

Office of Research Newsletter – May 2, 2014

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Part I. News and Announcements

Science Learning+

Science Learning+ is an international partnership established by NSF, the UK-based Wellcome Trust and the UK Economic and Social Research Council in collaboration with the MacArthur Foundation, the Gordon and Betty Moore Foundation, and the Noyce Foundation. The program will provide up to \$14.4 million to support research into how learning happens outside the classroom, exploring the most effective practices and building the evidence base in this area. Science Learning+ funding is particularly aimed at encouraging collaborative projects between researchers and practitioners in the US and UK, developing stronger links and partnerships internationally, and building a learning community for exchanging experience and expertise.

More at http://nsf.gov/funding/pgm_summ.jsp?pims_id=504793

Reminder: Applications for Grand Challenges Explorations Due By May 6

Grand Challenges Explorations, an initiative to encourage innovative and unconventional global health and development solutions, is now accepting grant proposals for its latest application round. Applicants can be at any experience level, in any discipline, and from any organization. Two-page proposals are being accepted online until May 6, 2014 on the following topics:

- New Ways of Working Together: Integrating Community-Based Interventions
- Explore New Ways to Measure Fetal and Infant Brain Development
- Innovations in Feedback & Accountability Systems for Agricultural Development
- Inciting Healthy Behaviors: nudge, leapfrog, disrupt, reach

- Novel Enabling Tools and Models Supporting the Development of Interventions for Severe Diarrhea and Enteric Dysfunction

Initial grants will be US \$100,000 each, and projects showing promise will have the opportunity to receive additional funding of up to US \$1 million. Full descriptions of the new topics and application instructions are available at: www.grandchallenges.org/explorations.

ARPA-E Challenge: Macroscopic Composites with Nanoscale Order

This challenge will focus on ARPA-E's [REACT program](#), which aims to develop cost-effective alternatives to rare earths, or the naturally occurring minerals with unique magnetic properties that are used in electric vehicle motors and wind generators. To help further the objectives of its REACT program, ARPA-E is seeking ideas for materials and processes that could make macroscopic materials with well-defined nanoscale order.

ARPA-E is working with InnoCentive, a leader in crowdsourcing innovation problems, to undertake this challenge. Winners of this crowdsourced challenge could receive up to \$10,000. To learn more and to submit a solution, please visit <https://www.innocentive.com/ar/challenge/9933436>

The deadline for solutions is May 23, 2014.

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

MARK YOUR CALENDAR

May 6-8, 2014, Wilmington, Delaware

The 16th Meeting of the Symposium on Polymers for Microelectronics

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

May 14, 2014, Microsoft Innovation & Policy Center, Washington, DC

Conversation on Energy: How the Internet of Things Can Build Sustainable 21st Century Communities

Cities face a number of challenges from providing adequate transportation to improving energy efficiency to conserving water. From the smart grid to smart parking, the emergence of the Internet of Things (IoT)—smart, Internet-connected devices—has created new opportunities for cities to leverage technology to offer new services to their citizens, optimize the efficiency of existing services, and improve the overall sustainability of their communities. Learn about how industry leaders are helping cities minimize strain on scarce government resources while engaging citizens and businesses with apps, social media, and collaboration tools that enable real-time access to information and services at the Microsoft Innovation & Policy Center on May 14.

RSVP: www.iplanevents.com/ConversationonEnergy.

May 16, 2014, Microsoft Innovation & Policy Center, Washington, DC
Intelligent Systems and Robotics: How Will These Technologies Interact with Policy?

RSVP: www.iplanevents.com/ConversationonEnergy.

June 6, 2014, AMRI, 26 Corporate Circle, Albany

Bioconnex will host the 3rd Annual Capital Region Commercialization of Life Sciences Innovation Day on June 6, 2014 at AMRI Corporate Headquarters. Research abstracts are currently being accepted and the deadline to submit is May 16th.

More at

https://www.informz.net/ceg/data/images/Bioconnex/2014_CRCLSID_Call_for_Abstracts&Guidelines.pdf

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

DOD

Missile Defense Agency STEM Outreach B.E.S.T. Robotics Grant
<http://www.grants.gov/web/grants/view-opportunity.html?oppId=254402>
May 12, 2014

DOD Autism Clinical Trial Award
<http://www.grants.gov/web/grants/view-opportunity.html?oppId=254351>
Pre-Application Due Date: June 10, 2014. Application Due Date: October 7, 2014

DOD Autism Idea Development Award
<http://www.grants.gov/web/grants/view-opportunity.html?oppId=254352>
Pre-Application Due Date: June 10, 2014. Application Due Date: October 7, 2014

DOD Peer Reviewed Orthopaedic Clinical Trial Award
<http://www.grants.gov/web/grants/view-opportunity.html?oppId=254519>
Pre-Application Due Date: June 27, 2014. Application Due Date: October 24, 2014

DOD Peer Reviewed Orthopaedic Translational Research Award

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=254522>

Pre-Application Due Date: June 27, 2014. Application Due Date: October 24, 2014

DOD Peer Reviewed Orthopaedic Idea Development Award

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=254521>

Pre-Application Due Date: June 27, 2014. Application Due Date: October 24, 2014

AFRL

Robotics and Automation Technologies for Airbase Operations

https://www.fbo.gov/index?s=opportunity&mode=form&id=d27809b682c31ba4d6fe2fcdebacae5f&tab=core&_cview=0

May 25, 2014

Research of Aerospace Systems Technologies

https://www.fbo.gov/index?s=opportunity&mode=form&id=8a2e1894fb739c7df2f4992e602cc239&tab=core&_cview=0

June 16, 2014

DARPA

Hand Proprioception

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=254271>

Abstract Due Date: May 27, 2014

System of Systems Integration Technology and Experimentation

https://www.fbo.gov/index?s=opportunity&mode=form&id=fdcd1a1747e33c625e411b106d3994ed&tab=core&_cview=0

June 13, 2014

Innovative Systems for Military Missions

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=254308>

Executive Summary Due Date: January 9, 2015. White Paper Due Date: February 6, 2015.

