



Research, Innovation & Impact

University of Missouri

June 2023

Look for the next newsletter issue in early August. We hope you have a great summer.



Two MU researchers win NSF CAREER awards

Their research projects focus on improving elementary math learning and creating better conductive polymers.



Extending Mizzou brain power

Mizzou researchers generate innovations that are further developed in commercial settings for the benefit of society. See who had patents, commercial agreements, startup companies and first product sales in 2022.



Expanding undergraduate research

The first round of \$5,000 MizzouForward Undergraduate Research Training Grants will sponsor student investigations in STEM and NSF Graduate Research Fellowship Program fields. Meet the students and their mentors.



Seed grants nurture faculty initiatives

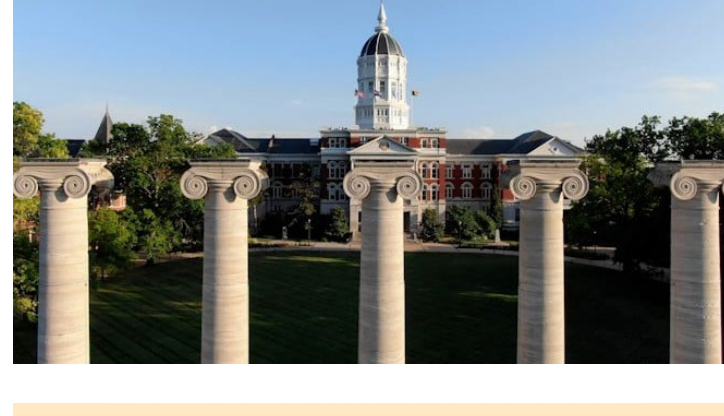
During the 2022-23 academic year, MU awarded 46 Research Council grants, investing in projects leading to pilot data, book contracts, juried performances, published articles and more. See awardees and their projects.



Marking Thomas Phillips' legacy

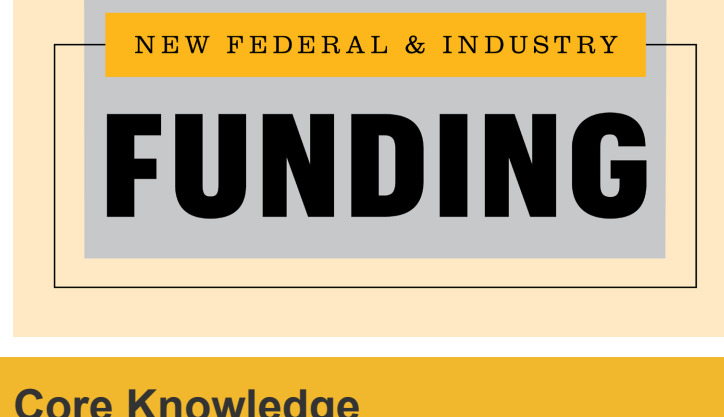
A Bond Life Sciences Center room was named in honor of Thomas Phillips, retired Curators' Distinguished Teaching Professor in biological sciences, for 37 years of stellar teaching, research and service.

Division Resources



Apply for NSF, NIH supplements

Both federal agencies offer a variety of supplemental funds that can be added to existing grants.



View new research awards

Researchers spend much time and effort securing funds from external sponsors. See federal grants (any amount) and industry awards (\$50,000+) that MU received in April. You'll need to login with your MU credentials to access the list.

Core Knowledge



Building blocks of health research

The Molecular Interactions Core helps researchers understand how proteins and ligands interact, which has important implications for drug development.

Event Preview



NextGen Discovery Series

Join NextGen for "The Current State of Missouri's Overdose Crisis and Recent Mitigation Strategies" with Associate Professor Rachel Winograd, **noon June 5**. Watch live at the NextGen building (lunch provided for the first 40 attendees) or virtually. ([Register](#))

Professional Development

From Mizzou:

- "Applying for National Science Foundation (NSF) Supplements: Research Experiences for Undergraduates (REU), Research Experiences for Teachers (RET) and Other Programs," **noon Aug. 25** (virtual) – Learn about NSF supplements, different ways to apply for them and the support available to help you create a successful request. ([Register](#))
- "Principal Investigator Leadership Program," **3 to 4:30 p.m. Oct. 5, 12, 19, 26** (virtual) – Four-session program will teach PIs best practices and how to avoid common pitfalls in project management, meeting grant deliverables and team effectiveness. ([Register](#))

