



A Tennessee Flagship Carnegie R1 Research Institution

RESEARCH + INNOVATION

NEWSLETTER



UofM Faculty Keep Growing Research Awards

The University receives \$101 million in research awards for FY 2024, expanding its reach and impact.

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\$9.2M Navy Contract to Design Drone Facility

Withstanding severe weather is goal of research into capabilities of unmanned vehicles.

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New Resources for Urban Flood Resilience

A better understanding of hydrologic science becomes crucial for the future resilience of our cities.

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Civil Engineer Researcher Leads Transit System Study

Part of initiative that will inject nearly \$3 million into seven R & D projects across the state.

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Enhancing Public Health Systems & Workforce

Meeting evolving needs of Shelby County residents to improve public health locally and regionally.

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Truck Movements and Performance Measures

Transportation statistics on the performance and impacts on the national transportation system.

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Micro X-Ray Fluorescence Spectrometer

Understanding how chemical elements cycle through plants, soil, rock, sediment, aquifers and more.

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Leading Innovator Will Chair Civil Engineering

Renowned academic garnering \$19M+ in federal, state and industry funding will lead department.

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Preventing Infection-related Lameness in Sows

The Jennings Lab works to promote healing and reduce infections in pig production.

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UofM Finalist for 2024 APLU Awards

APLU names six universities as finalists for its 12th annual IEP Awards, to be announced in Nov.

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DOE, NIH and NSF Funding Opportunities

Recently published federal agencies' funding opportunities outlining upcoming grants.

[See Full List](#)



Calendar of Events: September 2024

Research Development, Research Enterprises, UMRF Research Park and FedEx Institute of Technology.

[See Full List](#)

Research Awards August 2024

Dr. Linda Jarmulowicz awarded \$1.3M from U.S. Department of Education.

Dr. Susan Neely-Barnes awarded \$529,999 from the Health Resources and Services Administration.

Dr. Qianyi Cheng awarded \$327,397 from the National Institutes of Health.

Dr. Thomas Goebel awarded \$299,809 from the National Science Foundation.

Dr. Hongmei Zhang awarded \$201,912 from the National Institutes of Health.

Dr. James Murphy awarded \$200,319 from the National Institutes of Health.

Dr. Nicholas Simon awarded \$173,417 from the National Institutes of Health.

Dr. Gregory Washington awarded \$121,004 by the Substance Abuse & Mental Health Services Administration.

Dr. Richard Bloomer awarded \$102,000 from U.S. Department of Health and Human Services.

Dr. Amy Curry awarded \$100,039 from the National Institutes of Health.

Dr. Sabya Mishra awarded \$75,000 from the National Science Foundation.

Dr. Shahram Pezeshk awarded \$71,577 from the U.S. Geological Survey.

Dr. Chris Cramer awarded \$68,027 from the US Geological Survey.

Dr. Mark Gillenson awarded \$61,250 from the Department of Homeland Security.

Dr. Elena Delavega awarded \$60,655 from the Church Health Center of Memphis.

Dr. Brian Waldron awarded \$52,346 from the City of Germantown.

Dr. Jessica Amber Jennings awarded \$50,000 from the National Science Foundation.

Dr. Thomas Goebel awarded \$50,000 from the National Science Foundation.

Dr. Stephanie Ivey awarded \$41,000 from the Women's Foundation for a Greater and \$26,134 from the National Academy of Sciences.

Dr. Vipin Agarwal awarded \$35,140 from the National Institutes of Health.

Dr. Sandra Nichols awarded \$35,000 from the University of Tennessee Health Science Center.

Dr. Lindsey Feldman awarded \$29,835 from Innovate Memphis.

Dr. Shawn Brown awarded \$26,043 from the Mississippi Soybean Promotion Board.

Dr. Wei Lyu awarded \$25,032 from the Iowa Department of Health and Human Services.

Dr. Meredith Ray awarded \$12,092 from the National Institutes of Health.

Dr. Kristoffer Berlin awarded \$12,000 from the National Institutes of Health.

Dr. Gary Stinchcomb awarded \$10,500 from the National Science Foundation.

Dr. Laura Casey awarded \$4,050 from the Substance Abuse & Mental Health Services Administration.

Dr. Joel Bumgardner awarded \$3,796 from the Hera Health Solutions Inc.

** Data reported the 18th of each month. Awards finalized after the 18th will be reported the following month.*

[Full project and award details available here.](#)

Upcoming Events & Announcements



Image: MEGAN BETHEA

901 AI Meetup

"AI, Google, and Buyers: What You Need to Know and Do to Succeed"

AI is revolutionizing how customers buy and businesses market. But most businesses are unaware of the impact and unprepared with how to respond. We'll discuss why search engine traffic will decrease and how you can counteract the changes by using AI to create better marketing content.

Speaker: Steve Phipps, Founder/President of Wayfind Marketing

Tuesday, Sept. 17 | 4 PM (CST)

FedEx Institute of Technology | Fishbowl (Room 203/205)

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**FedEx Institute of Technology
Welcomes
C.M. Khoong, CEO of NUS-ISS
National University of Singapore**

Digitalization is undergoing significant shifts across five key dimensions: moving toward sustainable value, humanizing digital experiences, focusing on lives over tasks, compressing processes in space and time and leveraging earning multipliers. Khoong will speak upon the implications for higher education institutions as they adapt to stay relevant in the evolving industry landscape.

