



# Research News

August, 2021

## Funding Opportunities

As funding opportunities are announced we will compile a full list of opportunities on our website. The web page will be updated periodically as new opportunities are discovered.

### Cliff Bar Family Foundation Small Grants Program

Through the program, the foundation will award general support grants as well as funding for specific projects in the three focus areas: strengthen our food system, enhance equitable community health outcomes, and safeguard our environment and natural resources.

**Deadline: October 1, 2021**

### Water Innovation, Science, & Engagement to Advance Reuse

EPA is seeking applications proposing to accelerate water innovation, information availability, and engagement to advance clean and safe water reuse goals, promote better understanding of the Nation’s water and wastewater treatment and infrastructure, and enhance the availability and efficient use of water resources through water reuse.

**Deadline: September 29, 2021**

[View All Funding Opportunities](#)



Ana Trabanino Pino, ENT

## Inside the Issue

- Increasing the number of major grants and awards within OSU and CFAES
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- Carnegie Classification: R1, R2, Are What? What do these distinctions mean?

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# Increasing the number of major grants and awards

*Gary Pierzynski, Associate Dean for Research & Graduate Education*

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Earlier this year I wrote about the goal of increasing the number of major grants and center awards (\$10 M+) received by OSU and CFAES. This message provides a brief progress update and a look forward. Two programs promoting faculty development for making us more competitive for major awards have been created, the **GRO Academy** from the Office of Research and the Strategic Alignment for Research Success (STARS) program from CFAES. The GRO Academy has trained the first cohort and CFAES had one participant. The **STARS Program** is recruiting the first cohort now. Both programs facilitate the building of a track record of accomplishments and awards, management skills, and leadership skills for faculty that are essential for competing for major awards.

Along the way CFAES has directly submitted or been a part of some major grant/center proposals including two for the USDA Sustainable Agriculture Systems program, one NSF Engineering Research Center proposal, and one NRCS Regional Conservation Partnership Program project. This week we learned that OSU has been awarded two NSF Artificial Intelligence Institutes, of which one, the **Intelligent Cyberinfrastructure with Computational Learning in the Environment (ICICLE)** has CFAES participants. We have one more major proposal to FFAR under development. In all cases, major teams of faculty and staff were needed to prepare the submissions and my thanks to all who contributed. We have learned a great deal this past year regarding what it takes to get this work done and will continue to collaborate with faculty, administration, and staff to make the processes more efficient. We have strong support from President Kristina Johnson and OSU institutional support is improving at a steady pace.

[View STARS Program](#)



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## Spotlight

### National Science Foundation Biennial Report on Diversity in Science and Engineering

The newly released report found that women earned half of all bachelor’s degrees in science in 2018. The share and number of science degrees awarded to minorities increased over the past decade.

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### Tips for Writing Large-Scale, Cross-Disciplinary Proposals

Scientists discuss the team characteristics and proposal writing process likely to lead to success. Involving new and novice team members, and encouraging questioning are among the suggestions.

[Learn More](#)

### Scientists Recognize the Value of Research Administration

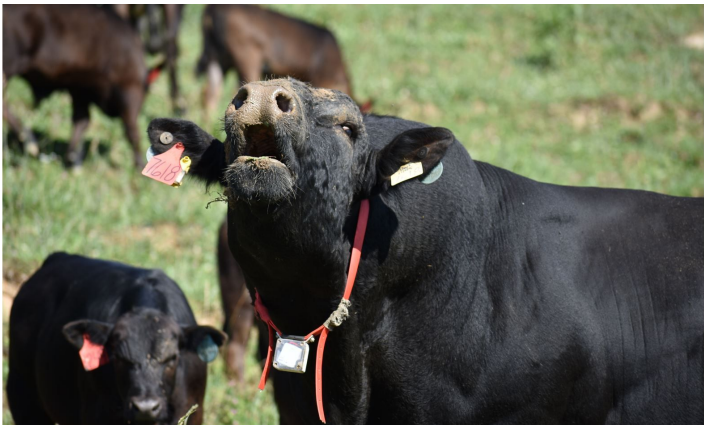
Helping with grant applications, ensuring compliance, & working with funders is part of the job. It is a profession in its own right, attracting people from diverse backgrounds with soft skills like conflict resolution & multitasking.

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# New & Newsworthy



## Animal Sciences Bullish about on-Animal Sensors Project with Australia’s CQUniversity

One of several aspects of a Memorandum of Understanding (MOU) recently signed with CFAES and Central Queensland University (CQU) is research utilizing GPS and accelerometer technology to monitor the health and performance of beef bulls a project funded through the American Association of Bovine Practitioners Foundation.

Bulls are critically important to the American and Australian beef industry. In the US, more than 90% of operations use exclusively natural service breeding. In these systems, a very important aspect is that bulls must breed with cows of the entire herd in a timely manner because that will determine the efficiency of production and economic viability of the farm. To ensure bulls are effective with breeding, a breeding soundness exam (BSE) is performed to ensure their reproductive, sensory, and locomotion systems are functional. While important, the BSE only provides a “snapshot” of the health of a bull. What happens if an issue develops during the breeding season and bulls cannot perform? In extensive managed cattle, producers may never become aware of the bull problem, resulting in fewer calves and less profit for the beef enterprise.

