

FAES/OARDC Research News

December 2015

Research News is a monthly electronic newsletter for faculty and other members of the FAES research community that summarizes upcoming funding opportunities, provides updates, FAES grant awards, and grant writing information.



Update

[NIH Announces Revised Grants Policy Statement & Application Guide](#)

Revised SF 424 application guides and supplemental instructions available for application due dates on and between Jan. 25, 2016 and May 24, 2016.

[Office of Sponsored Programs Guidance](#)

On occasion, a PI leaves the university, this may be due to transferring to a new institution, sabbatical, illness or other approved leave. In most cases it is necessary to obtain sponsor approval before making changes in the principal investigator status during any period of leave of more than three months.

[NSF issues is annual NSF Policy Guide Updates](#)

effective January 25, 2016. If you are preparing an NSF proposal this document provides in-depth guidance on all aspects of the application process and descriptions of the required sections.

Significant Changes to the NSF Policy Guide include:

When to Submit Proposals, has been updated to remove the ability to use other than 5 p.m. submitter's local time in solicitations. Failure to submit by 5 p.m. submitter's local time will result in the proposal not being accepted.

Collaborators & Other Affiliations Information, is a new single-copy document that requires each senior project personnel to provide information regarding collaborators and other affiliations. This information used to be provided as part of the Biographical Sketch. The new format no longer requires proposers to identify the total number of collaborators and other affiliations when providing this information.

Biographical Sketch(es), has been supplemented to inform proposers that they may use third-party solutions to develop their biographical sketch, however, the information they submit must be compliant with NSF proposal preparation requirements. In addition, it is no longer allowable for the biographical sketches of all senior personnel to be grouped together in a single PDF file. Biographical sketches must now be uploaded separately for each individual identified on the proposal as senior personnel.

Current and Pending Support, has been revised to reflect that all current project support should be listed in this section of the proposal, including internal funds allocated toward specific

projects. It is no longer allowable for the current and pending support of all senior personnel to be grouped together in a single PDF file. Current and pending support must now be uploaded separately for each individual identified on the proposal as senior personnel.

Dual Use Research of Concern (DURC), is an entirely new section and serves, in conjunction with coverage in the *Award & Administration Guide*, as NSF's implementation of the US Government Policy for Institutional Oversight of Life Sciences Dual Use Research of Concern.

[NSF Just-in-Time Budget Pilot](#)

In FY16, the DMS Infrastructure Program is participating in a pilot program that employs a streamlined initial budget process for proposals. The intent of this pilot is to allow NSF program staff and reviewers to focus on the science and to reduce the investigators' administrative workload by requiring only a basic justification of the resources necessary to complete the project. If a proposal is recommended for award, NSF staff will request full budgets and budget justifications and will proceed as normally with the recommendation process.

NIFA's Enhanced Reporting Tools are Available for Partners and the Public

NIFA's extensive data sets can provide information to help tell the story of what activities are funded by NIFA and the impact of that funding. Providing information in a useful, meaningful, and easy to understand way will facilitate that effort. The recent enhancements to the Data Gateway will greatly improve your ability to retrieve data on individual grants and capacity projects supported by NIFA. This new search ability makes the Data Gateway a breeze to use. The [Data Gateway](#), launched last spring, provides a portal to our data from 2002 to the present. A recent enhancement to the Congressional heat map allows Gateway users to see not only the total amount of funding by state, but also the grants that make up the total for 2011 and 2015.

[NIFA is pleased to introduce its 2014 Annual Report](#). The report highlights the progress made in meeting the goals of their [Strategic Plan](#), and moving closer to the vision of: "Catalyze transformative discoveries, education, and engagement to address agricultural challenges."

Faculty Achievements & Recent Awards

Sanja Ilic (Human Sciences), **Doug Doohan** (Horticulture and Crop Science), and **Jeff LeJeune** (Food Animal Health) received \$100,000 from the Ohio Department of Agriculture for *Implementing new on-farm produce safety education models*.

Jonathon D. Witter (ATI) received \$431,623 from the Ohio Department of Transportation for *Evaluating the particle size distribution of Ohio's stormwater runoff*.

