

Office of Research Newsletter – April 11, 2014

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Part I. News and Announcements

Reminder: NSF Limited Solicitation: Research Traineeship (NRT) Program

If you are likely to submit to the NSF Research Traineeship (NRT) program, please inform Dr. Jack Huang in the Office of Research no later than April 28. The Office of Research will select up to two teams to develop proposals in response to the program.

The NRT program is designed to encourage the development of bold, new, potentially transformative, and scalable models for STEM graduate training that ensure that graduate students develop the skills, knowledge, and competencies needed to pursue a range of STEM careers. The program initially has one priority research theme - Data-Enabled Science and Engineering (DESE); in addition, proposals are encouraged on any other crosscutting, interdisciplinary theme. In either case, proposals should identify the alignment of project research themes with national research priorities and the need for innovative approaches to train graduate students in those areas. NRT projects should develop evidence-based, sustainable approaches and practices that substantially improve STEM graduate education for NRT trainees and for STEM graduate students broadly at an institution. NRT emphasizes the development of competencies for both research and research-related careers. Strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, museums, and academic partners that enhance research quality and impacts and that facilitate development of technical and transferrable professional skills are encouraged. Creation of sustainable programmatic capacity at institutions is an expected outcome. Proposals accordingly are expected to describe how institutions will support the continuation and institutional-level scaling of effective training elements after award closure.

The NRT solicitation is available at
http://www.nsf.gov/pubs/2014/nsf14548/nsf14548.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

LOI Due Date: May 20, 2014. Full Proposal Due Date: June 24, 2014

Two More NSF Limited Solicitations

Recently NSF announced the following limited solicitations:

Cultivating Cultures for Ethical STEM

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=252789>

Proposal Due Date: June 17, 2014; February 17, 2015; February 16, 2016; February 15, 2017; February 15, 2018

Innovation Corps Sites Program

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=252947>

Proposal Due Date: June 27, 2014; June 9, 2015; Second Tuesday in June, Annually Thereafter

If you are interested in applying to either program in 2014, please send a quick email to huangj7@rpi.edu no later than May 1. Based on the number of responses, the Office of Research will determine if formal internal calls for white papers should be issued or not.

Data Supporting Decisions Challenge

Department of Health and Human Services (DHHS) recently announced the Data Supporting Decisions Challenge. The Challenge seeks the creation of interactive data visualization tools that communicate complex data from multiple sources in ways that support consumer decision making for value based health care. DHHS is most interested in visualizations that use data about medical services and procedures physicians and other healthcare professionals provide in office and in facility settings, and payments and charges for these services, as they relate to helping consumer decision-making. Participants are encouraged to explore a variety of data sets including <http://data.cms.gov> and <http://healthdata.gov>. Participants may also use externally-developed technical tools such as the Bloom API.

The challenge is broken into two phases. In Phase I, participants will submit a proposal of no more than 750 words describing the use case for their visualization(s), how their approach will address the use case, and the data sources they intend to use. Participants are allowed to use privately-held data exclusive to their own organizations. Proposals may include wireframes, sketches, or other low fidelity designs to support the visualization proposal. Participants must also indicate whether or not they expect to be able to attend Datapalooza. A review panel will select up to ten finalists, which will advance to Phase II.

To register for this Challenge, participants can access <http://www.challenge.gov> and search for “Data Supporting Decisions Challenge.”