Proposal Due Date: April 24, 2015

DOE

Zero Emission Cargo Transport Demonstration

<https://eere-exchange.energy.gov/#FoaId7d6035cc-c47c-4f36-a100-030fc8ab682c>

June 11, 2014

Methane Observation Networks with Innovative Technology to Obtain Reductions (MONITOR)

<https://arpa-e-foa.energy.gov/#FoaIdb5487723-6c6b-40d6-8336-4031b8423e66>

Concept Paper Due Date: June 13, 2014

Delivering Efficient Local Thermal Amenities (DELTA)

<https://arpa-e-foa.energy.gov/#FoaId5f8d77cf-eea3-4fd6-a595-bc96576d097a>

Concept Paper Due Date: June 13, 2014

Environmentally-Prudent Unconventional Resource Development

<https://www.fedconnect.net/fedconnect/?doc=DE-FOA-0001076&agency=DOE>

June 27, 2014

NASA

DSCOVr Earth Science Algorithms

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={367F70DC-B8E6-17B1-4308-DEEDF7B7E9A1}&path=open>

NOI Due Date: May 12, 2014. Proposal Due Date: July 14, 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. Proposal Due Date: June 11, 2014

WFIRST Preparatory Science (WPS)

<https://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId=%7b8CF951EC-9256-B1D2-DA4E-F4E4246D077B%7d&path=open>

NOI Due Date: May 16, 2014. Proposal Due Date: July 11, 2014

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. Proposal Due Date: June 19, 2014

Carbon Monitoring System: Continuing Prototype Product Development, Research, and Scoping

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={41E74515-E19D-72E5-3111-41FE7A816E29}&path=open>

NOI Due Date: May 19, 2014. Proposal Due Date: June 17, 2014

Advanced Information Systems Technology

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={ED131A2F-99C8-652D-FDAA-711D580EF045}&path=open>

NOI Due Date: May 21, 2014. Proposal Due Date: June 11, 2014

Heliophysics Infrastructure and Data Environment Enhancements

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

May 23, 2014 (Step 1); July 24, 2014 (Step 2)

NIH

Morris K. Udall Centers of Excellence for Parkinson's Disease Research (P50)

<http://grants.nih.gov/grants/guide/rfa-files/RFA-NS-14-003.html>

LOI Due Date: May 30, 2014. Application Due Date: June 30, 2014

Unconventional Roles of Ethanol Metabolizing Enzymes, Metabolites, and Cofactors in Health and Disease (R01)

<http://grants.nih.gov/grants/guide/pa-files/PA-14-198.html>

June 5, 2014; October 5, 2014

Centers of Excellence in Genomic Science (CEGS) (RM1)

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-195.html>

July 2, 2014; May 20, 2015; May 20, 2016

Environmental Contributors to Autism Spectrum Disorders (R21)

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-202.html>

LOI Due Date: July 26, 2014. Application Due Dates: August 26, 2014; August 26, 2015; August 26, 2016

Environmental Contributors to Autism Spectrum Disorders (R01)

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-203.html>

August 26, 2014; August 26, 2015; August 26, 2016

NSF

Biological Anthropology Program - Doctoral Dissertation Research Improvement Grants

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=254400>

July 28, 2014; March 12, 2015; November 10, 2015; July 14, 2016; March 9, 2017; November 9, 2017; July 11, 2018; March 14, 2019; November 14, 2019; July 9, 2020

Wireless Innovation between Finland and US (WiFiUS)

<http://www.nsf.gov/pubs/2014/nsf14563/nsf14563.htm>

August 1, 2014

Cultural Anthropology Program - Doctoral Dissertation Research Improvement Grants (CA-DDRIG)

http://www.nsf.gov/pubs/2014/nsf14560/nsf14560.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

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

NEH

Humanities Collections and Reference Resources

<http://www.grants.gov/web/grants/view-opportunity.html?oppId=254398>

July 17, 2014

Foundations

2015 Vilcek Prizes for Creative Promise in Biomedical Science

The Vilcek Foundation is seeking applications for the 2015 Vilcek Prizes for Creative Promise in Biomedical Science. Three foreign-born biomedical scientists will be selected to receive the prizes, each including a cash award of \$50,000.

Researchers in all fields of biomedical science are encouraged to apply. Applicants must have been born abroad, be naturalized citizens or permanent residents of the United States, hold a doctoral degree, intend to pursue a career in the United States, and be no more than 38 years old as of December 31, 2014. In addition, they must also hold a full-time independent position at an academic institution or other organization.

A panel of distinguished members of the scientific community will select the recipients of the prizes. The jury will consider the candidates' innovation, independence, creativity, clarity of vision, and impact on the field of biomedical research.

A written application, professional résumé, list of publications, and letters of recommendation are required. The deadline for submissions is June 10, 2014. Eligibility requirements and a link to the online application can be found at Vilcek.org.

The winners will be notified by November 2014 and honored at the Foundation's annual awards ceremony, in New York City, in the spring of 2015.

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.