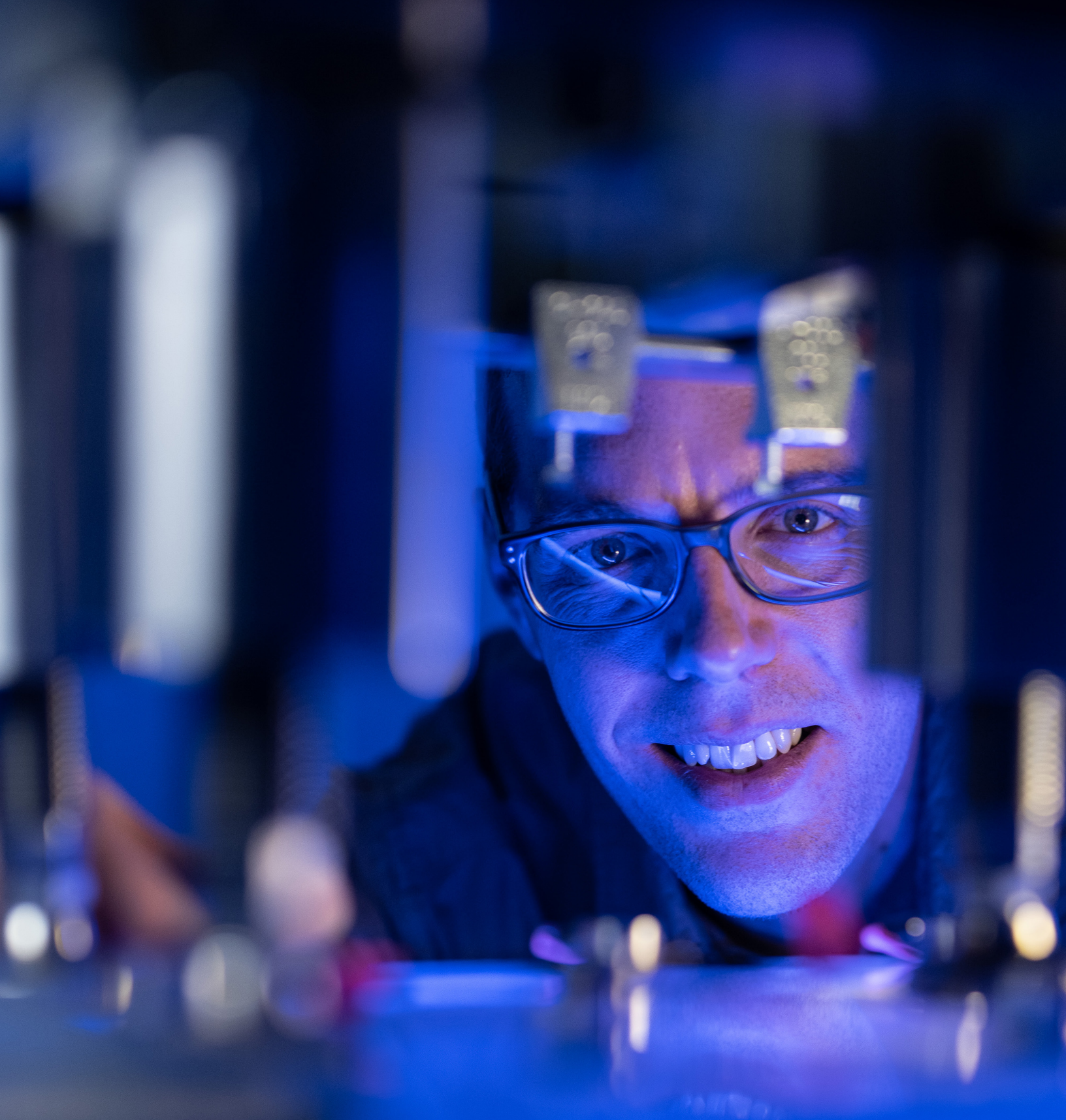


RESEARCH REPORT FY23



THE UNIVERSITY OF
MEMPHIS[®]
Research & Innovation



CARNEGIE R1 STATUS

**University of Memphis: A Tennessee Flagship
Carnegie R1 Research Institution.**



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Left: Thomas Goebel, Center for Earthquake Research and Information. Dr. Goebel is a 2022 NSF CAREER Recipient whose work is focused on induced Seismicity, fault structure, and earthquake source processes.

Cover: Amber Jennings, Biomedical Engineering. Dr. Jennings is a 2019 NSF CAREER Recipient who works with the Department of Defense and other agencies to design biomaterials that fight antimicrobial resistance to implants.



Kevin Berisso, Engineering Technology. Dr. Berisso is leading the development of automated workforce solutions. The Automatic Identification Lab, led by Dr. Berisso, is a leading research facility in bar coding, radio frequency identification (RFID), biometrics and smart cards.

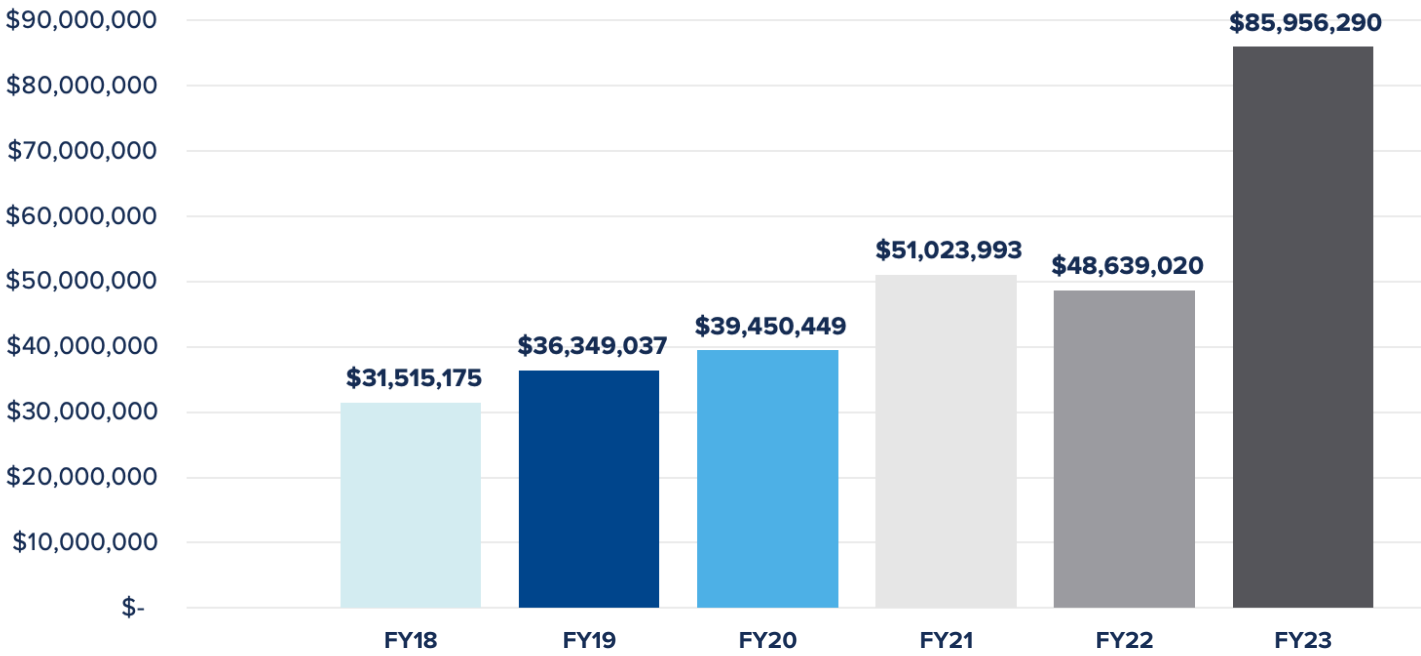
SUMMARY

The University ascends with continued research success.

