Information for New Researchers

Congratulations on your appointment within the College of Food, Agricultural and Environmental Sciences! CFAES is a large, diverse land-grant college comprised of two campuses (Columbus and Wooster), outlying research stations, and Ohio State University Extension.

CFAES research is often complex and interdisciplinary. Our researchers often collaborate with governmental organizations, industry partners and other colleges and universities to advance modern knowledge. We strive to develop new technologies; ensure human, animal, and environmental health; and prepare future leaders and scientists. We Sustain Life.

Getting Started

- Confirm Principal Investigator (PI) status (PI Portal)
- Complete CITI Responsible Conduct of Research and additional training as needed
- Complete Conflict of Interest Disclosure (COI)
- Complete Institutional Data Policy Training (BuckeyeLearn)
- Familiarize yourself with OSU research policies at orc.osu.edu/resources
- Learn about BuckeyeBox (box.osu.edu)
- Check out the current issue of Research News, the CFAES research newsletter
- Review resources and upcoming events on the GDSU website
- Consider submitting an application to the SEEDS program
- Contact GDSU to discuss proposal development

One College
Teaching | Research | Outreach

The Grant Development Support Unit (GDSU) is a free service provided to all CFAES employees. The staff offers guidance to researchers in planning and conceptualizing externally funded research projects, finding funding opportunities, and submitting well-crafted and competitive applications. The GDSU has been successful in obtaining more than $101 million in new funding since its inception in 2010.

Important Websites

- Buck-IRB (IRB)
- Cayuse424 (Grant submission)
- ePA-005 (pre-approval application)
- E-Protocol (IACUC)
- eCOI
- PI Portal (Access to financial information)
- E-Activity (proposal award and expenditures)

CFAES provides research and related educational programs to clientele on a nondiscriminatory basis. For more information, visit cfaesdiversity.osu.edu. For an accessible format of this publication, visit cfaes.osu.edu/accessibility.
## CONTACTS, 2019-2020

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**RESEARCH INTEGRITY**

Responsible Conduct of Research (RCR) is just one of the ways that the College of Food, Agricultural and Environmental Sciences demonstrates its commitment to excellence in research. Training in RCR promotes public trust, research integrity, and the preparation of future researchers. RCR covers a variety of topics including conflicts of interest, animal welfare, human subject protection, data acquisition & management, mentoring & collaboration, responsible authorship and publication, peer review, research misconduct and the scientist as a responsible member of society.

The Office of Research (OR) requires that all eligible personnel (faculty, staff, and students) complete the Responsible Conduct of Research (RCR) online course through the CITI website. If you are listed on an IACUC or IRB protocol, you will be required to complete this RCR training in addition to the appropriate CITI module.

Detailed instructions on how to login to the CITI website can be found here. If you have questions, please contact the Office of Research at RCRInfo@osu.edu.

The mission of the **Office of Research Compliance** (ORC) is to support and promote ethical research practices at The Ohio State University. ORC serves the OSU research community by coordinating institution-wide research compliance policy and procedure development, and by partnering with researchers, so that the University is compliant with federal, state, and local laws and regulations as well as University policies.

The **Office of Responsible Research Practices** assists faculty, staff and students in maintaining high research standards by providing education on OSU and federal research policies, assisting with research submissions and aiding OSU review boards in keeping consistent processes.

**Animal Care and Use** — The Institutional Animal Care and Use Committee (IACUC) reviews and oversees the responsible use of animals in university research and instructional activities.

[orrrp.osu.edu/iacuc](orrrp.osu.edu/iacuc)

**Biosafety** — The Institutional Biosafety Committee (IBC) reviews and oversees research involving biohazards and recombinant or synthetic nucleic acid molecules.

[orrrp.osu.edu/ibc](orrrp.osu.edu/ibc)

**Human Subjects** — The Institutional Review Boards (IRB) review and oversee research involving human subjects.

[orrrp.osu.edu/irb](orrrp.osu.edu/irb)

**CONFLICT OF INTEREST**

The Ohio State University requires certain faculty, staff members, and students to complete an annual financial disclosure to comply with federal conflict of interest (COI) regulations, accreditation requirements, and OSU faculty and staff COI policies.

A conflict of interest exists if financial interests or other opportunities for tangible personal benefit may exert a substantial and improper influence on an employee’s professional judgment in exercising any university duty or responsibility including designing, conducting, or reporting research. A conflict of interest is not an accusation and does not imply that an employee’s judgment has been compromised; this process encourages transparency.
RESEARCH RESOURCES

GRANT DEVELOPMENT SUPPORT UNIT
The Grant Development Support Unit (GDSU) aids CFAES employees with grant proposal development and submission. Services are free of charge and are on a first-come first-served basis. We serve as the first point of contact for research questions and also arrange the GDSU Seminar Series, a monthly series of educational sessions on research topics.
grants.cfaes.ohio-state.edu

OFFICE OF SPONSORED PROGRAMS
The Office of Sponsored Programs partners with faculty and staff to provide the highest quality research administration at all stages of sponsored projects, by promoting electronic research administration, responsible stewardship of funds, and sound management practices.
osp.osu.edu

OFFICE OF POSTDOCTORAL AFFAIRS
The Office of Postdoctoral Affairs works to implement programs and events to enrich the postdoctoral experience at the university. The office prepares postdocs for successful research careers in academia, industry, government and other employment sectors.
u.osu.edu/osupac

INDUSTRY LIAISON OFFICE
The vision and mission of the Industry Liaison Office (ILO) is to cultivate and foster mutually beneficial relationships with partner organizations worldwide by aligning their aspirations and needs with OSU students, research, innovations, and assets.
ilo.osu.edu