“Beef producers simply don’t have the time to get around and check on all of their animals and pastures every day, reported Dr. Mark Trotter of CQU when he was a Fulbright Fellow at CFAES’ Department of Animal Sciences. To solve this constraint, on-animal sensing methods are being developed. These creates new opportunities to improve current management strategies in beef cattle. Unlike traditional methods of observation, on-animal sensors (OAS) can monitor behavior around the clock and are sensitive enough to detect minute changes that people do not notice. For cattle managed on extensive pastures, the herd may not be in sight for extended periods, so OASs allow for new behavioral observations.

Caleb Rykaczewski joined this project as an OSU undergraduate student, before centering his MS in Animal Sciences on OAS. He is being directed by Dr. Alvaro Garcia-Guerra, Assistant Professor of Cattle Reproduction and Production Systems Management.

[Read More](#)

## NAS Prize Open for Nominations

The 2021 National Academy of Sciences Prize in Food & Agriculture Sciences is now open for nominations. Established in 2017 by FFAR and the Bill & Melinda Gates Foundation, the NAS Prize recognizes US mid-career scientists for their extraordinary contributions to food & agriculture research.

[Learn More](#)



## Organic Farming Research Foundation (OFRF)

OFRF recently announced their 2021 on-farm research grant application. The focus of the grant cycle is climate mitigation and resilience, and early career and BIPOC applicants will be prioritized in the review process. Applications are due August 20 and you can find more information about priorities, the Request for Letter of Intent and the application on our site.

[Visit Website](#)

## NIH Advice on Submitting Policy Questions

The agency’s grant policy inbox has been filled with questions that are better directed to university sponsored programs offices, contacts named in the funding opportunity or grants management contacts at the awarding center. It has issued guidance on where to direct a variety of questions.

[Read More](#)

## Carnegie Classification: R1, R2, Are What?

Have you ever heard that you work for an R1 institution? And did you then wonder why another institution was referred to as an R2? Or maybe the same situation but reversed? What do these distinctions mean? You may have had an intuitive sense that the tiers are somewhat related to the size of institutions and their level of research activity. If so, you are correct! But who categorizes institutions among the various tiers? Under what criteria? And how many tiers are there?

[Read More](#)

## Discovery, Learning and Impact

Twelve cross-disciplinary projects have been awarded funding in the second round of Ohio State’s Seed Fund for Racial Justice. The grants will seed innovative research approaches and creative ideas that contribute to the elimination of racism and address its underlying causes and consequences. Each project will be undertaken in collaboration with community partners. Congratulations to Zoë Plakias, Melvin Pascall, Pamela Thomas, Chieri Kubota, and Timothy McDermott on receiving funding for their projects.

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## A message from Peter Mohler, OSU Interim Vice President for Research

The Ohio State University is a national leader in research and creative expression. Thus, it is critical that our infrastructure aligns with the exceptional work being performed in laboratories, offices, and studios across our university.

Earlier this year, the university implemented Workday to update outdated human resources and finance technologies. As with any major enterprise-wide system implementation, this has required a significant adjustment to our normal business and laboratory processes. Since implementation of Workday, we have identified both anticipated and unanticipated issues that are impacting our efficiency and productivity across the research and creative expression enterprise. Given that we are over six months since go-live, I am writing to inform you of our plan to implement an aggressive effort to address concerns and develop sustainable solutions. This memo outlines our process moving forward.

First, the Office of Research convened the Workday for Research Task Force last week comprised of leadership and subject matter experts from the Office of Research, Office of the CIO, Human Resources, Compliance, Business and Finance and Workday.

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# Recent Awards

- Theresa Ferrari, Extension, \$45,600:** Ohio National Guard OMK Outreach support services 2021, Ohio National Guard
- Heldman, Dennis, FST, \$109,450:** Sustainability of the frozen mango supply chain, National Mango Board
- Miller, Sally, PP, Steve Culman, SENR, Brad Bergefurd, Extension, \$324,937:** Enhancing regional adoption of anaerobic soil disinfestation for soilborne disease management in high tunnel vegetable production systems, National Institute of Food and Agriculture
- Sullivan, Mazeika, SENR, \$221,463:** Restoration and monitoring of wetland fishes in the Ashtabula River basin Ohio, OH Environ Protection Agency

## Research Development and Grant Writing News

We invite you to access the current issue of Research Development and Grant Writing News. The Office of Knowledge Enterprise | Research Development Office provides access to this subscription-based newsletter for the entire campus community.

- Because a Management Plan Is Not Required Does Not Mean It Is Not Necessary
- Strategies for Proposal Resubmissions
- Understanding Plagiarism & Other Research Misconduct to Avoid in the Research Narrative
- How to Go From Research Ideas to Research Dollars: Ten Key Steps to Getting Your Ideas Funded

[Read Now](#)

## CFAES STARS Leadership Development Program

The CFAES STARS Program (Strategic Alignment for Research Success) is a new initiative to identify and develop the next generation of research leaders among early and mid-career tenure track faculty within our college. The goal of the STARS Program is to propel you, our emerging research leaders, to take your research programs to a higher and more collaborative level in your pursuit of major extramural funding.

[Learn More](#)

# Events & Opportunities

Anytime LinkedIn	Anytime OLAW.NIH.GOV	Aug 26 10:00-1:00 PM
<div>LinkedIn Professional Development</div> <div>Staff can apply to access a free LinkedIn Learning License, provided by HR &amp; the USAC</div> <div>Apply</div>	<div>IACUC Responsibilities Regarding Service Animals</div> <div>Hear discussion on laws/regulations relevant to providing access to research facilities for service animals</div> <div>View</div>	<div>Strategic Planning for Space Microbial Communities Research</div> <div>Develop a strategy and framework at the intersection of space and microbial community research</div> <div>Register</div>