In 2023, the University of Memphis achieved unprecedented success in funded research. We saw more funding than ever before, more departments achieving high levels of research activity, more millionaire PIs, and more research agencies interacting with our campus. Part of the noteworthy increase for this year can be attributed to the inclusive strategic planning process. Under our new strategic plan, Ascend, the University will continue this progress.

The last five years have yielded an increase in the research award footprint on campus of 273% - from \$31.5 million to just under \$86 million. This rapid near tripling of research awards is now challenging the research infrastructure of campus. The tremendous success of this year builds on a progressing trend of growth that has seen top record breaking trends in all major categories as compared to five years ago (see page 5).

Fiscal Year Totals





Brandt Pence (center), College of Health Sciences. Dr. Pence focuses immunophysiology and identifying how physiological stressors such as diet and exercise impact immune function. His work is supported by NIH and the American Heart Association.



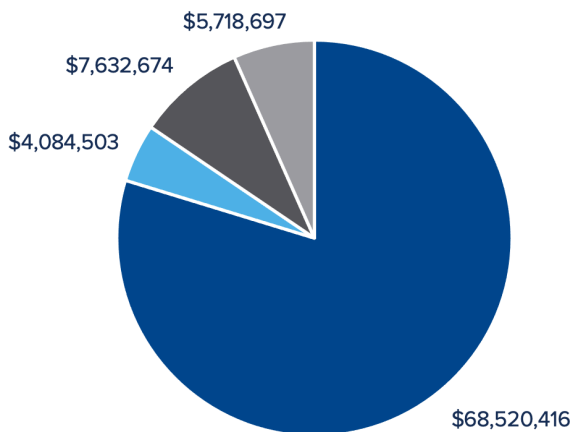
MAJOR TRENDS

2023 was a landmark year for research growth at the University of Memphis. The strength of our research faculty and our role in the region have been enhanced with the designation of R1, and the result has been a significant increase in overall awards. Our total amount of awards - \$86M, is a tremendous step up from our previous record (FY21) of \$51M. This achievement is eclipsed only by the increased diversity of participation in the research enterprise. Twenty units achieved \$1M+ in awards, with four achieving the designation for the first time. We furthered our record number of millionaire PIs to 15 in a single year. A total of 84 new PIs in the last two fiscal years bodes well for the future of UofM research. This increasing participation of faculty signals a more broad-based research culture driven by the need for individual faculty members to fund their own research. Despite the constant number of proposals, the total award amounts have increased dramatically, which is a clear indication of improved quality in proposal submissions. An increase in faculty lines, especially in areas that are funded heavily by federal research agencies, can only increase overall performance.

Research Awards represent federal external dollars being spent in our communities. The diversity of disciplines engaged in the research enterprise, and the inclusion of more partners in our work, has led to a more vibrant community of research that positively impacts the whole region.

FISCAL YEAR DATA

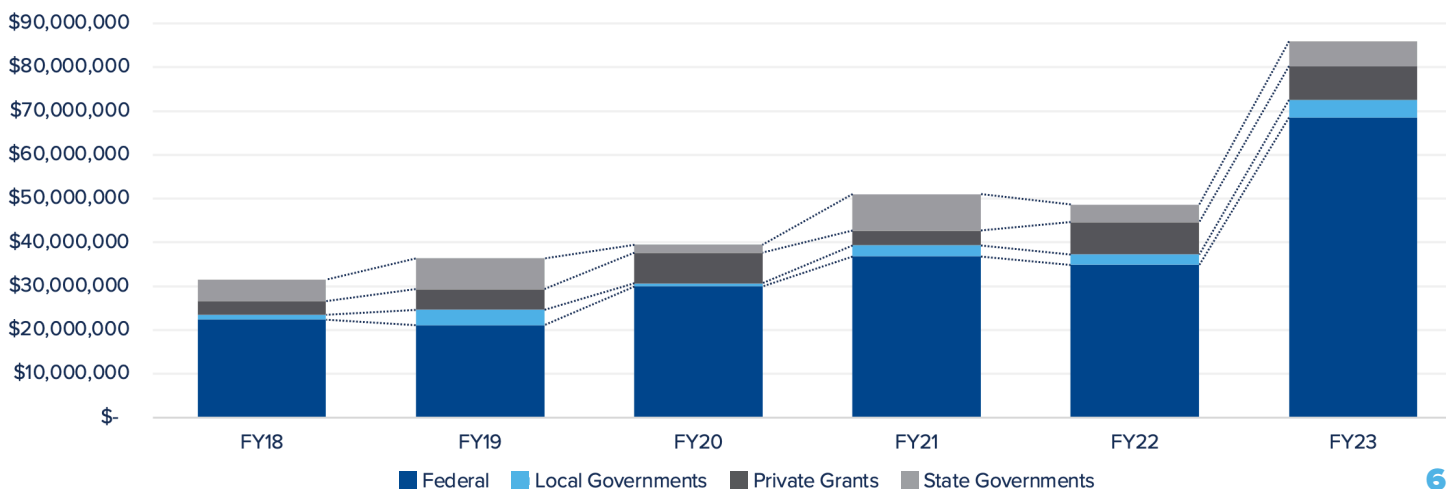
FY23 Award Breakdown



Our total amount of awards—\$86M, is a tremendous step up from our previous record in FY21 of \$51M.

■ Federal ■ Local Governments ■ Private Grants ■ State Governments

Award Breakdown FY18-FY23



RESEARCH LEADERS WINNING MORE THAN \$1 MILLION

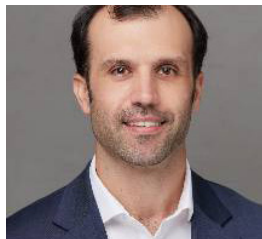
* **Bold:** Deans



Laura
Casey



**Gary
Emmert**



Daniel
Foti



**Richard
Irwin**



**Stephanie
Ivey**



Wesley
James



**Ashish
Joshi**



Kurt
Kraiger



Santosh
Kumar



Sabyasachee
Mishra



Susan
Neely-Barnes



Christos
Papadopoulos



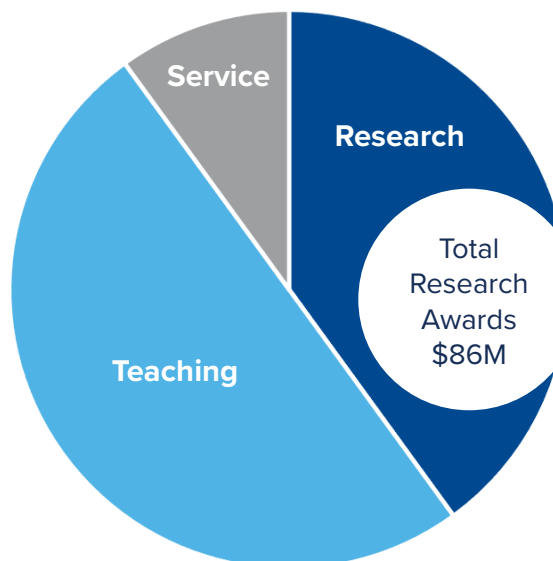
Brian
Waldron



James
Whelan

Total Faculty Salary and Benefits: Approximately \$132M

The average faculty contract is divided into three parts:
 Research – 40%
 Teaching – 50%
 Service – 10%



Externally Funded Research Awards Equal 163% of Faculty Research Effort

Faculty are now more than recouping the University's investment in the research effort.



First Time PIs for FY22 receive their certificates at the 2023 Research Celebration.

