



A Tennessee Flagship Carnegie R1 Research Institution

RESEARCH + INNOVATION

NEWSLETTER



UofM Opens Center for Electrified and Automated Trucking

The Industry-University cooperative research center is the first on the university campus.

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National Committees Select UofM's Dr. Janey Camp for Appointments

Gains national recognition with key appointments and is recognized for research contributions and expertise.

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Software Infrastructure for Next-Generation Quantum Chemistry

Creating tools to simplify software development and facilitate the next generation of methods in the field.

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Modifying Fluorinated Aromatics with a Chromium Catalyst

Developing a new, efficient method to incorporate fluoroarene molecules into other organic compounds.

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Streamlining Galaxy Simulation Processes

Advancing galaxy formation research: a new toolkit for reliable simulation conditions is underway.

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Empowering Recovery Through Certification

Expanding and improving access to quality peer-based recovery behavioral health services.

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UofM's BRAIN Center Program Extended

Le Bonheur Children's Hospital extends Hurt2Healing Partnership through January 2026.

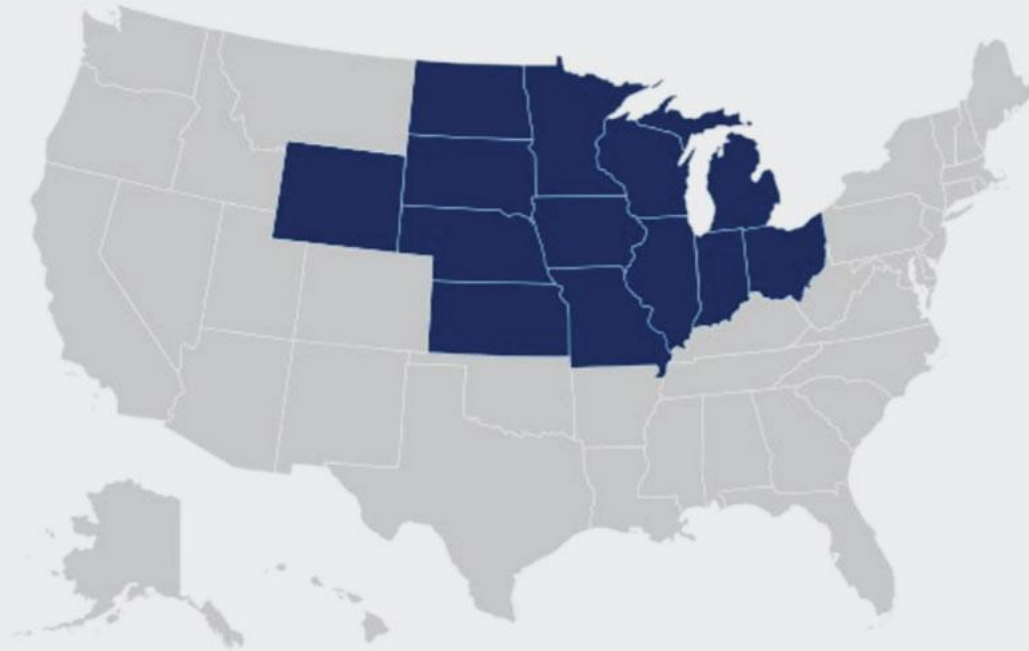
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Increasing Quality of Investigative Reporting

Press Forward grant boosts quality, coverage and fills news gaps for underserved Memphis communities.

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[ISA-MW Quincy Wright Distinguished Scholar Awarded to Leah Windsor](#)

Windsor is recognized for her contributions to International Studies, ISA service and research on academic inequalities.

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Pfund awarded the 2024 ICRG Scientific Achievement Award

With this award, Psychology professor, Dr. Rory Pfund, receives highest honor within the gambling research community.

[Read Full Story](#)



NIH and NSF Funding Opportunities

Learn more about recent federal agencies' funding opportunities outlining upcoming grants.

[See Full List](#)



Calendar of Events: November 2024

Learn more about research, UMRF Research Park and FedEx Institute of Technology events.

