

FUNDING OPPs & INFO

For Hajim School Researchers



JULY 20, 2015

WEBINARS, EVENTS

Webinar: Energy Storage on the Electric Grid: The Opportunities, Applications, Markets and Policies Shaping the Industry

Date: Wednesday, July 22 – 1:00 – 2:00 pm EST

Register:

<https://cc.readytalk.com/cc/s/registrations/new?cid=yxp25j99ikdq>

**Webinar - PFI:AIR-TT Webinar on Thursday, July 30
Partnerships for Innovation: Accelerating Innovation Research – Technology Translation (PFI:AIR-TT)**

Date: Thursday, July 30 @ 2:00 pm EST

<http://www.nsf.gov/eng/iip/pfi/air-tt.jsp> go to webinar link

to register

Program Details 15-570

Deadline: Letter of Intent September 8, 2015. Full Proposal: October 09, 2015

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

Synopsis: Funding that will enable research discoveries to be translated onto a path toward commercial reality while engaging faculty and students in entrepreneurial and market-oriented thinking. The PFI:AIR-TT solicitation supports research to overcome technology barriers/knowledge gaps in the translation of NSF-funded fundamental science and engineering discoveries toward market-valued solutions. It provides an opportunity for investigators to conduct the necessary research to develop a proof-of-concept, prototype, or scale-up of the prototype that addresses real-world constraints and provides a competitive value in a potential application space.

Webinar - Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII)

NSF 15-569

Date: August 5 @ 1:00 pm EST

Registration:

http://www.nsf.gov/events/event_summ.jsp?cntn_id=135599&WT.mc_id=USNSF_13&WT.mc_ev=click

Program Synopsis: CRII solicitation seeks to support new faculty by encouraging research independence immediately upon obtaining one's first academic position after receipt of the PhD. CISE will award grants to initiate the course of one's independent research. Understanding

This weekly message from Cindy Gary, Assistant Dean for Grants and Contracts, highlights research funding opportunities and announcements that are particularly relevant to Hajim School faculty, staff and students. If you have any questions, please contact cindy.gary@rochester.edu or call 253-5173.)

the critical role of establishing that independence early in one's career, it is expected that funds will be used to support untenured faculty or research scientists (or equivalent) in their first two years in an academic position after the PhD. To be eligible, the PI may not yet have received any other grants in the Principal Investigator (PI) role from any institution or agency, including from the CAREER program or any other award post-PhD. Serving as co-PI, Senior Personnel, Post-doctoral Fellow, or other Fellow does not count against this eligibility rule. It is expected that these funds will allow the new CISE Research Initiation Initiative (CRII) PI to support one or more graduate students for up to two years. For PIs at undergraduate institutions, the funds may be used to support undergraduate students. In FY2014, three UR faculty received funding from this program. Full proposals are due September 30, 2015.

Talk: NIF: An Unexpected Journey or Lessons Learned to Secure Projects of Scale (National Ignition Facility @ LLNL - A Case Study)

Location: Laboratory for Laser Energetics Coliseum. 250 East River Road

Presentation by E. Mike Campbell, Senior Scientist at LLE

Date: Friday, July 31, 2015 – 9:30-10:30

RSVP: Email Kelly Smith at kelly.smith@rochester.edu or (585) 275-6049 to RSVP by Wednesday July 29. This will assist in security/badges at the LLE coliseum (amphitheater); go to the west entrance – look for flagpole. Parking is in the front of the building.

Background: Dr. E. Michael Campbell, now working with LLE, has worked in the energy and high-technology industry for more than three decades. During this time, he has earned many awards and accolades while developing hybrid technologies and creating inventions to further the energy industry. E. Michael Campbell's research and studies cover the areas of nuclear energy, plasma physics, and solid-state lasers. Some of the awards Campbell has received include the Fusion Power Associate's Leadership Award, the American Physical Society's Excellence in Plasma Physics Award, the American Nuclear Society's Edward Teller Award, and the Department of Energy's E.O. Lawrence Award. In 2005, he received the distinct honor of being named Fellow by the European Institute of Physics.

FUNDING OPPORTUNITIES

Recent limited submission releases – require mini internal application – send to Cindy:

-Simons Foundation Investigators in Mathematics, Physics, and Theoretical Computer Science

Federal Opportunity Number (if relevant): NA

Link to program solicitation/guidelines: <https://www.simonsfoundation.org/mathematics-and-physical-science/simons-investigators/>

Funding Level (funding & duration): \$100,000 per year plus \$10,000 for the 5 years (\$550,000 plus indirect), possible renewal for additional 5 years. Indirect rate is 20%.