Gary Gao (Extension, Piketon) received \$146,730 from the Ohio Department of Agriculture for *Container production and "chemigation" of berries for season extension and risk mitigation*.

V.M. Balasubramaniam (Food Science and Technology) received \$95,447 from Michigan State University for *High pressure processing of selected vegetable pickles*.

Sally Miller (Plant Pathology), **Gireesh Rajashekara** (Food Animal Health), and **David Francis** (Horticulture and Crop Science) received \$232,014 from University of Florida (NIFA) for *Limiting losses to bacterial spot through knowledge of global pathogen diversity, improved seed health, novel bactericides and tomato breeding*.

Brad Bergefurd (Extension, Piketon) received \$78,427 from the Ohio Department of Agriculture for *Development and delivery of resource-efficient, ecologically sustainable strawberry production and marketing systems for Ohio*.

Classes/Workshops

[Grant Management for Departmental Staff Series](#) scheduled for Jan and Feb 2016. Topics include: Purchasing on Sponsored Programs, People on Sponsored Programs, and Human Subjects and Grants, just to name a few. All offerings are located on the Columbus Campus. These sessions are conducted by the College of Arts & Sciences and College of Medicine, but all colleges are encouraged and welcome to attend.

Funding Opportunities

Federal Funding Opportunities

[Beginning Farmer and Rancher Development Program \(BFRDP\)](#) USDA-NIFA

Beginning farmer education for adult and young audiences in the United States can be generally traced back to the advent of the 1862 and the 1890 Morrill Land Grant Acts. But for the first time, the Food, Conservation, and Energy Act of 2008 (Pub .L. No. 110-234, Section 7410), appropriated \$75 million for FY 2009 to FY 2012 to develop and offer education, training, outreach and mentoring programs to enhance the sustainability of the next generation of farmers. The Agriculture Act of 2014 provided an additional \$20 million per year for 2014 through 2018. The reasons for the renewed interest in beginning farmer and rancher programs are: the rising average age of U.S. farmers, the 8% projected decrease in the number of farmers and ranchers between 2008 and 2018, and the growing recognition that new programs are needed to address the needs of the next generation of beginning farmers and ranchers. **DEADLINE: 01/21/16**

[Biotechnology Risk Assessment Research Grants Program \(BRAG\)](#) USDA-NIFA

The purpose of the BRAG program is to support the generation of new information that will assist Federal regulatory agencies in making science-based decisions about the effects of introducing into the environment genetically engineered organisms (GE), including plants, microorganisms (including fungi, bacteria, and viruses), arthropods, fish, birds, mammals and other animals excluding humans. Investigations of effects on both managed and natural environments are relevant. The BRAG program accomplishes its purpose by providing Federal regulatory agencies with scientific information relevant to regulatory issues. **DEADLINE: Letter of Intent – 02/12/16**

[Organic Agricultural Research and Extension Initiative \(OREI\)](#) USDA-NIFA

The OREI seeks to solve critical organic agriculture issues, priorities, or problems through the integration of research, education, and extension activities. The purpose of this program is to fund projects that will enhance the ability of producers and processors who have already adopted organic standards to grow and market high quality organic agricultural products. Priority concerns include biological, physical, and social sciences, including economics. The OREI is particularly interested in projects that emphasize research, education and outreach that assist farmers and ranchers with whole farm planning by delivering practical research-based information. Projects should

plan to deliver applied production information to producers. Fieldwork must be done on certified organic land or on land in transition to organic certification, as appropriate to project goals and objectives. **DEADLINE: 03/10/16**

[Plant Feedstock Genomics for Bioenergy: A Joint Research Funding Opportunity Announcement USDA, DOE](#)

The U.S. Department of Energy's Office of Science, Office of Biological and Environmental Research (OBER), and the U.S. Department of Agriculture (USDA), National Institute of Food and Agriculture (NIFA), hereby announce their interest in receiving applications for genomics-based research that will lead to the improved use of biomass and plant feedstocks for the production of fuels such as ethanol or renewable chemical feedstocks. Applications are sought for research on candidate bioenergy plants with improved resistance/tolerance to disease and disease complexes. Research to overcome these biological barriers to the low-cost, high-quality, scalable and sustainable production of bioenergy feedstocks using the tools of genetics and genomics are encouraged. You are also encouraged to submit letters of intent, pre-applications, and applications well before the deadline. **Required pre-application Dec. 22**; Due Feb. 2.

