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.

July 2017

NIFA Center for International Programs Newsletter
NIFA’s Center for International Programs works with NIFA’s four institutes to develop global engagement opportunities in NIFA programs to advance U.S. food and agriculture. The newly created Grant Opportunities for Global Engagement webpage provides a comprehensive list of Request for Applications (RFAs) and their associated international offerings in a simple format for potential applicants to peruse. These opportunities can help increase the global competitiveness of U.S. university faculty and students, and U.S. agricultural producers; leverage international resources through scientific collaborations; and promote U.S. leadership in global food and agricultural systems.

The OSU Human Subjects Research Newsletter Summer 2017 issue is now available. Learn about research policies, regulatory updates and research tips.

Check out our newly updated website
grants.cfaes.ohio-state.edu/
We have reorganized the structure of the website in hopes that it is now easier to navigate and find what you are searching for. Feel free to send any comments to Kayla Arnold at arnold.1065@osu.edu.

New Tutorials on Preparing and Submitting Your NIH Grant Application
New to the NIH grant process? Ever wish someone would explain and walk you through applying for NIH grants step by step? If so, we hope our newest resource will be the next best thing to joining you for an in-person lesson. More

Read Tips to Writing Grants 101 from Grants.gov: Grant Writing Basics: 3 Tips to Avoid Last Minute Problems.

The USDA-NIFA implementation of the Research Terms and Conditions has been posted to the NSF RTC website. The USDA/NIFA Implementation is effective June 30, 2017. As part of this implementation, revised RTC Appendices A (Prior Approval Matrix), B (Subaward Requirements), and USDA/NIFA Agency Specific Requirements have posted to the website. The next implementation date for the Research Terms and Conditions is currently scheduled for October 2017.

Need assistance with travel fees?
The OARDC Director’s office offers grants to aid faculty with international travel, conference support and fees associated with being an invited lecturer. Faculty Development Grants are available to full-time tenure-track faculty, research scientists and non-tenured research faculty with OARDC appointments. Faculty without OARDC appointments, visiting faculty on sabbatical, visiting faculty on one-year appointments, post-doctoral research associates, graduate students and undergraduate students are not eligible for these awards. For more information, go to the website.

The Association of American Universities (AAU), which Ohio State is a member, created an infographic displaying federal funding awarded to AAU members in 2015 (shown on the next page). They state that $22.6 billion, or 60% of the total amount of federally funded research dollars are given to AAU member universities to perform research.

Contact us for proposal development services or with any comments or questions. To submit news items or request certain topic areas, email FAES Grant Support at gdsu@osu.edu
FEDERALLY-FUNDED RESEARCH AS IN 2015*

<table>
<thead>
<tr>
<th>Department of Agriculture</th>
<th>Department of Defense</th>
<th>Department of Energy</th>
<th>Department of Health and Human Services (including NIH)</th>
<th>National Aeronautics and Space Administration</th>
<th>National Science Foundation</th>
<th>Other Federal Departments and Agencies</th>
<th>Total Federal R&amp;D at AAU universities</th>
</tr>
</thead>
<tbody>
<tr>
<td>$25B</td>
<td>$20B</td>
<td>$15B</td>
<td>$10B</td>
<td>$5B</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

56% of all National Academy Members

- 3,574 Members of the National Academies at AAU universities

68% of all Elected American Academy Fellows

- 3,407 Elected American Academy Fellows affiliated with AAU universities

SCHOLARLY OUTPUT

- 16.8 Million Citations (2011-2015)*

- 1.5 Million Publications (2011-2015)*

- 55,224 Books**

*% of total amount awarded to AAU universities / total dollar amount received by AAU universities

*Thomson-Reuters InCites  **2015 Academic Analytics

Association of American Universities  Inquiry  Innovation  Impact  1200 New York Ave, Washington, DC  aau.edu
Funding Opportunities

**USDA NIFA Funding**

*Biomass Research and Development Initiative* (BRDI) supports the development of sustainable biofuels and biobased products, helping to create jobs, new market opportunities, and rural prosperity by diversifying the nation's energy choices. Projects may focus on feedstock development, biofuels and biobased products development, and biofuels development analysis. The application process will include two phases: a concept paper phase and a full application phase.

**Deadline: July 7, 2017**

**Higher Education Multicultural Scholars Program (MSP)**

The purpose of this competitive undergraduate scholarship grant program is to increase the multicultural diversity of the food and agricultural scientific and professional workforce, and advance the educational achievement of all Americans by providing competitive grants to colleges and universities.