Join us as we welcome Khoong as part of our Distinguished Guest Speaker series.

Talk: The Big Industry Shifts in Digitalization to 2030

**Thursday, Sept. 12 | 3 PM
FedEx Institute of Technology | MPT 103**

[REGISTER](#)



TTAC: Meet the Team Webinar

SEPT. 19 | 2-3 PM

The UofM Office of Technology Transfer
Hosting
Tennessee Technology Advancement Consortium
Meet the Team Webinar

The Office of Technology Transfer (OTT) invites you to the Tennessee Technology Advancement Consortium (TTAC): Meet the Team virtual webinar to find out how we can support accelerating your technology or innovation.

This hour-long session is designed for researchers, academics, industry professionals, and representatives from academic institutions to learn more about TTAC and explore potential collaboration opportunities.

Ask our team anything from partnership possibilities to how we can support accelerating your technology or innovation.

Thursday, Sept. 19 | 2-3 PM
FedEx Institute of Technology | Fishbowl (203/205)

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NEXT GENERATION SUPPLY CHAIN

INNOVATION SHOWCASE



Next Generation Supply Chain Innovation Showcase

The University of Memphis' Division of Research & Innovation is excited to announce the UofM Next Generation Supply Chain Innovation Showcase. Join us for an engaging event that will highlight the groundbreaking projects being developed by the awardees of the Next Generation Supply Chain Technologies and Innovation Challenge.

Friday, Sept. 27 | 3-4:30 PM

FedEx Institute of Technology | Fishbowl (203/205)

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Communities of Research Scholars Call for Proposals

The University of Memphis' Division of Research & Innovation is pleased to announce the 2024-25 Communities of Research Scholars (CoRS) Program call for proposals.

Established in the fall of 2018, CoRS was created to cultivate interdisciplinary discourse and nurture the growth of collaborative research across the UofM. Each community is comprised of faculty representing multiple disciplines, academic units, perspectives and research approaches with a shared interest in exploring a common research theme/topic.

The 2024-25 CoRS will continue to cultivate interdisciplinary discourse and nurture research growth. Divisional staff will also help successful faculty identify opportunities for external support for their work. Successful applications will include:

- An interdisciplinary team of faculty
- A short budget narrative
- A thematic area of inquiry that your group would like to explore
- Potential external funding opportunities if any to your knowledge

Previously funded CoRS, as well as new applicants, are eligible.

Funding Description:

The program will fund awards at \$2,500 (for first-time awardees) and \$5,000 (for second-time awardees). Groups applying for a second award should present evidence of having applied for external funding as the result of the initial CoRS funding. Projects should be completed by August 31, 2025.

Proposal Content:

- Title Page
 - Project Name
 - Name of convener (lead PI) and research team members (including titles and clearly defined roles and responsibilities)

- Project Description

CoRS Networking & Team Building:

Join us Thursday, Sept. 19, from 2-4 p.m. at the FedEx Institute of Technology Lobby and Methodist Presentation Theatre (103) to bring together prior funded CoRS teams and prospective members to network, share ideas and form teams for this year's cohort. For prospective or returning CoRS members who cannot attend the CoRS Networking & Team Building Event, there will be a CoRS Lunch on Wednesday, Sept. 18, from 11 a.m.-12:30 p.m., where prior CoRS awardees will serve on a panel to share their experiences in the program.

Reporting Requirements:

Winning projects will be required to submit mid-implementation and final reports. The mid-implementation report should reflect budget updates or anything programmatic the timeline and milestones in the initial proposal. The final report should summarize the entire project and discuss potential submission of applications for external funding.

Deadline for Submission: Friday, Oct. 18.

All applications must be submitted through the [InfoReady platform](#).

For questions about the submission process, email researchdev@memphis.edu.

INFOREADY



NSF's START Supplement: New Funding for Skills Training at 2-Year Colleges

The National Science Foundation (NSF) has issued a Dear Colleague Letter for a New Supplemental Funding Opportunity for Skills Training in Advanced Research & Technology (START) that invites supplemental funding requests from two-year institutions of higher education (IHEs) funded under the Advanced Technological Education

(ATE), the Industry-University Cooperative Research Centers (IUCRC), and the Engineering Research Centers Programs (ERC).

The expected goals of this research experience for students, faculty and student/faculty teams from 2-year IHEs are:

- To increase their knowledge, skills and abilities through engagement in cutting-edge use-inspired research projects of industrial and societal importance.
- To pursue new activities aimed at acquiring further professional development experiences that will enhance their preparation for multiple career pathways.
- To foster deep and broad preparation of participants in emerging technical areas, experience working in collaborative teams with diverse individuals, skills, and knowledge in areas including but not limited to safety, ethics, communication, innovation and entrepreneurship.
- To provide opportunities to work in collaborative teams and with diverse individuals, where 2-year IHE participants work collaboratively with 4-year IHE participants.
- To provide advanced research and technology skills to individuals especially from underrepresented groups, persons from groups underrepresented in STEM and those from geographically underrepresented areas in STEM.

To learn more about this opportunity and how to prepare and submit a supplemental funding request, reference the [NSF Dear Colleague Letter](#).

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