STRATEGIC RESEARCH DEVELOPMENT

Ongoing Faculty Support Programs and Key Outcomes

- » **INTEGRIT-E Regional Collaboration:**
 - » The Innovation Through Entrepreneurship Guided by Research, Technology, and Equity is a regional collaboration of over 75 organizations formed in response to the NSF Engines program.
 - » The organization is designed to respond to regional challenges by building networks to apply for funding.
- » **Communities of Research Scholars (CoRS):**
 - » Designed to facilitate collaborations and grow research engagement.
 - » 63 CoRs funded, including faculty from over 51 disciplines.
 - » FY23 programs furthered a regional engagement strategy.
- » **UofM Research Council**
 - » Developed a University of Memphis Centers and Institutes Policy.
 - » IRB Review and Improvement Task Force assembled.
- » **Research Proposal Review Services**
 - » Over 70 proposals reviewed in FY23, leveraging internal and external reviewers from multiple institutions and agencies.
- » **Gap Funding Program**
 - » 16 proposals funded to date.
 - » The program helps faculty who are between grants or revising and resubmitting to federal agencies to continue their research.
- » **NSF CAREER Academy**
 - » Growing new faculty through professional development and comprehensive review services
 - » Career Stats:
 - » NSF CAREER Awards: 9
 - » DoE CAREER Award: 1
 - » Applications Supported: 50+ to date
 - » *UofM among top 25% of NSF CAREER winning institutions*
- » **Fine Arts, Humanities & Social Sciences Grants**
 - » 20 proposals funded to date.
 - » 16 monographs or edited volumes published.
 - » One album released.
- » **Defense Research Engagement**
 - » NDAA support secured for FY21, FY22, FY24.
 - » Defense research networking preparation for faculty
 - » 40+ faculty engaged in defense research initiatives.
- » **FedEx Institute of Technology**
 - » FedEx support has yielded a 10x return on investment in research.
 - » The Systems Testing Excellence Program Lab opened inside the FIT in September 2022.
 - » The Patents2Products Program spun out three additional technology startups from UofM Postdoc Entrepreneurs.
 - » 80+ meetings, workshops, training programs, conferences and other events were offered by the FIT.



» **National Science Foundation Research Experience for Undergrads Cohort Program**

- » 11 participants in inaugural cohort program designed to increase REU applications from UofM.
- » REUs can supplement existing NSF awards and create opportunities for students in STEM disciplines.

» **Carnegie R1 Doctoral Fellowships**

- » 48 PhD students funded to date.
- » Students included in over 60 grant proposals in two years.

» **Carnegie R1 Postdoc Program**

- » 50+ postdocs funded to date.
- » 60+ grant proposals submitted with effort included for continued postdoc funding.
- » Provided comprehensive grantsmanship training to all postdoc members.
- » Current number of PhD qualified research staff: 48
- » Current postdoc count: 37

» **UMRF Junior Professorships**

- » All NSF Career recipients from current and prior years.
- » 2023 Recipients – Aaryani Sajja, Carl Herickoff
- » 2022 Recipients – Thomas Goebel, Kensha Clark
- » 2021 Recipients – Maryam Salehi, Ana Doblaz
- » 2020 Recipients – Ranga Gopalakrishnan, Amber Jennings, Thomas Watson

» **The Conversation Support**

- » Subscription to *The Conversation* aides faculty in publishing to a general readership audience
- » 2.7M+ article reads for UofM faculty authors to date
- » Articles published in *Chicago Tribune*, *USA Today*, *CNN*, *Business Insider*, etc.

» **Research Equipment Database**

- » Searchable database of all UofM research instrumentation, as reported by departments.

» **West Cancer Foundation Research Initiative**

- » Four projects funded to date.
- » Established in the fall of 2020, the West Cancer Foundation Initiative was created to cultivate research across the UofM campus in areas that advance cancer treatment, promote community health and wellness, and/or provide supportive patient care.

» **INFER**

- » Innovative Non-profit and Foundation Engaged Research (INFER) founded in 2020.
- » Seeks to bridge the efforts of researchers (in the areas of social science, life science and the humanities) and nonprofits (with social, human and health services-related missions) to ensure that research efforts are relevant and useful to practitioners and that practice is effective and grounded in “best practice.”

» **PECIR**

- » The University of Memphis and Meharry Medical College partnered to fund six projects that build interdisciplinary partnership between institutions.

» **RISE Fellowship**

- » 70 PhD students funded to date.

» **First Gen STEM**

- » Nine PhD students funded to date.



Arthur C. Graesser Presidential Award for Lifetime Achievement in Research

The Graesser Award is the highest level of research recognition available to University of Memphis faculty. In 2023, Dr. Dipankar Dasgupta (pictured center) was recognized for his lifetime of work advancing cybersecurity and computer science research. Dr. Dasgupta is the Director of Center for Information Assurance and the Hill Professor in Cybersecurity.

FACULTY SUCCESS SPOTLIGHT

National Endowment for the Arts Recognizes Arts Entrepreneurship in Memphis



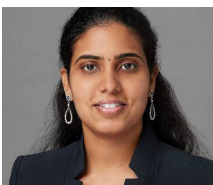
In the first direct award from the NEA to the UofM in recent memory, Dr. Josef Hanson was awarded funding for his project “The Motivations and Experiences of Minority Arts Entrepreneurs”. Dr. Hanson has centered his work on the strong musical traditions of Memphis and the revitalization of music-oriented arts entrepreneurship in our region. He previously served as President of the Society for Arts Entrepreneurship Education.

NSF CAREER AWARDS

Industry-aligned Strength Brings Top Level Talent

The NSF CAREER Award is the among most prestigious junior faculty research awards made by the National Science Foundation. This highly competitive award helps aspiring research leaders to establish their career in a way that sets them up for future growth and funding. This year, the UofM received two CAREER awards – both in the same department. Drs. Aaryani Sajja and Carl Herickhoff call the University of Memphis Biomedical Engineering (BME) Department home. Their awards further a reputation of high quality for the department – including Dr. Jessica Jennings, all junior faculty in BME have been awarded the CAREER. This is an exemplary and rare achievement in higher education.

The Biomedical Engineering Department is a key component of the biomedical device manufacturing landscape in our region. Memphis is the nation’s second largest hub for the industry, and graduates from the UofM BME department are employed in nearly every company in the sector. Through research and student programs, departments like BME at the UofM are driving industry in our region.



**Dr. Aaryani
Tipirneni-Sajja**



**Dr. Carl D.
Herickhoff**

BUILDING REGIONAL CAPACITY THROUGH RESEARCH-DRIVEN COLLABORATION

In 2023, the University of Memphis furthered its role as a leading University not just of Memphis, but the entire Delta Region. Through the work of multiple teams across campus, we have centered our efforts on thinking strategically about the biggest challenges facing the Delta region, and we are rising to meet those challenges through strategic collaborations that seek to build trust by centering on the lived experience of the people who call the region home.

HIGHLIGHTS OF REGIONAL DEVELOPMENT:

Center for Regional Economic Enrichment (CREE)

CREE focuses on enhancing the educational, environmental and economic well-being of the people and places of West Tennessee and the Delta. The Center, launched in 2021, brings together multiple grant funded programs that have focused on serving the people of Tennessee, Arkansas, and Mississippi.



GROWING RELATIONAL AND OCCUPATIONAL WEALTH IN WEST TENNESSEE HOUSEHOLDS

Growing Relational and Occupational Wealth in West Tennessee Households (GROWWTH) has a goal to serve 2,500 low-income households over three years across West Tennessee. Over ten years, the program projects an estimated net benefit of \$850 million, including a boost to the gross domestic product and a savings of \$330 million from reduced social safety net spending. Fueled by a grant from the Tennessee Department of Human Services and Families First program, GROWWTH is a pilot program to help people improve their economic well-being and become self-sufficient. Partners include regional workforce boards (Workforce Mid-South, Southwest Tennessee and Northwest Tennessee), Community LIFT, Abyssinian Baptist Church, Economic Opportunities, Memphis Interfaith Coalition for Action and Hope (MICAHA), Stand for Children, Whole Child Strategies, and The Organizing Expert, and are involved to ensure that the results of the program are sustainable and impact the communities most in need.

