# Office of Research Newsletter – March 21, 2014

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## *Part I. News and Announcements*

**Open Innovative Development in Energy-Related Applied Science (Open Ideas)**

This ARPA-E Funding Opportunity Announcement 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. This announcement is purposely broad in scope to encourage the submission of the most innovative, out-of-the-box ideas in energy technology.

More at https://arpa-e-foa.energy.gov/#FoaIda8bdd9ec-2cb7-4349-8184-4dde00c77663

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**DOE Office of Energy Efficiency and Renewable Energy Releases H2 Refuel H-Prize Draft Guidelines for Public Comment**

DOE recently announced the release of the H2 Refuel H-Prize Draft Guidelines for public comment. The Energy Independence and Security Act authorized the H-Prize to competitively award prizes for advances in hydrogen energy technologies in order to accelerate and reward breakthroughs in notable scientific and engineering challenges, while engaging a broad range of participants. The $1 million H2 Refuel H-Prize challenges America's engineers and entrepreneurs to develop affordable systems for small-scale, non-commercial hydrogen fueling, at homes or multi-use sites that can supplement the current development of hydrogen fueling station infrastructure. Successful entries will install and test systems that generate hydrogen from resources available to most homes, electricity and natural gas, and dispense the hydrogen into

vehicles. Winners will demonstrate that they can meet both the technical and cost criteria as outlined in the final guidelines.

More at http://www.ofr.gov/(S(v5dhfbzifffvy5wq2bbadyst))/OFRUpload/OFRData/2014-06193_PI.pdf

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**Energy Efficiency and Renewable Energy (EERE) Postdoctoral Research Awards Due by April 30**

The EERE Postdoctoral Research Awards support EERE's mission in energy efficiency and renewable energy by offering recent Ph.D. recipients the opportunity to conduct applied research at universities, national laboratories, and other research facilities.

Application Deadline April 30, 2014.

More at http://www1.eere.energy.gov/education/postdoctoral/index.html

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

***MARK YOUR CALENDAR***

**April 1, 2014, Washington, DC**
*Big Data, Life Sciences, & National security*

Big data and analytics are increasingly becoming vital components in the pursuit of advanced applications for scientific knowledge development, health care analyses, and global health security. Big data and analytics in the biological sciences might also present risks and unique challenges to national and international security. This event will bring together scientists across a range of disciplines, security professionals, and science and security policy experts to explore ways to leverage the beneficial applications and identify potential risks of big data and analytics to biological security.

More at http://www.aaas.org/event/big-data-life-sciences-and-national-security

**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*

## *DOD*

**FY14 Pre-announcements:**
Bone Marrow Failure Research Program (BMFRP)
Neurofibromatosis Research Program (NFRP)
Multiple Sclerosis Research Program (MSRP)
Ovarian Cancer Research Program (OCRP)
Peer Reviewed Cancer Research Program (PRCRP)
Peer Reviewed Medical Research Program (PRMRP)
Tuberous Sclerosis Complex Research Program (TSCRP)
More at http://cdmrp.army.mil/pubs/press/press.shtml

## *AFRL*

**RFI: Aerial Layer Communications**
https://www.fbo.gov/index?s=opportunity&mode=form&id=fd10926d0848860dd09701b1ab424de2&tab=core&_cview=0
Proposal Due Date TBD

***DARPA***

**Laser UV Sources for Tactical Efficient Raman (LUSTER)**
http://www.grants.gov/web/grants/view-opportunity.html?oppId=252500
Abstract Due Date: April 11, 2014. Proposal Due Date: June 25, 2014

**Cyberspace Operations Research and Development**
https://www.fbo.gov/index?s=opportunity&mode=form&id=b32c9c73cd35666ebf659cf27623aae5&tab=core&_cview=0
March 12, 2015

***DOE***

**Theoretical Research in Magnetic Fusion Energy Science**
http://www.grants.gov/web/grants/view-opportunity.html?oppId=252697
LOI Due Date: April 25, 2014. Application Due Date: June 19, 2014