External opportunities:

- Join NSF's Directorate for Biological Sciences at **1 p.m. Central Time June 7** for a virtual office hour about more powerful broader impacts plans. MU Associate Vice Chancellor Susan Renoe, executive director of the NSF-funded Center for Advancing Research Impact in Society, will offer tips and helpful resources. ([Register](#))
- Planet @ Taylor Geospatial Institute Symposium and Workshop, **8 a.m. to 4 p.m. Aug. 25**, Saint Louis University – This event will include featured speakers, networking and workshops; for researchers and students interested in using [Planet's](#) tools and satellite imagery. ([See more details and register.](#))

Important Dates

Deadlines

Institutional Biosafety Committee (IBC)

June 20: Submit research protocols for July 20 meeting.

Institutional Review Board (IRB)

June 25: [Submit](#) human subject research applications, amendments and annual updates for July 12 full board review.

Limited Submissions Funding

Aug. 1: Letter of intent due for [NSF BioFoundries to Enable Access to Infrastructure and Resources](#) for Advancing Modern Biology and Biotechnology ([Email SPDS for assistance.](#))

Aug. 7: [NSF Partnerships for Innovation](#)

Research Council Grants

Aug. 21: Applications due by 5 p.m. Questions? [Email Internal Funding staff.](#)

Events

Extra Credit film series

June 5, 6 p.m., Ragtag Cinema – Watch "Mamma Mia" and enjoy a panel discussion with MU researchers. Watch the next film in the series, "Crouching Tiger, Hidden Dragon," at **6 p.m. July 10**.

HRPP/IRB Research Compliance Seminar

June 12, 2 p.m. – "IRB Application Overview: A Focus on Sections and Subforms" ([Request Zoom link.](#))

Saturday Morning Science

June 17, 10 a.m., Ragtag Cinema – John Wigger, professor of history, will present "The Invention of Flight: How America Learned to Fly." No science background required; all ages welcome.

Things to Know

Around campus

- Elizabeth King, associate professor of biological sciences, [received a \\$1.9 million NIH grant](#) to create a "toolbox" for understanding complex genetic traits.
- The Molecular Imaging and Theranostics Center showcased lifesaving radiopharmaceutical research and future plans at a recent [open house and symposium](#).
- A new study from Luke Capizzo, assistant professor of journalism, and his team [found that community activism](#) uses many of the same strategic communication tools as public relations.
- Tyler Myroniuk, assistant professor of public health, and his team [found similar COVID-19 mortality rates](#) between Canadian providences and American states before vaccines were available.
- Guoliang Huang, the Huber and Helen Croft Chair in Engineering, [designed a prototype](#) of a small, lightweight active "metamaterial" that can control the direction and intensity of energy waves.
- [More research news](#)

Accolades

- MU's [news release](#) about teacher stress and job satisfaction from a study conducted by Keith Herman, Curators' Distinguished Professor in educational, school and counseling psychology, and his team appeared in more than 130 media stories, including [MSN](#) and [Education Week](#). To share your research with the public, [contact the News Bureau](#).
- Two Research, Innovation & Impact (RII) employees won [Outstanding Staff Awards](#): Ryan Fessler, human resources partner, and Roberta Settergren, senior program/project support coordinator. Congratulations also to the division's 16 staff award nominees and those with [milestone anniversaries](#).
- Samantha Peters, proposal illustrator and graphic designer on the Strategic Proposal Development Service (SPDS) team, received the [Brand Wagon award](#) for exemplary use of logo, fonts, colors and other elements of Mizzou's visual identity.
- RII professionals in SPDS and Research Analytics [shared their expertise](#) at the National Organization of Research Development Professionals conference in Virginia.
- The College of Veterinary Medicine [honored students and postdocs](#) for their outstanding poster and oral presentations at its annual Research Day.
- [More accolades](#)

Division of Research, Innovation & Impact
310 Jesse Hall, Columbia, MO 65211
573-882-9500

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