Also a part of the CREE Grant-Funded Work:



Keep Tennessee Beautiful is the state level affiliate of Keep America Beautiful. Keep Tennessee Beautiful gives support to over 30 local/county KAB affiliates across the state.



The University of Memphis serves as one of three Memphis-area backbone organizations for the Opportunity Now Program, a program led by Workforce Midsouth and funded through the EDA Good Jobs Challenge. The program is designed to create an accelerated training program for individuals needing to gain sufficient knowledge and/or skills to qualify for jobs in one of three sectors: 1) Logistics Technology; 2) Advanced Manufacturing; 3) Construction.



INTEGRIT-E Partners Lead a Panel on Regional Opportunity. Pictured left to right, Codney Washington, Go Forward Pine Bluff/The Generator, Almeshia Campbell, Jackson State University, Adrienne Cooper, CREOPP Program Director, Ernest Strickland, Black Business Association of Memphis, Cassandra Williams, Hope Enterprise Corporation/Hope Credit Union

Capacity Research Equity Opportunity Pilot Project (CREOPP):

To bring transformational change to communities in the Delta region, we need to win grants. Yet, most communities in our region are under-resourced, and do not have the resources to apply for, win, and manage grants. CREOPP provides intensive support to help communities secure grant funding and achieve equitable and sustainable growth which helps the Delta to thrive.

There have been attempts by Federal agencies to connect rural and disadvantaged communities to funding opportunities, but simply connecting these communities to funding is not enough. Through the CREOPP program, the UofM is partnering with rural communities in the Delta region to identify funding, write the grant applications, and advise on establishing the partnerships and processes that ensure the sustainability of funding into the future. The pilot community participants are:

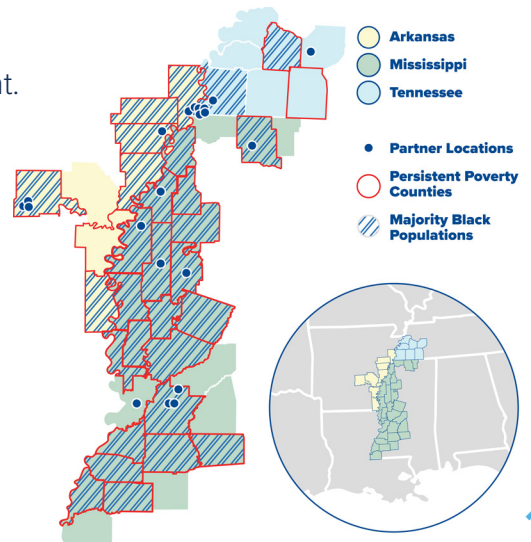
- » AR: Helena, Osceola, Eudora
- » MS: Hazlehurst, Port Gibson, Tunica
- » TN: Brownsville, Whiteville

The goal of the program is to secure federal funding within 18 months of initial participation from federal granting agencies. By approaching the challenges of the Delta region through a regional collaboration centered on partnership that creates sustainable wealth, we can make progress towards overcoming pervasive poverty especially in minority and rural communities.

The CREOPP Program includes modules on impact investing, rural development, and strategic grantsmithing skill development.

Building Regional "Integrity":

To strengthen regional collaboration, the University of Memphis led the development of a consortium of institutions across 43 counties in the Delta. The Innovation Through Entrepreneurship Guided by Industry, Technology, and Equity (INTEGRIT-E -pronounced integrity) brought together over 75 organizations across the Delta to examine big trends and challenges. Over six grants have been submitted to extend this effort, including CREOPP mentioned above.



Center for Community Research and Evaluation (CCRE)

The mission of the Center for Community Research and Evaluation (CCRE) is to provide interdisciplinary social science research and evaluation support for community-based projects. The Center for Community Research and Evaluation (CCRE) at the University of Memphis strives to be the leading source of expertise on community transformation in the Mid-South. The center serves as a vital partner in research and evaluation of community-based projects, provides consulting services and conducts original research in the areas of rural and urban poverty, education, and health.

The CCRE partnership with Delta Health Alliance helps to address major challenges in the region. The partnership includes comprehensive service and support of the DHA's mission to improve the health and education of the men, women, and children who make the Mississippi Delta their home. Recently the partnership has worked on the Delta Futures program, which has effectively reduced teen pregnancy in the region. Overall, the most intensely served counties across the Delta have more than doubled the chances of a sharp decline in teen pregnancies than their lesser served counterparts, providing strong evidence for the effectiveness of this program.



Urban-Rural Systems Research Coordination Network

The Mississippi River is an economic and environmental ecosystem that stretches from the Gulf of Mexico to Northern Minnesota. Across the whole region, common challenges persist:

- » Urban and suburban sprawl;
- » Disconnected food, energy, and water systems;
- » Frequent floods and uncontrolled water runoff;
- » Urban heat-induced hospitalizations;
- » Lack of ecosystem services; and
- » Climate change impacts.

The University of Memphis Design Collaborative has partnered with others in the region to consider land policy issues that impact the urban-rural interface, including land use and zoning, urban density and floor area ratios, land use patterns, urban nature, urban expansion plans, building designs and infrastructure, as well as urban ecosystems, biodiversity and climate adaptation. The University of Memphis' Drs. Andy Kitsinger and Charlie Santo will lead the Memphis section along with colleagues in Baton Rouge, St. Louis, and Minneapolis.

Researchers plan for this project to lead to new regional policies and government actions that can create more resilient and sustainable environments for people living in the Mississippi River basin and other similar regions.





CULTIVATING A DYNAMIC RESEARCH ECOSYSTEM

- » UMRF Research Park
- » UMRF Ventures
- » Phi Kappa Phi Innovation in Excellence Award Semifinalist
- » American Association of State Colleges and Universities Award
- » APLU Innovation Award Finalist
- » 21 Licensed Technologies
- » Patents2Products (P2P)
- » Seven companies launched



DEEP SCIENCE ENTREPRENEUR POST-DOC FELLOWSHIPS



TECHNOLOGY TRANSFER HIGHLIGHTS

- » **Efficient Forwarding Information Base Caching System and Method**
by Lan Wang, U.S. Patent 11,489,771 (11/1/2022)
- » **Multi-user Permission Strategy to Access Sensitive Information (*Shared Trust*)**
by Dipankar Dasgupta, U.S. Patent 11,503,035 (11/15/2022)
- » **Improving Transient Stability of Grid-connected Wind Generator System**
by Mohd Ali, U.S. Patent 11,509,138 (11/22/2022)
- » **Composition and Method for Delivering an Agent to a Wound**
by Warren Haggard and Joel Bumgardner, U.S. Patent 11,576,975 (2/14/2023)
- » **Blockchain-based Decentralized Public Key Management System**
by Lan Wang, U.S. Patent 11,582,024 (2/14/2023)
- » **Composition and Method for Inhibiting Inflammation**
by Gary Bowlin, U.S. Patent 11,202,850 (12/21/2021)
- » **Controlling Biofilms with Cyclopranated Fatty Acid**
by Jessica Jennings, U.S. Patent 11,311,506 (4/26/2022)