**FY 2014 Methane Hydrates**
http://www.grants.gov/web/grants/view-opportunity.html?oppId=252494
May 22, 2014

***NASA***

**Solar System Observations Grant**
http://www.grants.gov/web/grants/view-opportunity.html?oppId=252614
April 7, 2014 (Step 1); June 6, 2014 (Step 2)

**Exobiology Grant**
http://www.grants.gov/web/grants/view-opportunity.html?oppId=252615
April 14, 2014 (Step 1); June 3, 2014 (Step 2)

**Maturation of Instruments for Solar System Exploration**
http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={9F7E58C1-C5D6-1195-8538-1283B2651596}&path=open
April 21, 2014 (Step 1); June 20, 2014 (Step 2)

***NIH***

**Dissolution Methods for Semisolid Ocular Drug Products (U01)**
http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-008.html

May 1, 2014

**Dissolution Methods for Microsphere and Implant Drug Products (U01)**
http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-007.html
May 1, 2014

**Pharmacometric  Modeling and Simulation for Generic Drugs Evaluation (U01)**
http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-011.html
June 1, 2014

**Characterization of Critical Quality Attributes for Semisolid Topical Drug Products (U01)**
http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-010.html
June 1, 2014

**Convener of Discussions on Medical Policy Issues Impacting Drug Development (U13)**
http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-003.html
June 1, 2014

**Physiologically Based Absorption and Pharmacokinetic Modeling and Simulation for Non-gastrointestinally Absorbed Drug Products in Humans (U01)**
http://grants.nih.gov/grants/guide/rfa-files/RFA-FD-14-012.html
June 1, 2014

***NSF***

**Limited Solicitation: Scalable Nanomanufacturing (SNM)**
http://www.nsf.gov/pubs/2014/nsf14544/nsf14544.htm?WT.mc_id=USNSF_25&WT.mc_ev=click
Proposal Due Date: June 16, 2014. Please inform Jack Huang in the Office of Research by April 4 if you are interested in applying.

**Coupling, Energetics, and Dynamics of Atmospheric Regions (CEDAR)**
http://www.nsf.gov/pubs/2014/nsf14545/nsf14545.htm?WT.mc_id=USNSF_25&WT.mc_ev=click
July 17, 2014; July 17, Annually Thereafter

***ED***

**Investing In Innovation (I3) Fund**
http://www.grants.gov/web/grants/view-opportunity.html?oppId=252521
NOI Due Date: April 3, 2014. Pre-application Due Date: April 14, 2014

***USAID***

**Pacific-American Climate Fund - Call for Concept Papers**
http://www.grants.gov/web/grants/view-opportunity.html?oppId=252524

April 30, 2014; June 30, 2014; September 30, 2014; December 30, 2014; March 5, 2015

## *USDA*

**National Institute of Food and Agriculture Specialty Crop Research Initiative Grant**
http://www.grants.gov/web/grants/view-opportunity.html?oppId=252593
LOI Due Date: April 11, 2014. Invited Full Application Due Date: June 20, 2014

**Organic Agriculture Research and Extension Initiative Grant**
http://www.grants.gov/web/grants/view-opportunity.html?oppId=252594
May 8, 2014

## *Foundations*

**Walmart US Manufacturing Innovation Fund**
http://corporate.walmart.com/global-responsibility/us-manufacturing/walmart-us-manufacturing-innovation-fund
April 22, 2014

The Walmart U.S. Manufacturing Innovation Fund, a collaboration among Walmart, the Walmart Foundation, and the United States Conference of Mayors, is dedicated to supporting the development of U.S. manufacturing, with the specific goal of making it more feasible and competitive to make consumer goods in the U.S. Over the next five years, the Walmart U.S. Manufacturing Innovation Fund expects to award approximately $10M to applied research projects.

During its first cycle, the Walmart U.S. Manufacturing Innovation Fund will prioritize innovation in manufacturing processes for textiles manufacturing (including weaving, fabric dyeing, and cut-and-sew) as well as common processes with broad application to many consumer goods (such as tooling for plastic injection molding and small motor manufacturing). Applications for projects that address other manufacturing processes will also be considered, though priority will be given to strong application that address one of the selected focus areas. Submissions of letters of inquiry to the Walmart U.S. Manufacturing Innovation Fund are due by April 22, 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.*