

## **ESPP Funding Opportunities: Feb. 1, 2015**

### **OPPORTUNITIES FOR STUDENTS and RECENT GRADUATES**

#### **Nuclear Energy University Programs - Fellowship and Scholarship**

This program supports education and training for future nuclear scientists, engineers and policy-makers who are attending U.S. universities and colleges in nuclear-related graduate, undergraduate and two-year study programs. These are zero-dollar awards that will be funded as students apply through the Department of Energy, Office of Nuclear Energy.

*Nov. 30, 2015*

#### **International Research Scientist Development Award PAR-13-072**

The purpose of the Fogarty International Center (FIC) International Research Scientist Development Award (IRSDA) is to provide support and protected time (three to five years) to advanced postdoctoral (at least two years beyond conferral of doctoral degree) U.S. research scientists for an intensive, mentored research career development experience in a low- or middle-income country (LMIC) as defined by the World Bank (<http://data.worldbank.org/about/country-classifications/country-and-lending-groups>; low-income, lower-middle-income, and upper-middle-income countries are included) leading to an independent research career focused on global health. FIC invites K01 applications from biomedical, epidemiological, clinical, biostatistical, social and behavioral scientists in the formative stages of their research careers.

*March 4, 2015*

### **OPPORTUNITIES FOR FACULTY**

#### **Transitional Technology Development to Enable Highly Efficient Power Systems with Carbon Management DE-FOA-0001238**

The United States Department of Energy National Energy Technology Laboratory (NETL) is seeking innovative research and development of the key crosscutting technologies (sensors and controls, high performance materials, simulation based engineering, and water management research) to enable development of next generation advanced energy systems. These technologies will contribute to the goals of high efficiency, near-zero emissions, and effective carbon capture for the next generation energy systems. Innovations in these areas are being supported by NETL's Crosscutting Research Program which aims at bridging the gap between the basic sciences and applied research as it relates to Advanced Energy Systems that utilize domestic resources. Long range transitional type research is needed to support the identification and growth of novel concepts that will lead to scientific breakthroughs and early adoption of innovative concepts into applications for power generation. It is envisioned that the projects will involve multi-organizational teams with phased projects that consider, in part, the needs and interest of the fossil power generation community as a whole, as well as accelerating the development and deployment of crosscutting technologies.

*March 30, 2015*

#### **Basic Research to Enable Agricultural Development NSF 15-538**

The Basic Research to Enable Agricultural Development (BREAD) Program was established in 2009 as a National Science Foundation (NSF) program supported in partnership with the Bill & Melinda Gates Foundation (BMGF). The goal of BREAD is to support innovative basic scientific research designed to address key constraints to smallholder agriculture in the developing world. Proposals submitted to BREAD must make a clear and well-defined connection between the outcomes of the proposed basic research and its direct relevance and potential application to agriculture in the developing world. In FY 2015, activities in two focus areas will be supported: (1) Developing High Throughput, Low Cost Phenotyping Tools and Devices to facilitate assessment of field-based phenotypes, especially for root and tuber crops (PHENO), and (2) Advancing Basic Research in Crop Plants Relevant to Smallholder Agriculture in Developing Countries (ABRDC) to develop critically needed sequence and functional genomics resources to enable basic and applied research in crop plants important for smallholder agriculture. As in past competitions, proposals are expected to address project outcomes in the context of broader societal impacts, and as appropriate to the research proposed, engage international partners in scientific collaborations.

*April 27, 2015*

### **Social and Behavior Change communication for Health (SBCC-Health Project) Ethiopia**

The United States Agency for International Development is seeking applications for assistant agreements to support a program entitled Social and Behavior Change Communication for Health, Ethiopia. The overall goal of the program is to build the capacity of Federal Ministry of Health (FMoH) with regards to SBCC interventions while also developing effective messages and coordinating SBCC messaging across stakeholders.

*March 12, 2015*

### **Cooperative Ecosystem Studies Unit, Southern Appalachian CESU**

The USGS is offering a funding opportunity to a CESU partner for research in assessing remedy effectiveness assessments at Great Lakes Areas of Concern (AOCs). These AOCs suffer from a legacy of sediment contamination by legacy pollutants such as organic contaminants, mercury, and trace metals. Remediation of AOCs is managed through the US EPA Great Lakes National Program Office (GLNPO). Each AOC is listed for a defined set of Beneficial Use Impairments (BUIs) such as fish consumption advisories. In order for EPA to petition for delisting an AOC, all BUIs have to be removed, indicating that the AOC has recovered to some baseline, reference or pre-defined condition. GLNPO, under the Great Lakes Legacy Act, is responsible for managing and remediating AOCs in order to remove BUIs. However, many questions remain regarding the best ways to assess the effectiveness of remedies employed at AOCs and other large contaminated sediment sites.