Companies Currently Licensing UofM Technologies

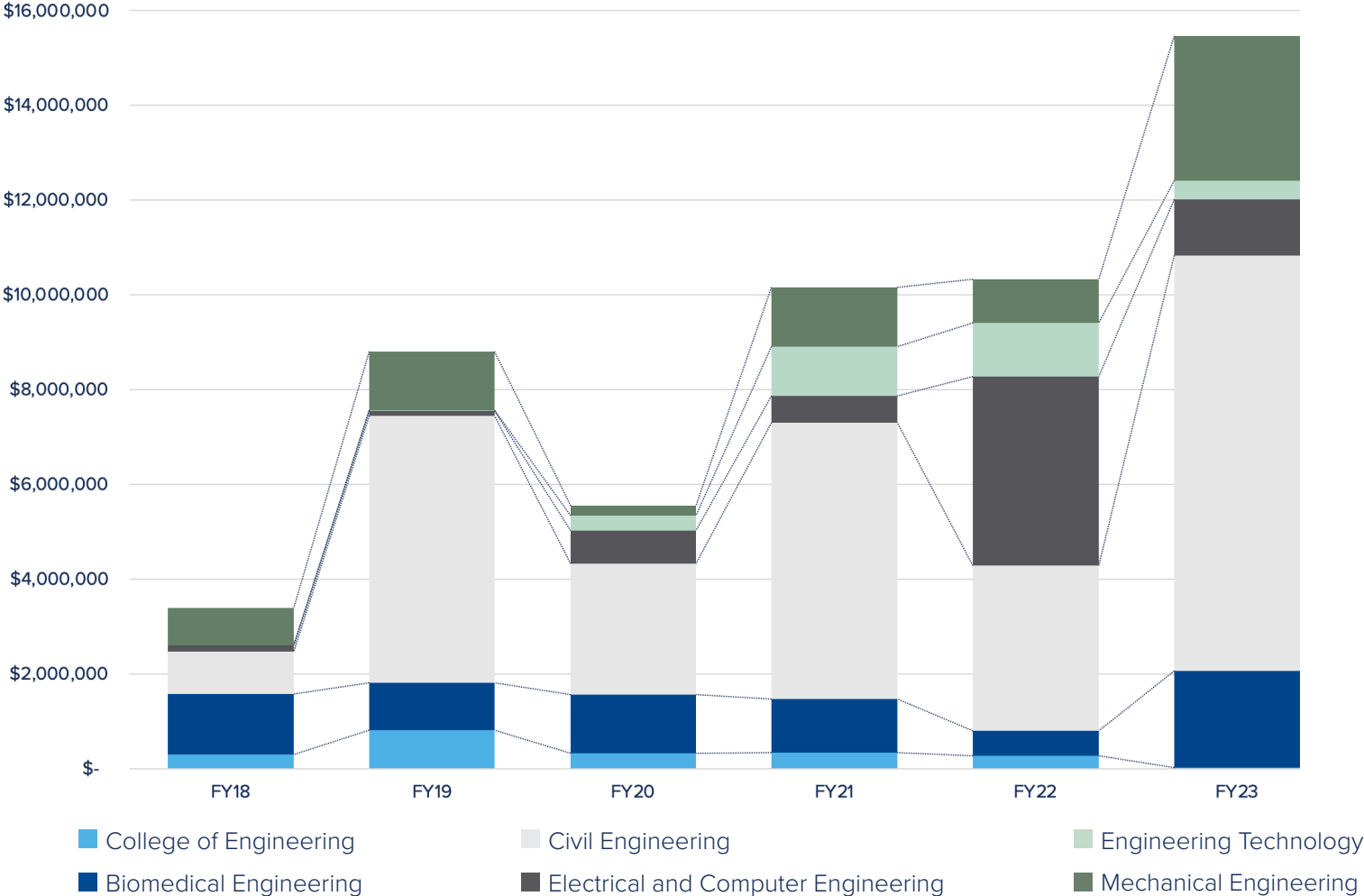




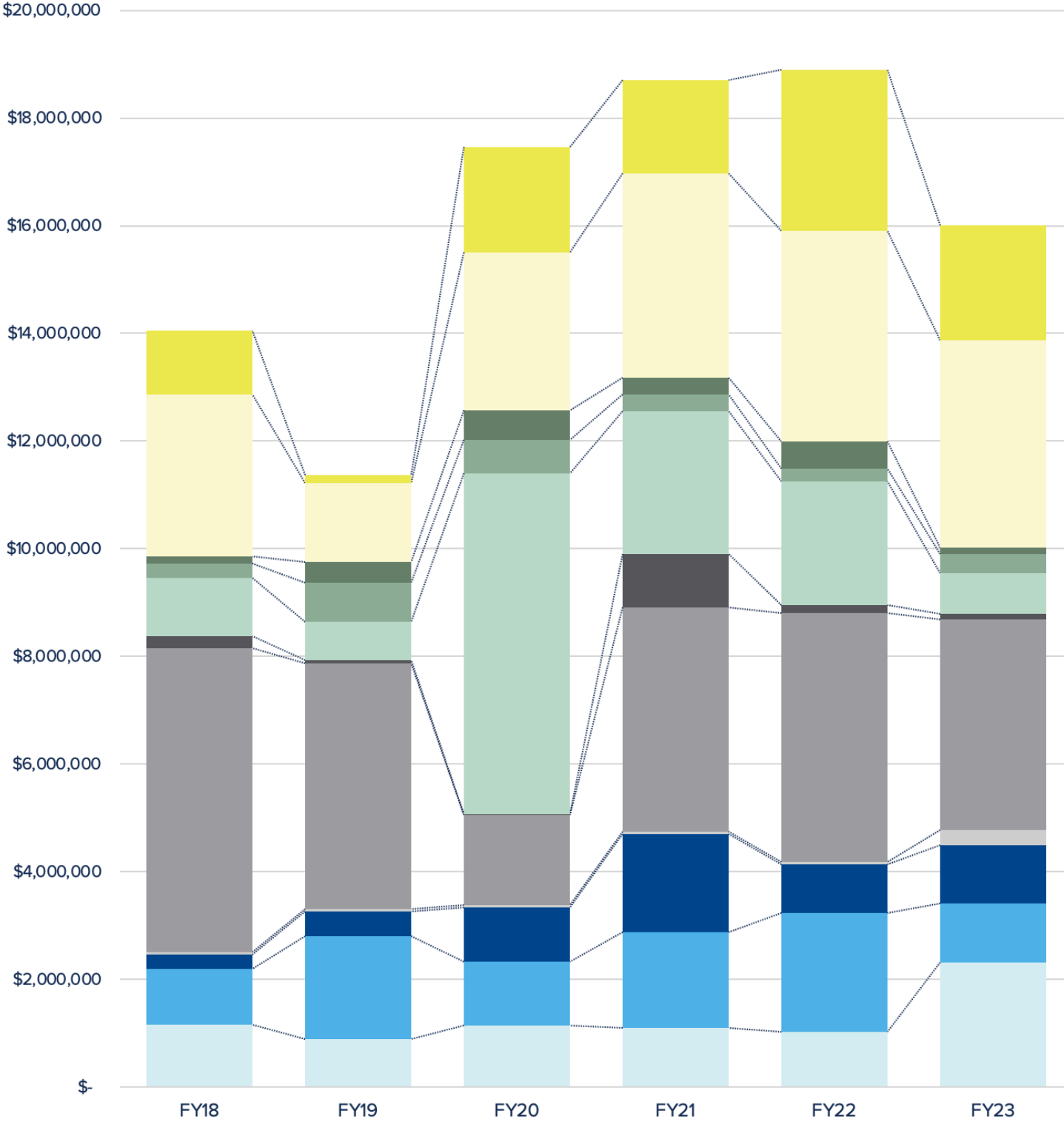
Ranganathan Gopalakrishnan, Mechanical Engineering. Dr. Gopalakrishnan received the University's first DoE Career award in 2020. He has since gone on to pioneer work with the DoD and DoE on dusty plasmas for large scale materials synthesis.