TECHNOLOGY COMMERCIALIZATION OFFICE
The Technology Commercialization Office (TCO) assists faculty, post-doctoral, and student researchers turn their ideas, inventions, and technologies into business opportunities and products that make an impact in the local and global marketplace.
ceo.osu.edu

OFFICE OF ADVANCEMENT
CFAES is committed to improving our world through research and education. The Office of Advancement manages fundraising and donations to the college that make our research possible. The college also offers scholarships to help fund CFAES students.
advancement.osu.edu

RESEARCH COMMONS
If you need assistance with writing, creating data management plans, or finding funding opportunities, try the Research Commons on the Columbus campus. Their staff offer consultations, workshops, and many trainings on various research-related topics throughout the year.
library.osu.edu/researchcommons

DC DAYS
The CFAES Research Office and the GDSU arrange an annual trip to Washington, D.C. to provide emerging CFAES researchers the opportunity to visit federal funding agencies. This experience allows attendees to visit with federal agency program officers, determine whether the researcher's basic concept is a good fit for the goals and objectives of the sponsor's program, seek advice concerning project design and appropriate funding track, and be more competitive in the peer review process. Approximately 8-10 Assistant Professors are chosen through a competitive application process. In order to apply, you must be an active grant seeker and have an OARDC or CFAES appointment. Priority will be given to non-tenured assistant professors.
go.osu.edu/DCDays
**GRAND CHALLENGES**

CFAES has identified four Grand Challenges as priority areas to focus and leverage the College's resources. By nature, these challenges are complex and interdisciplinary, requiring many minds and innovative ideas to discover solutions.

- **ONE HEALTH**
  - Protect and secure human, environmental, and animal health

- **RURAL—URBAN INTERFACE**
  - Increase trust and communication between consumers and agriculture

- **FOOD SECURITY, PRODUCTION, AND ENVIRONMENTAL SUSTAINABILITY**
  - Preserve the environment and water quality, and cultivate food production and security

- **PREPARING FUTURE SCIENTISTS AND LEADERS**
  - Prepare the future workforce for critical jobs in the agricultural sector

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**BENEFICIAL REUSE OF RESIDUALS AND RECLAIMED WATER**

*Nick Basta, School of Environment and Natural Resources*

Biosolids – organic matter recycled from waste – are commonly applied to soils as a fertilizer treatment, simultaneously improving soils and recycling waste products. However, some residual products such as arsenic and lead can be damaging to humans, plants, or animals who ingest them. Researchers explored the potential for waste by-products to be safely used in urban areas. Lead contaminated soils amended with six types of phosphate, such as bone meal, showed mixed results on their ability to reduce soil lead bioaccessibility (the proportion of a substance that can be absorbed). However, combined with an increase in soil pH, bioavailability of lead decreased by 5-26%. Developing management recommendations for contaminated urban soils is necessary to inform best practices of using urban soils for food production and recreation. In addition, the results of this research will provide information for continuing risk assessment to develop regulations at the state level for land-based recycling of residuals and reclaimed water.

**MAXIMIZING THE GAINS OF OLD AND NEW ENERGY DEVELOPMENT FOR AMERICA'S RURAL COMMUNITIES**

*Mark Partridge, Agricultural, Environmental and Developmental Economics*

Rural communities in Ohio have been affected by shale energy development and are particularly vulnerable to long-term economic fluctuations experienced by natural resource dependent economies. CFAES researchers used survey data from over 1,500 manufacturers, in addition to other public and private data sources, to empirically examine social and economic changes due to shale energy development. Researchers worked with OSU Extension to create fact sheets, policy briefs, presentations, and other materials in order to educate stakeholders about the impacts of energy development in their communities. To date, over 125 folders have been distributed. As a result of this research, a technical report was published summarizing the economic impacts of the current oil and gas boom on 25 counties in eastern Ohio, which can be used to inform likely industries of future growth. Using this information and ongoing collaboration, communities can update their planning strategies, promoting long-term sustainability and economic diversity.
The GDSU has been successful in obtaining more than $101 million in new extramural funding since its inception in 2010.
FINDING FUNDING

GRANT DEVELOPMENT SUPPORT UNIT
One of the services that the GDSU offers is assistance finding funding. If you have an idea for a project, but are unsure of a possible funding source, or if you don't know where to start, contact us and we can assist you. There are also resources available on our website. grants.cfaes.ohio-state.edu/funding

SPIN FUNDING DATABASE
The SPIN database is available to all Ohio State faculty, staff and students. It allows you to create an account where you can save searchers for future reference. There are over 40,000 funding opportunities listed in the database and you can create customized searches and save them for later. See go.osu.edu/funding for step-by-step instructions.

INTERNAL FUNDING
There are various internal funding opportunities at Ohio State. Many of the multidisciplinary centers offer funding, such as the Center for Applied Plant Sciences (CAPS). CFAES also offers the SEEDS program, which you can read more about online at grants.cfaes.ohio-state.edu/seeds. You can find a listing of some of the centers on the Office of Research website: research.osu.edu/about/centers-and-institutes/

FEDERAL FUNDING
Grants.gov has educational resources and allows you to search through grants from 26 different federal agencies, such as the United States Department of Agriculture-National Institute of Food and Agriculture (USDA-NIFA), National Institutes of Health (NIH), and the National Science Foundation (NSF).

STATE OF OHIO FUNDING
The State of Ohio offers many opportunities and resources for funding. Their website lists current RFP's administered by the Ohio Department of Education.
ohiohighered.org/grants

LIMITED SUBMISSION OPPORTUNITIES
A limited submission opportunity is one where the sponsor restricts the number of proposals that an institution can submit. The Office of Research keeps a database of Limited Submission Opportunities and internally coordinates the application process to ensure that only the allowable number of proposals are submitted on behalf of the university.