[See Full List](#)

Research Awards October 2024

Dr. Eddie Jacobs awarded \$8,294,867 from the Office of Naval Research.

Dr. Rouzbeh Nazari awarded \$963,237 from the U.S. Department of Agriculture.

Dr. Daniel Foti awarded \$400,000 from Office of Naval Research.

Dr. Chrisann Schiro-Geist awarded \$349,978 from U.S. Department of Education.

Dr. Olayinka Mohorn-Mintah awarded \$252,486 from the National Science Foundation.

Dr. Fanta Gutema awarded \$234,512 from Reckitt Global Hygiene Institute.

Dr. John Sabatini awarded \$216,422 from U.S. Department of Education.

Dr. Alfred Hall awarded \$201,897 from National Science Foundation.

Dr. Vasile Rus awarded \$199,372 from U.S. Department of Defense.

Dr. Bernie Daigle awarded \$191,551 from the U.S. Department of Defense.

Dr. Subhash Jha awarded \$191,163 from National Highway Traffic Safety Administration.

Dr. Sabyasachee Mishra awarded \$175,242 from National Highway Traffic Safety Administration.

Dr. Hai Trieu awarded \$80,000 from Launch Tennessee.

Dr. Mohammadreza Davoodi awarded \$76,819 from National Science Foundation.

Dr. Wesley James awarded \$70,288 from Urban Institute.

Dr. M. David Rudd awarded \$58,716 from the U.S. Department of Defense.

Dr. James Adelman awarded \$53,000 from National Science Foundation.

Dr. Robin Lennon-Dearing awarded \$48,058 from Gilead Foundation.

Dr. James McCutcheon awarded \$38,747 from U.S. Department of Justice.

Dr. Janey Camp awarded \$36,171 from National Science Foundation.

Dr. Carolyn Kaldon awarded \$34,587 from the National Institutes of Health.

Dr. James Adelman awarded \$24,993 from National Institutes of Health.

Dr. Joseph Hafer awarded \$17,440 from the Kentucky Division of Protection and Permanency.

Dr. Kan Yang awarded \$14,506 from National Science Foundation.

Dr. Maxime Paquette awarded \$11,689 from The Scholl's Wellness Company.

Dr. Emerson Bowers awarded \$1,949 from The American Ornithological Society.

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

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

Upcoming Events & Announcements



FedEx Institute of Technology Distinguished Guest Speaker

Dr. Mangilal Agarwal
Professor, Biomedical Engineering and Informatics
Indiana University

Canines can detect a wide-range of medical conditions by smelling volatile organic compounds. Agarwal's lab aims to identify the specific chemicals that dogs detect and, in parallel, develop hand-held sensing systems that can achieve the same high sensitivity and specificity.

Speaker: Dr. Mangilal Agarwal, Biomedical Engineering and Informatics

Title: From Biomarker Discovery to Sensor Development for Noninvasive Health Monitoring and Other Applications.

Monday, Nov. 4 | 3 PM (CST)

FedEx Institute of Technology | Methodist Presentation Theatre (103)

[REGISTER](#)

HACK MEMPHIS

FALL 2024 CITY HACKATHON



Hack Memphis

Fall 2024 City Hackathon

Do you have ideas for improving the city? Is there a particular issue you'd like to learn about or solve? Join us at the City Hackathon at the University of Memphis [FedEx Institute of Technology](#), as 100 volunteers with technical and creative skills team up over 36 hours to develop and present innovative solutions to three civic challenges for the City of Memphis: 1) reducing blight in neighborhoods, 2) improving transportation for job access and 3) using new AI and Smart City technology.