PROGRESS OF STEM ACADEMIC UNITS

Engineering Departments



Arts and Sciences Departments



- Biology
- Center for Earthquake Research & Information
- Chemistry
- College of Arts and Sciences
- Computer Science
- Earth Sciences
- Institute For Intelligent Systems
- Mathematics
- Physics and Materials Science
- Psychology
- Social Work

Principal Investigators with \$500K+ in Awards

*Note: \$\$ obligated amount in FY

| FY21 Faculty | | FY 22 Faculty | | FY 23 Faculty | |
|-----------------------------|--------------------|----------------------------|--------------------|-----------------------------|--------------------|
| Marshall, Melissa | \$4,919,560 | Jacobs, Eddie | \$3,231,722 | Irwin, Richard | \$26,896,151 |
| Casey, Laura | \$3,140,880 | Waldron, Brian | \$2,245,011 | Joshi, Ashish | \$8,758,721 |
| Waldron, Brian | \$2,828,561 | Neely-Barnes, Susan | \$1,558,317 | Waldron, Brian | \$4,473,617 |
| Kumar, Santosh | \$2,398,500 | Dasgupta, Dipankar | \$1,265,422 | James, Wesley | \$2,181,986 |
| Rus, Vasile | \$1,707,863 | Whittaker, Jeremy | \$1,264,215 | Whelan, James | \$1,970,290 |
| James, Wesley | \$1,486,806 | Yang, Kan | \$1,261,161 | Foti, Daniel | \$1,695,800 |
| Boykins, Anita | \$1,360,830 | Collins, Tracy | \$1,257,855 | Papadopoulos, Christos | \$1,430,745 |
| Gopalakrishnan, Ranganathan | \$1,114,477 | Kumar, Santosh | \$1,232,151 | Kraiger, Kurt | \$1,400,393 |
| Neely-Barnes, Susan | \$1,095,290 | Whelan, James | \$1,205,000 | Ivey, Stephanie | \$1,372,094 |
| Berisso, Kevin | \$1,035,237 | Irwin, Richard | \$1,120,905 | Kumar, Santosh | \$1,318,430 |
| Ivey, Stephanie | \$1,028,849 | Withers, Mitchell | \$1,058,028 | Neely-Barnes, Susan | \$1,318,178 |
| Ozdenrol, Esra | \$1,000,000 | Bekis, Barbara | \$945,839 | Emmert, Gary | \$1,287,112 |
| Murphy, James | \$889,701 | LeDoux, Mark | \$911,040 | Casey, Laura | \$1,173,752 |
| Wang, Lan | \$865,000 | Hirschi, Melissa | \$844,097 | Mishra, Sabyasachee | \$1,003,825 |
| Withers, Mitchell | \$841,311 | Zoblotsky, Todd | \$823,783 | Ali, Mohd | \$953,000 |
| Salehi Esfandarani, Maryam | \$827,197 | Smeltzer, Matthew | \$803,553 | Gopalakrishnan, Ranganathan | \$833,217 |
| Fagan, Thomas | \$770,364 | Levy, Marian | \$776,757 | Mandel, Jennifer | \$811,531 |
| Hunter, William | \$750,000 | Goebel, Thomas | \$769,960 | Herickhoff, Carl | \$810,686 |
| Zhao, Xuan | \$726,990 | Rus, Vasile | \$715,941 | Levy, Marian | \$786,263 |
| Rudd, Loretta | \$694,845 | Hunter, William | \$700,000 | Bloomer, Richard | \$754,448 |
| Parrill-Baker, Abby | \$651,741 | Bloomer, Richard | \$698,342 | Withers, Mitchell | \$716,729 |
| Karmaus, Wilfried | \$589,485 | Rudd, Loretta | \$684,209 | Hunter, William | \$700,000 |
| Santo, Charles | \$575,537 | Ivey, Stephanie | \$640,028 | Pichon, Latrice | \$679,459 |
| Harding, Melvyn | \$536,993 | Parrill-Baker, Abby | \$628,317 | Anderson, Celia | \$652,440 |
| Smeltzer, Matthew | \$532,965 | Pichon, Latrice | \$628,285 | Pence, Brandt | \$652,164 |
| Mishra, Sabyasachee | \$519,359 | McGinnis, James | \$599,997 | Whittaker, Jeremy | \$648,000 |
| Pichon, Latrice | \$505,336 | Clark, Kensha | \$590,000 | Smeltzer, Matthew | \$637,081 |
| Sutter, Thomas | \$502,250 | West, Steven | \$566,365 | Sajja, Aaryani | \$609,976 |
| | | Sabatini, John | \$556,777 | Gkolias, Michail | \$597,272 |
| | | Harding, Melvyn | \$536,993 | Harding, Melvyn | \$536,993 |
| | | Berisso, Kevin | \$533,971 | Sabatini, John | \$533,029 |
| | | Kedia, Satish | \$518,555 | Rudd, Michael | \$513,967 |
| | | McKenna, Duane | \$506,597 | Luu, Linh | \$500,000 |
| | | Murphy, James | \$501,805 | | |

* **Bold:** Received \$500K, or more, in FY21, FY22 and FY23 (3 consecutive years)

Research Units with \$1M+ in Awards

*Note: \$\$ is obligated amount in FY

| Research Unit | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 |
|--|-------------|-------------|-------------|-------------|-------------|--------------|
| UofM Global | | | | | \$445,000 | \$26,898,504 |
| School of Public Health | \$704,122 | \$421,778 | \$437,079 | \$308,149 | \$428,011 | \$9,157,638 |
| CAESER | \$351,304 | \$3,639,421 | \$964,278 | \$2,928,579 | \$2,391,309 | \$5,336,127 |
| Computer Science | \$5,643,879 | \$4,558,806 | \$1,675,828 | \$4,157,486 | \$4,517,323 | \$3,919,426 |
| Psychology | \$2,828,440 | \$1,294,557 | \$2,758,135 | \$3,611,995 | \$3,915,705 | \$3,854,061 |
| Instruction and Curriculum Leadership | \$1,525,398 | \$1,652,731 | \$1,884,702 | \$3,890,880 | \$984,096 | \$3,244,619 |
| Mechanical Engineering | \$781,565 | \$1,242,584 | \$212,712 | \$1,250,767 | \$909,745 | \$3,045,530 |
| Biology | \$1,150,836 | \$893,769 | \$1,137,560 | \$1,093,838 | \$1,020,292 | \$2,306,784 |
| Sociology | \$303,163 | \$379,613 | \$370,676 | \$1,486,806 | \$234,490 | \$2,161,986 |
| Social Work | \$1,190,317 | \$142,500 | \$1,951,753 | \$1,738,217 | \$2,987,173 | \$2,137,455 |
| Biomedical Engineering | \$1,277,712 | \$997,911 | \$1,236,040 | \$1,142,052 | \$522,945 | \$2,041,355 |
| College of Health Sciences | | | | \$64,761 | \$1,000,873 | \$1,795,441 |
| Social and Behavioral Sciences | \$158,980 | \$618,677 | \$738,670 | \$787,778 | \$1,547,681 | \$1,555,921 |
| Management | | | | | | \$1,548,413 |
| C-TIER | | | | | \$322,527 | \$1,471,098 |
| School of Urban Affairs and Public Policy | | | \$525,000 | \$1,100,537 | \$775,757 | \$1,242,933 |
| Electrical and Computer Engineering | \$73,828 | \$103,586 | \$691,932 | \$374,970 | \$3,974,650 | \$1,177,558 |
| Center for Earthquake Research & Information | \$1,043,633 | \$1,899,837 | \$1,180,062 | \$1,782,242 | \$2,016,646 | \$1,093,129 |
| Chemistry | \$271,257 | \$467,608 | \$1,017,346 | \$1,827,035 | \$908,635 | \$1,086,610 |

COMMUNITIES OF RESEARCH SCHOLARS (CORS)

FY23 Awarded Projects

Identifying Opportunities for Renewables and Energy Storage in the Mid-South

Alexander Headley, *Mechanical Engineering*

The Language of Science: Implications for Teaching and Learning

Alistair Windsor, *Institute for Intelligent Systems*

Creating a Culturally Adapted Social-Emotional Learning Curriculum: DBT STEPS-A with Black/African American Adolescents

Amanda Hasselle, *Psychology*

Establishing an Interdisciplinary Research Collaboration in the Fields of Machine Learning and Additive Manufacturing