*Feb. 13, 2015*

### **Promoting Research and Innovation in Methodologies for Evaluation NSF 15-540**

The Promoting Research and Innovation in Methodologies for Evaluation (PRIME) program seeks to support research on evaluation with special emphasis on: (1) exploring innovative approaches for determining the impacts and usefulness of STEM education projects and programs; (2) building on and expanding the theoretical foundations for evaluating STEM education and workforce development initiatives, including translating and adapting approaches from other fields; and (3)

growing the capacity and infrastructure of the evaluation field. Three types of proposals will be supported by the program: Exploratory Projects that include proof-of-concept and feasibility studies; more extensive Full-Scale Projects; and conferences.

*April 30, 2015*

**Agriculture and Food Research Initiative: Food Security Challenge Area** USDA-NIFA-AFRI-004875

The goal of the Food Security Challenge Area for FY 2015 is to develop agricultural production research, education, and extension to develop more sustainable, productive, and economically viable plant and animal production systems. This program will also develop regionally adapted crop cultivars and livestock/breeds that contribute to rural economic development and prosperity while enhancing food security. These investments will increase food security by improving agricultural production systems at the regional and national levels and by encouraging diversification of agricultural production.

*June 4, 2015*

**Environmental Health Specialists Network - Practice based research to improve food safety**  
**RFA-EH-15-001**

The Environmental Health Specialists Network (EHS-Net) is a collaborative forum of environmental health specialists who work together to improve environmental health practice. EHS-Net seeks to improve the practice of environmental health service programs by developing and sustaining a network of environmental health specialists (EHS) who collaborate with epidemiologists, laboratorians and other public health professionals to conduct practice-based research to identify and prevent environmental risk factors contributing to foodborne illness. For information on EHS-Net activities, please visit <http://www.cdc.gov/nceh/ehs/EHSNet/index.htm>. This announcement will fund EHS-Net-related research projects for food safety activities under the jurisdiction of departments of health or other agencies responsible for regulatory oversight of retail food service including restaurants, delis, cafeterias, schools, etc.

*April 10, 2015*

**Systems Biology and Antibacterial Resistance** Department of Health and Human Services, National Institutes of Health

This Funding Opportunity Announcement (FOA) solicits applications that use a multi-disciplinary systems biology approach to study the molecular interaction networks of the pathogen and the host in association with antibacterial resistance or in response to treatment of antibacterial resistant infections. The applications focus must be on bacterial pathogens with established antibacterial resistance. This FOA will not support applications focused on drug-resistant tuberculosis.

*July 9, 2015*

**ROSES 2014: HypsIRI Preparatory Airborne Activities and Associated Science: Coral Reef and Volcano Research**

This ROSES-2014 NRA (NNH14ZDA001N) solicits basic and applied research in support of NASA's Science Mission Directorate (SMD). This NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, scientific balloon, sounding rocket, International Space Station, CubeSat, and suborbital reusable launch vehicle investigations; development of experiment

techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware).

*April 1, 2015*

### **Support of Advanced Coal Research at United States Colleges and Universities**

For 35 years through the University Coal Research (UCR) program, the U.S. Department of Energy's (DOEs) Office of Fossil Energy and the National Energy Technology Laboratory have solicited applications from U.S. colleges and universities. Annually, through this Funding Opportunity Announcement, research is sought to advance the science and technology of coal conversion and utilization. These proposals are evaluated by internal and external reviewers from DOE and industry, and the most meritorious proposals are selected for financial assistance under the UCR program.

*March 6, 2015*

### **Migratory Bird Conservation in the Midwest F15AS00079**

This announcement solicits proposals for the U.S. Fish and Wildlife Service's Midwest Bird Conservation Program, covering the states of IL, IN, IA, MI, MN, MO, OH, and WI, as well as nonbreeding season areas important for birds breeding in the Midwest. In 2015, our grant program will focus on: implementing the Midwest Landbird Migration Monitoring Network, supporting State Breeding Bird Atlases in the Midwest, and addressing information needs for conserving Golden winged and Blue winged warblers on their wintering grounds. For further details, please see the Notice of Funding Available and Application Instructions posted under the "Application Package" tab.

*March 2, 2015*

### **Mechanism for Time-Sensitive Research Opportunities in Environmental Health Sciences PAR-13-136**

This funding opportunity announcement (FOA) is intended to support environmental health research in which an unpredictable opportunity has arisen to collect human biosample or exposure data (e.g., following natural or made-made disasters, health care policy changes, etc). The three distinguishing features of an eligible study are: 1) the unforeseeable nature of the opportunity; 2) the clear scientific value and feasibility of the study; and 3) the need for rapid review and funding (substantially shorter than the typical NIH grant review/award cycle) in order for the scientific question to be approached and for the research design to be implemented.

*April 1, 2016*