Prize:

- First Place: \$20,000
- Second Place: \$10,000
- Third Place: \$5,000

Important Dates:

- Phase I submission period: April 14-April 24, 2014
- Phase I finalist announcement: May 1, 2014
- Phase II development period: May 1-June 2, 2014

More at [http://www.ofr.gov/\(S\(ebknyvhwa1dsagfe05mfljot\)\)/OFRUpload/OFRData/2014-07985_PI.pdf](http://www.ofr.gov/(S(ebknyvhwa1dsagfe05mfljot))/OFRUpload/OFRData/2014-07985_PI.pdf)

A Weekly Newsletter from DOE Office of Energy Efficiency and Renewable Energy (EERE): <http://apps1.eere.energy.gov/news/enn.cfm>

MARK YOUR CALENDAR

Save the Date - Rensselaer-Mount Sinai Symposium on Regenerative Medicine May 2, 2014, 1-5 PM , Hatch Auditorium

Please save the date for the Symposium that will highlight collaborative opportunities in regenerative medicine between Mount Sinai and Rensselaer focused on biomaterials, stem cells, medical devices, artificial organs and drug delivery. A detailed program and invitation will follow.

May 6-8, 2014, Wilmington, Delaware

The 16th Meeting of the Symposium on Polymers for Microelectronics

More at <http://www.symposiumonpolymers.com/>

May 20-21, 2014, USDA Conference & Training Center, Patriots Plaza III, 355 E Street, SW, Washington, DC 20024

USDA will be organizing a “Cellulose Nanomaterial – A Path Towards Commercialization” workshop in collaboration with and co-sponsored by the National Nanotechnology Initiative (NNI). This workshop will bring together high level executives from government and multiple industrial sectors to identify pathways for the commercialization of cellulose nanomaterials and facilitate communication across industry sectors to determine common challenges.

The primary goal of the workshop is to identify the critical information gaps and technical barriers in the commercialization of cellulose nanomaterials with expert input from user communities. The workshop also supports the announcement last December by USDA Secretary Thomas Vilsack regarding the formation of a public-private partnership between the USDA Forest Service and the U.S. Endowment for Forestry and Communities to rapidly advance the

commercialization of cellulose nanomaterials. In addition, the workshop supports the goals of the NNI Sustainable Nanomanufacturing Signature Initiative.

More at <http://www.nano.gov/ncworkshop>

June 30-July 2, 2014, Boston, MA

CSP Symposium at ASME 2014 8th International Conference on Energy Sustainability

More at <http://www.asmeconferences.org/ESFuelCell2014/TechnicalTracks.cfm>

August 17-21, 2014, San Diego, CA

Solar Energy + Technology 2014 Symposium

More at <http://spie.org/x13194.xml>

Part II. Funding Opportunities

AFRL

Advanced Energy Efficient Shelter Technologies

https://www.fbo.gov/index?s=opportunity&mode=form&id=3467e5c22749e2d1735aceb0e62eba8e&tab=core&_cview=0

May 8, 2014

Research of Technologies Advancing Corrosion Prevention and Control

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=253515>

White Paper Due Date: May 9, 2014

Army

Ground Vehicle Technologies

https://www.fbo.gov/index?s=opportunity&mode=form&id=23a1d962e91cc424b1d86111fbac6c5e&tab=core&_cview=0

May 9, 2014

DARPA

Directed Assembly Manufacturing RFI

https://www.fbo.gov/index?s=opportunity&mode=form&id=e35cad2f1bae557f35f1fb79db4ab755&tab=core&_cview=0

April 24, 2014

DOE

Wind Forecasting Improvement Project in Complex Terrain

<https://eere-exchange.energy.gov/#FoaId640c62d4-e8f5-4ee4-a471-51ea83c02111>

Concept Paper Due Date: May 5, 2014. Full Application Due Date: June 5, 2014

NASA

Game Changing Opportunities in Technology Development: the Advanced Energy Storage Systems Appendix

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=253631>

NOI Due Date: April 25, 2014. Proposals Due Date: May 27, 2014

The Advanced Energy Storage Systems Appendix is managed by the Game Changing Development Program within NASA's Space Technology Mission Directorate (STMD), and is part of STMD's NASA Research Announcement "Space Technology Research, Development, Demonstration, and Infusion 2014" (SpaceTech-REDDI-2014) for research in high priority technology areas of interest to NASA.