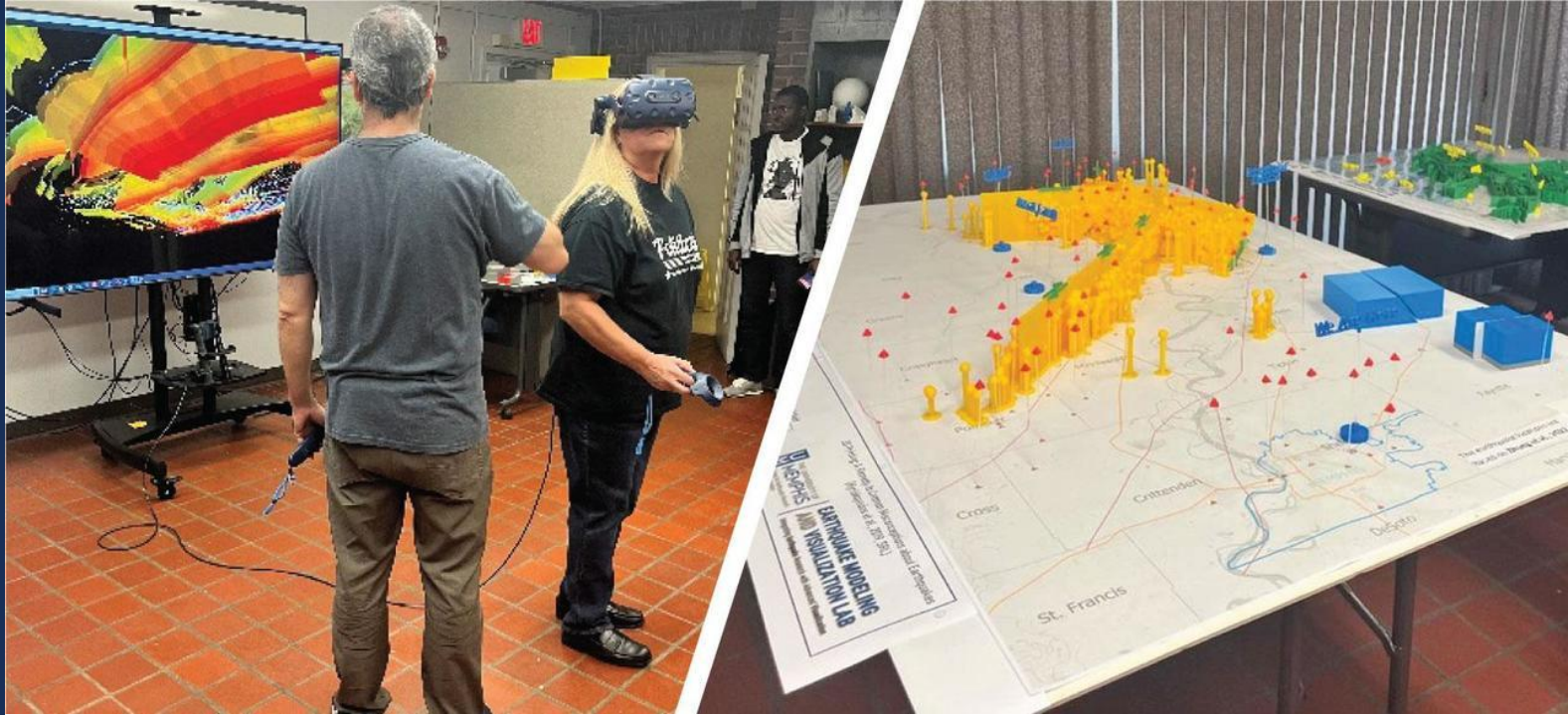
Details:

- Opening remarks with City of Memphis Mayor Paul Young
- Skill Building Workshops
- Capstone Presentations & Awards
- Networking & Collaboration with Top Memphis Talent

Pricing: Participants will be asked to pay a \$10 registration fee. However, participants will get their \$10 back in cash when they check into the event on Nov. 15. This is to ensure an accurate headcount for food and supplies. We will provide meals, workshops, space for teams to work and social activities throughout the weekend for free.

Nov. 15-17 | 6-10 PM & 8:30 AM-5 PM (CST)
FedEx Institute of Technology | The Zone, Lobby, Fishbowl, Room 225

REGISTER



CERI Earthquake Modeling and Visualization Lab Open House

The Division of Research & Innovation has started hosting a series of open houses for the labs and facilities across the UofM, and the CERI Earthquake Modeling and Visualization Lab kicked off the series with an open house on Oct. 22.