Topic/Discipline: Mathematics, Physics, Theoretical Computer Science

Program Synopsis: To support outstanding scientists in their most productive years, when they are establishing creative new research directions, providing leadership in the field, and effectively mentoring junior scientists. Funds may be used at the investigator's discretion to support research expenses, including salary support for postdoctoral, graduate or undergraduate research assistants, domestic or international travel, short or long-term visits, and research equipment. Support for the department can be used at the discretion of the

department chair for seminars, visitors, refreshments, and related expenses that benefit the research activities of the department.

-Simons Investigator: MMLS (Mathematical Modeling of Living Systems)

Federal Opportunity Number (if relevant):NA

Link to program solicitation/guidelines: <https://www.simonsfoundation.org/mathematics-and-physical-science/simons-investigators/>

Funding Level (funding & duration): \$100,000 per year plus \$10,000 for the department for 5 years (\$550,000 plus indirect), possible renewal for additional 5 years. Indirect rate is 20%.

Topic/Discipline: Biology, Biomedical Engineering, Mathematics, Physics, Biostats/Computational Biology

Program Synopsis: To support the development of mathematical models that explain classes of experimental results and suggest new directions for research. A broad spectrum of areas will be considered, ranging from cellular-level issues of organization, regulation, signaling and morphogenic dynamics to the properties of organisms and ecology, as well as neuroscience and evolution with preference for modeling approaches. Bioinformatics and genomics proposals as well as autism and psychology-related proposals will not be considered.

-Simons Foundation Math + X Investigators

Federal Opportunity Number (if relevant):NA

Link to program solicitation/guidelines: <https://www.simonsfoundation.org/mathematics-and-physical-science/simons-investigators/>

Funding Level (funding & duration): \$1,500,000 (\$300,000 per year for 5 years), which includes 20% indirect cost.

Topic/Discipline: Mathematics Department and science or engineering departments that will engage in significant collaboration with the Math department.

Program Synopsis: The program is designed to encourage novel collaborations between mathematics and other fields in science or engineering by providing funds to professors at US and Canadian universities to establish programs at the interface between mathematics and other fields of science or engineering.

National Science Foundation

Division of Behavioral and Cognitive Sciences

Perception, Action & Cognition (PD 09-7252)

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5686&WT.mc_id=USNSF_39&p;WT.mc_ev=click

Deadline(s): August 3, 2015; February 1, 2016

Funding: ~\$100,000 per year

Synopsis: Supports research on perception, action and cognition. Emphasis is on research strongly grounded in theory. Central research topics for consideration by the Perception, Action, and Cognition panel include vision, audition, haptics, attention, memory, reasoning, written and spoken discourse, and motor control. The program encompasses a wide range of theoretical perspectives, such as symbolic computation, connectionism, ecological, nonlinear dynamics, and complex systems, and a variety of methodologies including both experimental studies and modeling. The PAC program is open to co-review of proposals submitted to other programs (e.g., Linguistics, Developmental and Learning Sciences, Cognitive Neuroscience, etc). Proposals may involve clinical populations, animals, or computational modeling only if the work has direct impact on basic issues of human perception, action, or cognition

**National Science Foundation
Restricted-Access Research Data Centers (RDCs)**

NSF 15-586

<http://www.nsf.gov/pubs/2015/nsf15586/nsf15586.pdf>

Deadline: September 30, 2015

Funding: \$100,000 a year over a one-year to three-year period to cover start-up costs for new RDCs

Synopsis: NSF invites proposals for the establishment of new Research Data Centers (RDCs). RDCs are secure Census Bureau facilities within which external researchers are given access to confidential micro data in accordance with specific statutory requirements. NSF will provide start-up costs for new RDC facilities. Potential investigators first must contact Census regarding the feasibility of sponsoring an RDC prior to submitting a proposal to NSF.

Microsoft Research

HoloLens for Research Academic RFP

<http://research.microsoft.com/en-us/projects/hololens/default.aspx>

Deadline: September 5, 2015

Funding: 5 awards up to \$100,000 USD intended to be used for seed-funding larger initiatives, proofs of concept, or demonstrations of feasibility.

Synopsis: Especially welcoming of proposals that come from cross-disciplinary teams Primary goal of this request for proposals (RFP) is to better understand the role and possible applications for holographic computing in society. Additional goals are to stimulate and advance academic research in mixed reality and encourage applications of holograms for novel purposes. Areas of interest (but not limited to): Data visualization; Evolution of pedagogy in STEM, medical, and design education; Future of communication and distributed collaboration; Interactive art and experimental media; Psychology-related topics; and Solving difficult problems and contributing new insights that are specific to the applicant's field. Online application portal:

<https://cmt.research.microsoft.com/HoloLensRFP/Default.aspx>

NIH National Institute of General Medical Sciences (NIGMS)

Maximizing Investigators' Research Award for New and Early Stage Investigators (R35)

RFA-GM-16-003

URL: <http://grants.nih.gov/grants/guide/rfa-files/RFA-GM-16-003.html>

Deadline: Letter of Intent August 9, 2015

Funding: Applications may request up to \$250,000 direct costs per year. Investigators are encouraged to request what is actually well justified for their research program. Cost efficiency is one of the goals of the MIRA program and will be one of the considerations in funding decisions. Applications may request a maximum project period of five years.