[EPA - Support for Water Quality Framework Training Workshop, Nonpoint Source Agriculture Training and Technical Assistance, and Hypoxia and Agricultural Nutrient Outreach and Technical Assistance Request for Proposals.](#)

The U.S. Environmental Protection Agency (EPA) is soliciting proposals from eligible applicants to provide support for training and technical assistance activities to build the capacity of state and tribal officials and nongovernmental stakeholders in the Clean Water Act (CWA) Sections 303(d), 305(b), TMDL Programs, the Nonpoint Source (CWA Section 319) Program, and Gulf of Mexico Hypoxia related activities. **DEADLINE: 12/14/15**

[Minor Crop Pest Management Program Interregional Research Project #4 \(IR-4\)](#)

The purpose of the IR-4 program is to enable the crop protection industry to provide safe, effective, and economical crop protection products for growers and consumers of minor/specialty crops. The crop protection industry cannot justify the costs associated with the research and development, registration, production, and marketing of crop protection products for minor/specialty crops due to the smaller market base and limited sales potential. The IR-4 program provides the assistance needed to ensure that new and more effective crop protection products are developed and made available to minor/specialty crop producers. These efforts require effective collaborations among federal agencies, the crop protection industry, and land-grant colleges and universities. **DEADLINE: 2/18/16**

[Division of Integrative Organismal Systems \(IOS\) – NSF](#)

Proposals focused on plant-microbial symbioses of all types formerly accepted for review in the Symbiosis, Defense, and Self-recognition Program in the Physiological and Structural Systems Cluster of IOS under the IOS Core Programs Solicitation will no longer be accepted into the Core track of this solicitation. This important area of research will still be supported by IOS however. Proposals on plant-microbial symbioses will now be accepted for review in a *new* program supported and managed by NSF IOS and the USDA National Institute of Food and Agriculture (NIFA). Information about the new joint solicitation in plant-microbial symbioses and interactions will be forthcoming in late 2015. Projects focused on development of functional genomic tools, approaches and infrastructure that are intended to enable genome manipulation of plant-microbial symbioses may be submitted to the EDGE track of this solicitation. **DEADLINE: 01/15/16**

[Division of Environmental Biology \(core programs\) \(DEB\) - NSF](#)

The Division of Environmental Biology (DEB) supports fundamental research on populations, species, communities, and ecosystems. Scientific emphases range across many evolutionary and ecological patterns and processes at all spatial and temporal scales. Areas of research include biodiversity, phylogenetic systematics, molecular evolution, life history evolution, natural selection, ecology, biogeography, ecosystem structure, function and services, conservation biology, global change, and biogeochemical cycles. Research on organismal origins, functions, relationships, interactions, and evolutionary history may incorporate field, laboratory, or collection-based approaches; observational or manipulative experiments; synthesis activities; as well as theoretical approaches involving analytical, statistical, or computational modeling. **Preliminary due January 25**; full due August 2.

[Partnerships for International Research & Education \(PIRE\) – NSF](#)

Partnerships for International Research and Education (PIRE) is an NSF-wide program that supports international activities across all NSF supported disciplines. The primary goal of PIRE is to support high quality projects in which advances in research and education could not occur without international collaboration. PIRE seeks to catalyze a higher level of international engagement in the U.S. science and engineering community. International partnerships are essential to addressing critical science and engineering problems. In the global context, U.S. researchers and educators must be able to operate effectively in teams with partners from different nations and cultural backgrounds. PIRE promotes excellence in science and engineering through international collaboration and facilitates development of a diverse, globally-engaged, U.S. science and engineering workforce. **OSU Limited Submission Opportunity DEADLINE: 04/04/16**

[Faculty Early Career Development Program \(CAREER\) -- NSF](#)

The Faculty Early Career Development (CAREER) Program is a Foundation-wide activity that offers the National Science Foundation's most prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations. Such activities should build a firm foundation for a lifetime of leadership in integrating education and research. NSF encourages submission of CAREER proposals

from junior faculty members at all CAREER-eligible organizations and especially encourages women, members of underrepresented minority groups, and persons with disabilities to apply. **DEADLINE: 7/20/16**