**Deadline: July 21, 2017**

---

**Internal Funding**

**SEEDS: The OARDC Research Enhancement Competitive Grants Program**

CFAES researchers are invited to participate in the SEEDS program, an internal competition for funding. Since the program was established in 1996, SEEDS has been addressing the challenges and opportunities of Ohio’s agbioscience industry. By fostering high-quality research among scientists, SEEDS enables these scientists to collect the preliminary data needed to give them a competitive edge in national programs and provides them with leverage to attract industry support. [View the RFP](#)

**Deadline: October 11, 2017**

**Center for Applied Plant Sciences (CAPS) Seed Grant Program**

We are pleased to announce that the 2017-2018 OSU Center for Applied Plant Sciences (CAPS) Seed Grant Program Request for Applications is now available. The CAPS mission is to build synergy that illuminates basic biological concepts and ultimately translate these into applications that offer practical solutions to important problems. CAPS provides affiliated members with support and tools for novel discoveries, commercialization and, ultimately, economic development opportunities. CAPS fosters this work by building collaborative teams, attracting world-class faculty, and actively developing partnerships with industry and government.

**Deadline: Letter of Intent - July 17, 2017.**

---

**Other Funding Opportunities**

**Investigators in the Pathogenesis of Infectious Disease**

The Investigators in the Pathogenesis of Infectious Disease (PATH) award provides $500,000 over five years to support accomplished investigators at the assistant professor level to study pathogenesis, with a focus on the interplay between human and microbial biology, shedding light on how human and microbial systems are affected by their encounters.

**Deadline: Pre-proposals - July 14, 2017**

**Final - November 15, 2017**

**Defense Multidisciplinary University Research Initiative (MURI) Grants**

The MURI program supports basic research in science and engineering at U.S. institutions of higher education that is of potential interest to the Department of Defense (DoD). The program focuses on multidisciplinary research efforts where more than one traditional discipline interact to provide rapid advances in scientific areas of interest to DoD. Typical annual funding per grant is in the $1.25 to $1.5 million range.

**Deadline: White Papers - July 17, 2017**

**Proposals - November 1, 2017**

**Ohio Sea Grant Requests Pre-Proposals for Harmful Algal Bloom Research Initiative (HABRI) Projects**

Ohio Sea Grant is requesting pre-proposals for one- to two-year research projects from Ohio colleges and universities as part of the Ohio Department of Higher Education's Harmful Algal Bloom Research Initiative.

**Pre-proposals Deadline: Thursday, July 27, 2017.**
Recent Awards

Federal, State and Local Funding

- Ajay Shay, Harold Keener, Scott Shearer, FABE; Teddy Ezeji, Animal Sciences; $482,448, National Institute of Food & Agriculture, Improving biofuels production: A novel whole-plant corn based feedstock supply system.
- Anastasia Vlasova and Linda Saif, FAHPR; $73,158 National Pork Board, Comparative pathogenesis of different porcine rotavirus C (RVC) genotypes and correlation between maternal immune status and RVC diarrhea prevalence in suckling piglets.
- Enrico Bonello and Jason Slot, Plant Pathology; $100,000, A next-generation-sequencing approach to finding the causal agent of beech leaf disease, a lethal disease of American beech, Fagus Americana, National Institute of Food & Agriculture.
- Peter Piermarini, Entomology; $448,128, Development of small molecule mosquitoicides for controlling the primary vector of Zika virus, National Institute of Allergy & Infectious Diseases.
- Kichoon Lee, Animal Sciences; $484,000, Positive regulation of muscle growth by an alternative splicing isoform of avian myostatin gene, National Institute of Food & Agriculture.
- Francis Fluharty, Monique Pairs-Garcia, Animal Science; Jeff McCutcheon, OSUE; $296,614, Using anthelmintic feed ingredients and novel management to diminish impacts of internal parasites on sheep production in the Midwest U.S.

For more funding resources, see [http://go.osu.edu/funding](http://go.osu.edu/funding).

Upcoming Events

Amendments and Buck-IRB
Tuesday, July 18, 2017
8:00 - 9:00am
Room 620, Prior Hall
The Office of Responsible Research Practices and Center for Clinical and Translational Science are offering an advanced workshop on amendments to approved human subjects research and the Buck-IRB system. The session will describe the amendment process, review relevant HRPP policies and regulations, provide guidance and tips on amendment submission via Buck-IRB and explain how to expedite the amendment screening and review processes. While the session will be tailored to medical researchers, anyone preparing IRB submissions is welcome. Registration is requested: [http://go.osu.edu/BuckIRBWorkshop](http://go.osu.edu/BuckIRBWorkshop)

Faculty Research Mentoring Workshop
Monday, August 7
Tuesday, August 8
2:00 - 4:30pm
Room 260, Prior Hall
Are you a faculty mentor or would you like to be one? Attend this workshop. A case-based approach will be used to explore topics such as establishing expectations, communications, assessing understanding, addressing diversity and fostering independence. Presented by Ohio State's Center for Clinical and Translational Science. Participants must attend both days. Contact Stuart Hobbs for more information. Register through BuckeyeLearn.