Amir Hadadzadeh, *Mechanical Engineering*

Investigation of a Multiplexed Wearable Sensor to Identify Engineering Undergraduate Students at Risk in Their Major by Means of Artificial Intelligence

Ana Doblas, *Electrical and Computer Engineering*

Exploring Synergies in Astrophysical and Engineering Simulation

Benjamin Keller, *Physics and Materials Science*

Campus Dating Violence Collaborative

Bernadette Ombayo, *Social Work*

Climate, Environmental, and Energy Justice Research (CEEJR)

Chunrong Jia, *Environmental Health*

Passport to Teach and Learn: UofM Interdisciplinary Training for Graduate Teaching Assistants and New Non-Tenured Faculty

Crystal White, *Educational Psychology and Research*

Identifying the Potential Determinants of Death among Hypertension Patients while Staying at the Hospital using Publicly Available Clinical Datasets

Faruk Ahmed, *Engineering Technology*

Regional Strategy for Regenerative Agriculture and Innovation

Leah Windsor, *Institute for Intelligent Systems*

Supporting Data Collection Process: Evaluating Communication Strategies to Reduce Distracted Driving Among Adolescents

Maria Jaramillo and Subhash Jha, *Marketing and Supply Chain Management*

Virtual Reality Working Group

Marika Snider, *Architecture*

The Annual Memphis Neuroscience Symposium

Nicholas Simon and Miriam van Mersbergen, *School of Communication Sciences and Disorders*

Exploring the Role of Social Determinants of Health on Sepsis 90-day Sepsis Readmissions

Reba Umberger, *Nursing*

An Interdisciplinary Research to Incorporate Machine Learning Techniques in Mechanical and Fatigue Life Predictions of Additive Manufactured Materials

Reza Molaei, *Mechanical Engineering*

Research on Intimate Partner Violence Collaborative

Sarah Leat, *Social Work*

The Tiger Blueprint: Building Extended Learning Programs through the Cypher Code Collective

William Hunter, *Special Education*

Metadata-aware Imbalance Modeling for Clinical Outcome Assessment

Xiaolei Huang, *Computer Science*

Designing A Culturally Tailored Diet Management Application for Type 2 Diabetic Patients

Yafang Li, *Department of Business Information Technology*

Aerogel-Based Acoustic Tumor-on-a-Chip Model for Cancer Metastasis Research,

Yuan Gao, *Mechanical Engineering*



Eddie Jacobs, EECE. Dr. Jacobs is pioneering sensor-based multi-drone analysis. With both defense and agricultural applications, his work is advancing Memphis as a destination for unmanned systems solutions (pictured with fixed wing drone).

FIRST-TIME PRINCIPAL INVESTIGATORS FOR FY23

Celia Anderson, *Instruction and Curriculum Leadership*

Leigh Boardman, *Biological Sciences*

Michelle Brasfield, *Counseling, Educational Psychology & Research*

Jamie Brunson, *College of Health Sciences*

Melanie Burgess, *Counseling, Educational Psychology & Research*

Qianyi Cheng, *Chemistry*

Daniel Collier, *Leadership*

Mohammadreza Davoodi, *Electrical and Computer Engineering*

Anna Falkner, *Instruction and Curriculum Leadership*

Lindsey Feldman, *Anthropology*

Mark Gillenson, *Fogelman College of Business Economics*

Alexandrea Golden, *Psychology*

William Jackson, *Earth Sciences*

Subhash Jha, *Marketing & Supply Chain Management*

Kristen Jones, *Management*

Ashish Joshi, *School of Public Health*

Kurt Kraiger, *Management*

Philip Kunz, *School of Accountancy*

Rebecca Laumann, *International Programs*

Jose Lopez, *Economics*

Linh Luu, *Health Center*

Brian Meredith, *Graduate Programs*

Patrick Murphy, *Counseling, Educational Psychology & Research*

Cynthia Muzzi, *Center for Research in Educational Policy*

Suzanne Onstine, *History*

Viktoriya Pleshkan, *Loewenberg College of Nursing*

Caitlin Porter, *FCBE Academic Administration*

Sandra Richardson, *Fogelman College of Business Economics*

Nichelle Robinson, *College of Education*

Scott Schoefernacker, *CAESER*

Gary Stinchcomb, *Earth Sciences*

William Thompson, *College of Arts and Sciences*

Gina Tillis, *Instruction and Curriculum Leadership*

Sharon Wrobel, *Public and Nonprofit Administration*

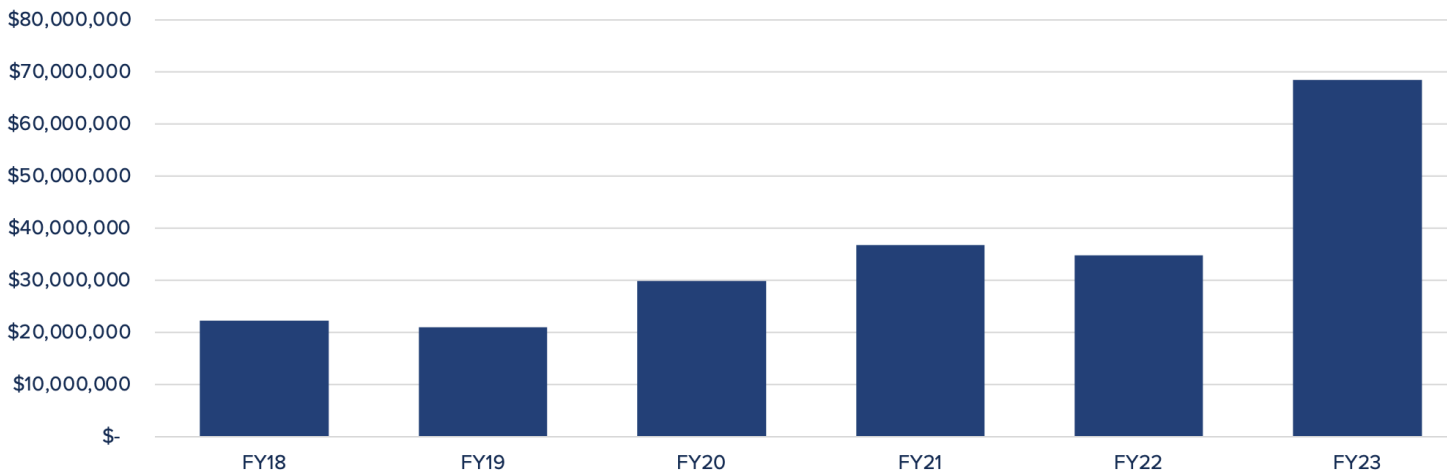
Mohammed Yeasin, *Electrical and Computer Engineering*

Velma Zahirovic-Herbert, *Fogelman College of Business Economics*

Xiaofei Zhang, *Computer Science*

DETAILED VIEW | FEDERAL AWARDS

*Note: \$\$ is obligated amount in FY



Federal Funding By Source

| Funding Source | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 |
|--|-------------|-------------|-------------|-------------|-------------|--------------|
| U.S. Department of Health and Human Services | \$359,374 | \$401,400 | \$660,321 | \$2,030,801 | \$598,901 | \$25,447,360 |
| Centers For Disease Control | | | | \$599,217 | \$1,431,937 | \$10,871,089 |
| National Science Foundation | \$2,772,267 | \$3,728,217 | \$8,549,222 | \$8,919,989 | \$6,711,757 | \$6,783,826 |
| National Institutes of Health | \$6,881,989 | \$7,029,329 | \$6,759,200 | \$6,573,211 | \$4,318,128 | \$5,739,078 |
| U.S. Economic Development Administration | | | | \$490,833 | | \$3,296,544 |
| Health Resources and Services Administration | \$970,591 | \$12,143 | \$3,604,701 | \$3,784,476 | \$6,356,954 | \$2,753,764 |
| U.S. Department of Education | \$3,409,391 | \$2,251,692 | \$4,522,972 | \$6,279,542 | \$3,634,096 | \$2,665,265 |
| Federal Highway Administration | \$49,952 | \$40,328 | | | | \$1,384,896 |
| U.S. Army Research Office | \$122,961 | \$83,494 | \$98,634 | \$147,465 | \$2,707,364 | \$1,222,623 |
| Office of Naval Research | \$323,824 | \$60,000 | \$411,453 | \$50,000 | \$120,176 | \$1,039,824 |
| U.S. Geological Survey | \$914,068 | \$1,772,183 | \$993,862 | \$1,190,591 | \$1,462,308 | \$1,021,631 |