Partnerships for Enhanced Engagement in Research (PEER) is a competitive grants program administered by the National Academy of Sciences. PEER invites scientists in developing countries, partnered with US-supported collaborators, to apply for funds to support research and capacity-building activities on topics with strong potential development impacts. NASA, NIH, NOAA, NSF, USDA Agricultural Research Service, USDA Forest Service, USDA National Institute of Food and Agriculture, USGS, and the Smithsonian Institution have entered into an agreement with USAID and are participating in the PEER program. This 2016 funding cycle PEER proposal submission has two phases: (1) A brief pre-proposal is required for all applicants. The deadline for submission of pre-proposals is **01/15/16**

EJ Collaborative Problem-Solving Cooperative Agreements Program

The Environmental Justice Collaborative Problem-Solving (CPS) Cooperative Agreement Program provides funding for eligible applicants for projects that address local environmental and public health issues within an affected community. The CPS Program is designed to help communities understand and address exposure to multiple environmental harms and risks. **DEADLINE: 02/02/16**

DE-FOA-0001437 Environmental System Science Department of Energy - Office of Science

The Office of Biological and Environmental Research (BER) of the Office of Science (SC), U.S. Department of Energy (DOE) hereby announces its interest in receiving applications for research in Environmental Systems Science (ESS), including Terrestrial Ecosystem Science (TES) and Subsurface Biogeochemical Research (SBR). The mission of the Climate and Environmental Sciences Division (CESD) within BER is to advance a robust predictive understanding of Earth's climate and environmental systems and to inform the development of sustainable solutions to the Nation's energy and environmental challenges. The goal of the Environmental System Science (ESS) activity in the Office of Biological and Environmental Research (BER) is to advance a robust predictive understanding of terrestrial environments, extending from bedrock to the top of the vegetated canopy and from molecular to global scales in support of DOE's energy and environmental missions. Using an iterative approach to model-driven experimentation and observation, interdisciplinary teams of scientists work to unravel the coupled physical, chemical and biological processes that control the structure and functioning of terrestrial ecosystems across vast spatial and temporal scales. State-of-science understanding is captured in conceptual theories and models which can be translated into a hierarchy of computational components and used to predict the system response to perturbations caused, for example, by changes in climate, land use/cover or contaminant loading. **DEADLINE: 01/22/16**

State Funding Opportunities

I-Corps@Ohio

I-Corps@Ohio is a statewide program developed to assist faculty, staff and students from Ohio universities, colleges and community colleges in validating the market potential of technologies and launching start-up companies. I-Corps@Ohio is modeled after the National Science Foundation's (NSF) successful I-Corps (Innovation Corps) program, which has been proven to increase innovation, entrepreneurship, and industry collaboration. The I-Corps@Ohio program incorporates lean launch, customer discovery and business model innovation methodologies to assess technologies and enhance the business acumen and networks of research faculty and students across the state. Letter of Intent **DEADLINE: 02/07/16**

Multi-State Rural Development Research or Extension Projects - North Central Region - FY 15/16

The North Central Regional Center for Rural Development (NCRCRD) at Michigan State University announces a competition for seed grants aimed at enhancing the ability of Land Grant institutions to positively influence the quality of life in rural areas of the twelve-state North Central region of the United States. Priority areas for the Center's work include:

- Innovation diffusion for rural development
- Sustainable communities
- Leadership development
- Entrepreneurial communities

The North Central Regional Center for Rural Development is hosting a small grant information conference call on January 12, 2016 at 1:00 p.m. EASTERN. The session is designed to assist people interested in applying for our small grants (proposals due Feb. 2, 2016). The conference call will cover basic requirements to apply for a grant, how to find examples of past grants, common mistakes in applications, how the proposals are reviewed, and the timeline. To sign up and receive the call in information email soliz@msu.edu. **DEADLINE: 02/02/16**

OSU Internal Funding Opportunities

SEEDS [The SEEDS Graduate Competition](#) proposals are due on Wednesday, **February 3, 2016** at 5:00pm. View this short video explaining eligibility requirements and submission guidelines. <https://mediasite.osu.edu/Mediasite/Play/73c2b72132cc4794ba3ace44a451f1dc1d> (OSU sign in required and must cut and paste web address into browser.)