Program Synopsis: The Maximizing Investigators' Research Award (MIRA) is a grant to provide support for all of the research in an investigator's laboratory that falls within the mission of NIGMS. The goal of MIRA is to increase the efficiency and efficacy of NIGMS funding. It is anticipated that the new mechanism will:

- Increase the stability of funding for NIGMS-supported investigators, which could enhance their ability to take on ambitious scientific projects and approach problems more creatively.
- Increase flexibility for investigators to follow important new research directions as opportunities arise, rather than being bound to specific aims proposed in advance of the studies.

- More widely distribute funding among the nation's highly talented and promising investigators to increase overall scientific productivity and the chances for important breakthroughs.
- Reduce the time spent by researchers writing and reviewing grant applications, allowing them to spend more time conducting research.
- Enable investigators to devote more time and energy to mentoring junior scientists in a more stable research environment.

The purpose of this FOA is to test the feasibility of this grant mechanism for New and Early Stage Investigators through a pilot program with restricted eligibility.

Eligibility: This FOA targets investigators who are beginning their independent research careers. Applications will be accepted from: a) NIH defined Early Stage Investigators; and b) NIH defined New Investigators who are at the assistant professor rank or hold the equivalent entry level independent investigator position defined by their institution. Postdoctoral fellows, including those on K99 awards, who have not established an independent laboratory, are not eligible to apply. Individuals who have transitioned from the K99 phase to the R00 phase of a NIH Pathway to Independence Award are eligible to apply for a MIRA. PDs/PIs of Mentored Career Development (K) awards are eligible to apply for a MIRA award. Only single PD/PI applications are allowed. Applications with multiple PD(s)/PI(s) will not be accepted. PD/PI must be able to devote 51% of their research effort to the MIRA, not including effort expended toward teaching, administration and/or clinical duties. Effort already committed to research by investigators who are supported by Mentored Career Development (K) awards will be considered to meet the requirement for effort on a MIRA award.

HHS SBIR/STTR

PHS 2015-02 Omnibus Solicitation of the NIH, CDC, FDA and ACF for Small Business Innovation Research Grant Applications (Parent SBIR [R43/R44])

http://grants.nih.gov/grants/guide/pa-files/PA-15-269.html?utm_source=Announce&utm_campaign=90bcd76aa1-90bcd76aa1-72319401
[Omnibus_Reminder_Email+Blast_July&utm_medium=email&utm_term=0_fc1085e209-90bcd76aa1-72319401](http://grants.nih.gov/grants/guide/pa-files/PA-15-269.html?utm_source=Announce&utm_campaign=90bcd76aa1-90bcd76aa1-72319401)

Deadline: September 5, 2015

PHS 2015-02 Omnibus Solicitation of the NIH for Small Business Technology Transfer Grant Applications (Parent STTR [R41/R42])

http://grants.nih.gov/grants/guide/pa-files/PA-15-270.html?utm_source=Announce&utm_campaign=90bcd76aa1-90bcd76aa1-72319401
[Omnibus_Reminder_Email+Blast_July&utm_medium=email&utm_term=0_fc1085e209-90bcd76aa1-72319401](http://grants.nih.gov/grants/guide/pa-files/PA-15-270.html?utm_source=Announce&utm_campaign=90bcd76aa1-90bcd76aa1-72319401)

Deadline: September 5, 2015

Department of Energy

ADVANCED RESEARCH PROJECTS AGENCY – ENERGY (ARPA-E)

DE-FOA-0001002: INNOVATIVE DEVELOPMENT IN ENERGY-RELATED APPLIED SCIENCE (IDEAS)

Mod 3

URL: <https://arpa-e-foa.energy.gov/>

Deadline: September 28, 2015

Synopsis: This FOA is intended to provide rapid support to revolutionary applied energy research (Studies) that may lead to new ARPA-E programs to develop transformational and disruptive energy technologies. Studies are defined as single-phase efforts of durations less than 12 months and cost less than \$500,000. Awards will be issued through Grants.