The CERI Earthquake Modeling and Visualization Lab studies earthquake rupture dynamics and, in general, the physical mechanisms behind earthquake-related processes by combining advanced numerical methods with High-Performance Computing. The lab's activities include a visualization component, which aims to facilitate the transfer of scientific knowledge to society and encourage interactions with the public (non-experts).

Participants of the open house were shown the 3D-models of the New Madrid and San Andreas fault lines, and was able to experience the models through a Virtual Reality (VR) experience. You can learn more about the lab [here](#), or contact Dr. Christodoulos Kyriakopoulos (christos.k@memphis.edu) for more information.

The Division of Research & Innovation hosted another lab open house on Nov. 1, with the Customer NeuroInsights Research Lab (C-NRL) in the Fogelman College of Business and Economics, and future open houses can be found on our [calendar](#). If you have a lab or facility on campus and would like to host an open house, contact us at researchdev@memphis.edu.

SCHEDULE UPCOMING OPEN HOUSE



NSF GRFP Cohort

The NSF Graduate Research Fellowship Program (GRFP) offers prestigious fellowships to early-career graduate students pursuing research-based master's or doctoral degrees in STEM or STEM education fields. Fellows receive three years of financial support (stipend and tuition) over five years. The program aims to recognize and support promising scientists and engineers while fostering diversity in STEM.

The Division of Research & Innovation held the 2024 NSF GRFP cohort over the past several months and worked with six graduate students to create and submit their proposals to the program.

Concurrently, Drs. Emily Puckett, Jim Adelman and Cassandra Nuñez hosted a Biology GRFP Bootcamp. The GRFP Bootcamp is an eight-week intensive writing program that ends with the submission of the student's GRFP application to NSF. The three faculty members discuss the structure and discipline specific content expected within the personal and research statements with eligible students. Through weekly meetings they brainstorm through both the intellectual merit and broader impacts aspects of the NSF proposal.

We would like to congratulate the previous and current awardees of the NSF GRFP resulting from the efforts of the Biology GRFP Bootcamp: Isis Davis (2022), Serena Blais and Julia Weil (2023) and Bloo Mitchell (2024).

The Division of Research & Innovation plans to continue the GRFP cohort yearly, and the next cycle should begin in August/September 2025. If you are interested in NSF GRFP or any other student funding opportunities, please contact researchdev@memphis.edu. If you would like to learn more about the Biology GRFP Bootcamp, please contact Dr. Emily Puckett at emily.puckett@memphis.edu.



UofM Faculty Expert List

Topics Across Various Subjects, Areas and Fields

Calling all University Partners:

As UofM marketing finalizes the new look of our UofM Newsroom, they are creating a **University Faculty Expert** list to connect faculty members with the media on news and trending topics across various subjects, areas and fields.

Please share this survey with faculty who would be interested in engaging with media requests and are open to discussing their research and insights. The ultimate goal is to create a centralized list across the University and begin to proactively pitch our experts.

Thank you for your assistance with this project.

[UofM FACULTY EXPERT LIST SURVEY](#)

An abstract graphic featuring a grid of binary code (0s and 1s) in various colors (blue, green, yellow, red) on the right side. On the left side, there are three horizontal lines of binary code, each with a corresponding colored line (blue, pink, yellow) that curves and spreads out towards the right, creating a sense of motion and data flow.

Tech Training

"Introduction to Large Language Models Workshop"

Generative Artificial Intelligence (Gen-AI) and particularly large language models (LLMs) have taken the world by storm. Gen-AI's potential across many domains seems to be transformative and its true potential in various domains is yet to be fully understood, explored and realized.

The Introduction to Large Language Models (LLMs) workshop is a two-day intensive LLM training program designed to provide attendees with a solid introduction to LLMs concepts and hands-on training on using LLMs through prompting and other strategies.

Details:

Two-day Workshop for Professionals (light breakfast, coffee and lunch will be offered)

Pricing: \$1,600

Nov. 21-22 | 8:30 AM-5 PM (CST)
FedEx Institute of Technology | Room 225

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