[The SEEDS Undergraduate Competition](#) proposals are due **January 13, 2016** at 5:00 p.m.

[The Public Health Preparedness in Infectious Disease \(PHPID\) Program and the Infectious Disease Discovery Theme announce the launch of their joint Transdisciplinary Team Grant](#) program. The overall goal of this grant program is to support faculty and staff in strengthening transdisciplinary research networks across the university so that they can become more competitive in addressing complex research challenges in infectious disease, ultimately enabling the development of a more robust extramural grant portfolio for infectious disease research at Ohio State. For more information, contact Kat Marriott marriott.20@osu.edu. **DEADLINE: 03/15/16**

[OSU Office of University Outreach and Engagement, Connect and Collaborate Grants Program](#)

The **Connect and Collaborate Grants Program** provides more than \$675,000 in multiple and diverse funding opportunities for students, faculty and staff to catalyze engaged, collaborative teaching and research with the goal of enhanced impact. The grants leverage teams and partnerships addressing challenges or opportunities related to the Discovery Themes areas of Energy and Environment, Food Production and Security, Health and Wellness and/or Humanities and the Arts. **DEADLINE: 02/02/16**

[Ohio State University Center in Regulatory Tobacco Science \(OSU-CERTS\)](#)

OSU-CERTS seeks to expand the scope of research being conducted by CERTS through our annual competitive pilot grant program. This program will support exploration of new ideas, pursue novel research, and provide funding for time-sensitive research related to emerging tobacco-related products and issues in the field of tobacco research. Pilot Grant **letters of Intent are due December 18, 2015**, by 5 pm. While full applications will be reviewed through the OSU Comprehensive Cancer Center Intramural Research Program, there are no requirements for OSU-CERTS pilot project applicants to be an OSU Comprehensive Cancer Center member or a Pelotonia rider.

Foundation Funding Opportunities

[Children's Hunger Alliance \(CHA\)](#) is seeking the services of a consultant or consulting firm to conduct a comprehensive, statewide needs assessment including all 88 counties for the purpose of expanding its child nutrition program services, particularly its sponsorship of Child and Adult Care Food Program (CACFP) services, and expanding access of the National School Breakfast Program and summer meal service. **DEADLINE: 01/04/16**

[Organic Farming Research Foundation \(OFRF\)](#)

The Organic Farming Research Foundation (OFRF) grants program is currently accepting research proposals from applicants residing in Canada, Mexico and the United States. In particular, OFRF encourages farmers, ranchers, graduate students, early career researchers, veterans, and Extension personnel to consider applying. OFRF recently completed a National Survey of Organic Farmers, receiving feedback from more than 1,000 farmers across the U.S. The results, which identify the issues most critical to the success of organic farmers, provide a roadmap for future research. Priorities for this year's research include projects related to soil health, with emphasis on water management (e.g., soil health for drought and flood conditions); creating new organic farmers and ranchers and transition of producers to organic systems including education and training; livestock production, especially breeding for organic systems, diseases and pasture management; and small grain production, especially related to creating a diverse rotational system. **DEADLINE: 02/08/16**

[2016 Gulf Research Program Early-Career Research Fellowships and Science Policy Fellowships](#). These fellowships offer early-career researchers and professionals in the social and behavioral sciences, health and medicine, engineering, earth and life sciences, and relevant interdisciplinary fields a unique opportunity to focus on leadership development while conducting research or work that is relevant to the [mission and goals of the Gulf Research Program](#). The Early-Career Research Fellowships recognize professionals at the critical pre-tenure phase of their careers for exceptional leadership, past performance, and potential for future contributions to improving oil system safety, human health and wellbeing, or the environment in the Gulf region. These two-year fellowships are awarded to tenure-track faculty (or equivalent) at colleges, universities, and research institutions.

To learn more about these fellowships or to apply, please [visit the Gulf Research Program's website](#). Applications for both fellowships are due on **February 17, 2016** at 11:59pm ET.



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