Alfred P. Sloan Foundation

2016 Sloan Research Fellowship

<http://www.sloan.org/sloan-research-fellowships/>

Deadline: September 15, 2015

Funding: \$50,000 fellowship. Funds may be used for equipment, technical assistance, professional travel, trainee support, or any other activity directly related to the fellow's research

Eligibility: Nominees must hold a Ph.D. (or equivalent) *in chemistry, computational or evolutionary molecular biology, computer science, economics, mathematics, neuroscience, ocean sciences (including marine biology), physics, or a related field*; hold a tenure track (or equivalent) position at a college, university, or other degree-granting institution in the United States or Canada; and be no more than six years from completion of their most recent Ph.D. (or equivalent) as of the year of their nomination.

Synopsis: Nominations are made by department chair. Relevant department chairs were emailed by Paul Spengler July 7. A two-year program designed to stimulate fundamental research by early career scientists and scholars of outstanding promise. Fellowships of \$50,000 are awarded in recognition of distinguished performance and unique potential to make substantial contributions.

National Science Foundation

Directorate for Mathematical and Physical Sciences

Dear Colleague Letter: Unsolicited Proposals for Quantitative Approaches to Biomedical Big Data (QuBBD)

NSF 15-093

http://www.nsf.gov/pubs/2015/nsf15093/nsf15093.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click

Deadline: August 6, 2015

Funding: than \$100,000 in total costs per grant

Synopsis: unsolicited proposals for small one-year planning grants. Address challenges that require inter- and cross-disciplinary teams that include mathematicians, statisticians, and biomedical researchers and engineers to develop models, methods, and approaches that can lead to new insights and lay the groundwork for future advances in precision medicine. NIH, through the Big Data to Knowledge (BD2K) Initiative, will be participating in this effort and plans to jointly sponsor these grants to plan new collaborations at the intersection of the quantitative/computational and biomedical sciences.

INFORMATION OF INTEREST

Limited Submission Opportunities – Internal announcements from the Vice President for Research

Some sponsors limit the number of nominations or proposals that the University may submit to a particular program. The guidelines for these programs require the University to screen applications to determine which applications will be submitted.

These are sent to department chairs who are asked to distribute to faculty in their departments. A list is posted and can be viewed @

<https://www.rochester.edu/orpa/funding/limitedsub.html>

Dear Colleague Letter: Communication About Automated Compliance Checking and Proposal Submission (15-095)

http://www.nsf.gov/pubs/2015/nsf15095/nsf15095.jsp?WT.mc_id=USNSF_25&WT.mc_ev=click

Most common reasons for return without review for proposals previously submitted to the Engineering Directorate

PROJECT SUMMARY

- Should ONLY be uploaded as a PDF if the use of special character is required.
- Must include separate sections labeled "Overview," "Intellectual Merit," and "Broader Impacts" if uploaded as a PDF.

PROJECT DESCRIPTION

- Must include "Results from Prior NSF Support" over the past five years for each PI and Co-PI.
- Must include a section — with a heading — for "Broader Impacts" of the proposed work.

Serve as NSF Panelist: For the 2016 Graduate Research Fellowship Program

NSF's Graduate Research Fellowship Program (GRFP), invites you to register as a potential NSF GRFP panelist for the 2016 program and to share this invitation with faculty in STEM fields at your institution. The program recognizes and supports outstanding graduate students who are pursuing research-based masters and doctoral degrees in science and engineering at accredited US institutions. The GRFP panels differ from other NSF panels in that the individual submissions consist of two statements (one 3-page and one 2-page) and support materials (transcripts and 3 reference letters) similar to those submitted in graduate school applications. We are contacting the PIs of the GRFP awards for your assistance in sharing this invitation with appropriate colleagues in STEM departments at your institution.

***If you would like to be considered as a panelist for the 2016 GRFP panels, please visit <http://www.nsfgrfp.org/panelists/registration> to register in the panelist system.** If you have not served as a panelist for GRFP in the past, you may create a new profile by clicking the "Create New Account" link. If you have registered as a GRFP panelist in the past, you may update your profile by logging in using your email address and password. Once logged in, please upload a PDF copy of either your CV or your NSF BioSketch.

Creating a panelist profile does not commit you to serving as a GRFP panelist. Based on anticipated needs, NSF will send formal invitations to potential registered panelists in our database in late September. Further information can be found here:

<http://www.nsfgrfp.org/panelists>

NSF Awardees Update

NSF is continuing to transition notifications and requests from FastLane to Research.gov, an effort that began in April 2015. The next step in this transition will be rolled out on July 24, 2015, when ten notifications and requests will be released in Research.gov and retired from FastLane. See current GPG Chapter II.A.2 for full list of notifications that apply.

http://www.nsf.gov/pubs/policydocs/pappguide/nsf15001/nsf15_1.pdf