Heliophysics Infrastructure and Data Environment Enhancements

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={FC73C9D9-1513-6714-962E-AE175D7E7E0A}&path=open>

May15, 2014 (Step 1) July 17, 2014 (Step 2)

Ocean Biology and Biogeochemistry: Ocean Color Remote Sensing Vicarious (In Situ) Calibration Instruments

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={E9007FB5-975A-A0C9-B8C6-8D65C78D5552}&path=open>

NOI Due Date: May 16, 2014. Full Application Due Date: June 19, 2014

Astrophysics Theory

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={32BB180C-3CC1-2725-7E76-D9120E05B13B}&path=open>

NOI Due Date: May 16, 2014. Full Application Due Date: July 11, 2014

Solar System Workings

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={AE489E38-6A74-5545-0E38-713A64E43EB3}&path=open>

May 23, 2014 (Step 1) July 25, 2014 (Step 2)

Ocean Salinity Field Campaign

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={36D1A475-BAB2-EDCF-7608-37B93DD0E43E}&path=open>

NOI Due Date: May 30, 2014. Full Application Due Date: July 30, 2014

NIH

Agricultural, Forestry and Fishing Safety and Health Research (U01)

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-175.html>

LOI Due Dates: May 5, 2014; September 26, 2014. Application Due Dates: June 9, 2014; October 31, 2014

Development of Realistic In Vitro Studies to Assess Robustness of Dose Counters/Indicators in Metered Dose Inhalers (U01)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-025.html>

June 1, 2014

Brain Somatic Mosaicism and its Role in Psychiatric Disorders (U01)

<http://grants.nih.gov/grants/guide/pa-files/PA-14-173.html>

June 24, 2014; February 24, 2015; October 23, 2015; June 24, 2016; February 24, 2017

Dimensional Approaches to Research Classification in Psychiatric Disorders (R01)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-15-500.html>

LOI Due Date: September 3, 2014. Application Due Date: October 3, 2014

Request for Information (RFI): Optimizing Lead Therapeutic Compounds Against Infectious Pathogens

<http://grants.nih.gov/grants/guide/notice-files/NOT-AI-14-043.html>

NSF

Limited Solicitation: International Research Network Connections (IRNC)

http://www.nsf.gov/pubs/2014/nsf14554/nsf14554.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

July 7, 2014

Advancing Informal STEM Learning (AISL)

http://www.nsf.gov/pubs/2014/nsf14555/nsf14555.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

July 10, 2014 (Science Learning/Planning Proposal); November 14, 2014 (AISL Proposal)

Linguistics Program - Doctoral Dissertation Research Improvement Awards

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=253465>

July 15, 2014; July 15, Annually Thereafter; January 15, 2015; January 15, Annually Thereafter

GeoPrisms Program

http://www.nsf.gov/pubs/2014/nsf14556/nsf14556.htm?WT.mc_id=USNSF_179

August 1, 2014; July 1, 2015; July 1, Annually Thereafter

EarthScope

http://www.nsf.gov/pubs/2014/nsf14552/nsf14552.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

August 25, 2014; August 23, Annually Thereafter

DOC

Institutional Research Forums on Atmospheric, Climate, and Ocean Sciences Grant

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=253635>

May 12, 2014

DOJ

Social Science Research on Implementation, Dissemination, and Translation FY 2014

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=253642>

June 9, 2014

DOT

Recognizing Aviation and Aerospace Innovation in Science and Engineering Awards

[http://www.ofr.gov/\(S\(ghlmmzmmx4bodqh5z23i3rah\)\)/OFRUpload/OFRData/2014-07699_PI.pdf](http://www.ofr.gov/(S(ghlmmzmmx4bodqh5z23i3rah))/OFRUpload/OFRData/2014-07699_PI.pdf)

October 31, 2014

Please note that this bulletin is not intended to be an exhaustive listing of funding opportunities. Your input and feedback are always welcome. Please send your comments and requests to be removed from the distribution list to huangj7@rpi.edu.