any of the following programs is not allowed and may be returned without review: Research Experiences for Undergraduates (REU), Research Experiences for Teachers (RET), the Graduate Research Fellowship Program (GRFP), PFI: AIR-TT, PFI: AIR-RA, Regional I-Corps, and SBIR/STTR.

WEBINAR: A webinar will be held the end of July or early August, 2016 to answer any questions about this solicitation. Details will be posted on the IIP website (http://www.nsf.gov/eng/iip/pfi/air-tt.jsp) as they become available.

National Science Foundation

Dear Colleague Letter: Change Makers 16-109
Synopsis: The Directorate for Education and Human Resources (EHR) at NSF invites innovative research and development proposals to advance STEM learning, while exploring solutions to multidisciplinary or transdisciplinary global challenges in either formal or informal settings for learners of all ages and prior educational experience, including learners traditionally under-represented in STEM. Research and development efforts should contribute to both the STEM and STEM education knowledge bases. Example topics include:

• academic civic engagement or research opportunities for low-income students to work on increasing the availability of fresh vegetables or potable water locally or internationally;

• creation of a network of course-based research experiences to inform STEM policy work;

• novel use of social media and flash mob strategies to initiate community Change Maker teams;

• crowd-sourced solutions to clean energy challenge through global, public participation in science.

Research and development projects creating toolkits, micro-credential systems, or other resources that will enable learners to identify and collaboratively work on problems of personal interest are welcome. Investigators are encouraged to share learning environments that result from this work as digital, open education resources for the community.

Mechanisms of Support: Proposers are invited to submit their proposals to one of the following programs, in accordance with program solicitation requirements. Regardless of program, the title of each proposal should begin with "Change Makers":

• For informal learning environments, submit to the Advancing Informal STEM Learning program (AISL, NSF 15-593), due November 8, 2016.

• For PreK-12 learning environments, submit to the Discovery Research PreK-12 program (DRK-12, NSF 15-592), due December 5, 2016

• For undergraduate learning environments, submit to the Improving Undergraduate STEM Education: Education and Human Resources program (IUSE: EHR, NSF 15-585), due November 2, 2016 for Exploration and Design Tier for Engaged Student Learning & Institution and Community Transformation proposals and January 11, 2017 for Development and Implementation Tiers for Engaged Student Learning & Institution and Community Transformation proposals.

• For further guidance on identifying an appropriate program for Change Maker proposals, contact changemakers@nsf.gov.

Questions should be addressed to: changemakers@nsf.gov. This DCL is expected to be in effect from June 15, 2016 through March 1, 2017.
NIH

Modeling Social Behavior for Health Outcomes R01 - PAR-13-374


Deadline: October 5, 2016

Funding: ~$500,000 or more in direct costs in any year, 4 to 5 years

Synopsis: To accomplish the goals of this initiative, NIH encourages applications that build transdisciplinary teams of scientists spanning a broad range of expertise. Minimally this team should include investigators with expertise in the behavioral or social sciences as well as in computational and systems modeling (computer science, mathematics, engineering, or other systems sciences). Applications should demonstrate bridge-building between disciplines, scales and levels.

Specific content areas of research interest include but are not limited to:

1. Emergence of new functionality from simple behaviors
2. Influence of interrelationships between affect and cognitive processing on collective behavior
3. Role of resilience (the ability of a system at the individual, community, population, and society level to recover from a perturbation or crisis) in collective behavior
4. Using social media and internet-based communities and other dynamic social networks to understand principles of collective behavior (e.g., effect of narratives on collective human behavior) and improve human health (e.g., making social networks more robust and sustainable)
5. Using geocoded data in modeling and role in helping understand and influence collective behavior at multiple scales
6. Using “Big Data” and new technologies for research into collective behavior and for monitoring and intervening to improve public health.

I-Corps Team Training Pilot Program for NIH Phase I Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Grantees

PA 16-019


Deadline:

Funding: Additional funds may be awarded as supplements to parent awards

Semiconductor Research Corporation (SRC)
Call for Research in Innovative and Intelligent Internet of Things

https://www.src.org/compete/s201610/

Deadline: White Paper - August 15, 2016 3 pm EST

Synopsis: SRC is soliciting White Papers in Innovative and Intelligent Internet of Things (I3T) and plans to fund a very limited number of projects. White Papers, limited to one page and addressing the needs in a new research Needs Document, can be uploaded until 3 PM ET/12 PM PT, on Monday, August 15, 2016. Each researcher may be involved in at most two submissions. A successful White Paper will result in an invitation to submit a full proposal for further consideration for a research contract, to begin on March 1, 2017. Two-year-only white papers are also acceptable. A successfully selected white paper will result in an invitation to submit a full proposal, with recommendation that the proposal will be written for 2 years or 3 years. These proposals will be further down-selected for research contracts.

National Science Foundation

Dear Colleague Letter: Exploratory Research on High-Efficiency, Monolithic, Two Dissimilar Materials (TDM) Photovoltaics (16-108)


Deadline: September 30, 2016

Funding: Requests may be for up to $300K and of up to two years duration. The award size, however, will be consistent with the project scope and of a size comparable to grants in similar areas.

Synopsis: The purpose of this DCL is to support innovative, exploratory research in materials, fabrication processes, device structure and integration of monolithic, TDM solar cells to achieve energy conversion efficiency beyond 30% at one SUN with cost-effective manufacturability. *Interest in receiving EArly-Concept Grants for Exploratory Research (EAGER) proposals aimed to enable solar cells with energy conversion efficiency reaching 30% and beyond.

Google Research

Google Faculty Awards

http://research.google.com/research-outreach.html#research-outreach/faculty-engagement

Deadline: September 30, 2016. The online application will be available on August 1st.

Funding: $150,000 maximum. median award amount is around 50,000 to 60,000 USD. PI salary and overhead are not allowed.

Synopsis: The Faculty Research Awards Program, sometimes referred to as the Research Awards Program, supports academic research in computer science, engineering, and related fields. Through the program, we fund world-class research at top universities, facilitate interaction between Google and academia, and support projects whose output will be made openly available to the research community. Awards are
structured as unrestricted gifts to universities and are designed to support roughly the cost of one graduate student for one year of work.