Top 10 Federally Funded Projects By Fiscal Year

*Note: \$\$ is obligated amount in FY

FY22

Multi-UAS Multi-Sensor Intelligence, Surveillance, and Reconnaissance (ISR) | Eddie Jacobs
\$2,707,364

Supporting the Retention of Next Generation Registered Nurses (STRONG-RNs) | Jeremy Whittaker
\$1,264,215

CyberCorps: New Scholarships for Service (SFS) Program at the University of Memphis | Kan Yang
\$1,261,161

Health, Education, and Access for Rural Tennesseans (HEART) | Tracy Collins
\$1,257,855

mHealth Center for Discovery, Optimization & Translation of Temporally-Precise Interventions (mDOT) (multi-year award) | Santosh Kumar
\$1,154,454

Cybersecurity Education for Critical Infrastructure Protection (in Community Development) through Regional Coalition | Dipankar Dasgupta
\$1,014,076

INTEGRATE (INterprofessional TEams GRounded in Apprenticeship, Telehealth, and Evidence) | Susan Neely-Barnes
\$931,153

External Evaluator - ERVA: The Vision for Engineering Leadership -a Multi-sector Alliance (VELMA) | Todd Zoblotzky
\$799,798

Operation of the Mid-America Integrated Seismic Network 2020-2024 (CERI) (multi-year award) | Mitchell Withers
\$702,675

iCODE: Investigating and Scaffolding Students' Code Comprehension Processes To Improve Learning, Engagement, and Retention | Vasile Rus
\$650,600

FY23

Growing Relational and Occupational Wealth in West Tennessee Households | Richard Irwin
\$25,000,000

Center for Public Health Informatics, Data, Equity, Analytics, and Systems (PH-IDEAS) | Ashish Joshi
\$8,739,721

Forward Now | Richard Irwin
\$1,896,151

Black Wealth Advancement through New Business and Knowledge Development (BANK) | Kurt Kraiger
\$1,400,393

mHealth Center for Discovery, Optimization & Translation of Temporally-Precise Interventions (mDOT) (multi-year award) | Santosh Kumar
\$1,143,420

Collaborative Research: CCRI: NEW: Open Community Platform for Sharing Vehicle Telematics Data for Research and Innovation | Christos Papadopoulos
\$871,098

Cavitation Erosion: Model to Full Scale | Daniel Foti
\$830,000

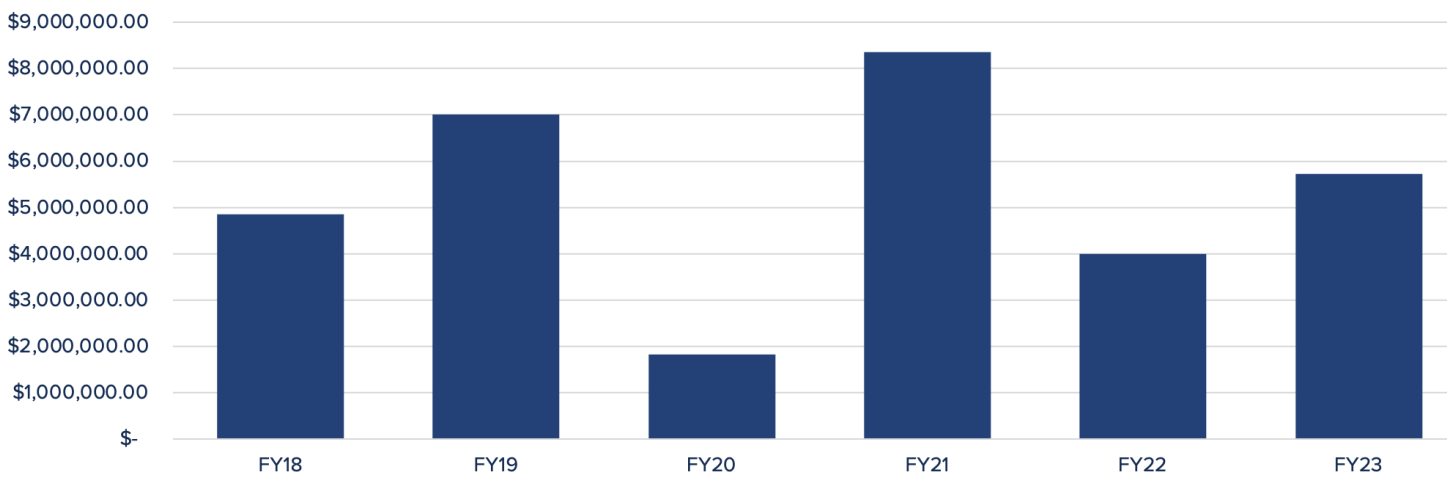
Collaborative Research: RESEARCH-PGR: Comparative Genomics of the Capitulum: Deciphering the Molecular Basis of a Key Floral Innovation | Jennifer Mandel
\$811,531

Theoretical and Experimental Investigation of Grain Charging, Coagulation and Heating in Dense Non-thermal Dusty Plasmas for Large Scale Materials Synthesis | Ranganathan Gopalakrishnan
\$725,689

UofM Home/Community Based Early Intervention (HCBEI) Services | Laura Casey
\$718,212

DETAILED VIEW | STATE AWARDS

*Note: \$\$ is obligated amount in FY



State Funding By Source

| Funding Source | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 |
|---|-------------|-------------|-----------|-------------|-------------|-------------|
| TN Department of Mental Health and Substance Abuse Services | \$185,070 | \$187,752 | \$180,000 | \$360,000 | \$1,205,000 | \$2,095,290 |
| Tennessee Department of Education | \$1,508,245 | \$1,738,245 | \$238,245 | \$1,012,245 | \$938,245 | \$1,596,480 |
| Tennessee Department of Agriculture | | | \$160,000 | \$240,000 | | \$598,000 |
| Tennessee Department of Transportation | \$998,569 | \$4,150,941 | \$194,794 | \$5,655,715 | \$711,023 | \$477,974 |
| State of Tennessee | \$1,206,482 | \$230,914 | \$360,027 | \$179,168 | \$299,200 | \$281,374 |
| West Tennessee River Basin Authority | | | | \$165,000 | | \$176,784 |
| Tennessee Higher Educ Commission | \$363,131 | \$138,555 | \$121,800 | \$152,300 | \$217,500 | \$153,083 |
| Virginia Department of Education | | | | | \$92,308 | \$99,197 |
| University of Tennessee Health Science Center | \$129,808 | \$240,472 | \$24,941 | | \$56,880 | \$60,941 |
| Paris Special School District | | | | | | \$56,060 |
| Mississippi Soybean Promotion Board | | | | | | \$48,947 |
| Tennessee Department of Commerce and Insurance | \$77,874 | \$54,217 | \$47,548 | \$50,730 | \$36,484 | \$42,214 |
| University of Tennessee - Knoxville | \$32,829 | | | | \$15,000 | \$30,000 |
| Tennessee Technological University | | | | | | \$2,353 |

Top 10 State Funded Projects By Fiscal Year

*Note: \$\$ is obligated amount in FY

FY22

Change the odds: a multi platform approach to gambling treatment *(multi-year award)* |

James Whelan

\$1,205,000

Multi-Tiered Systems of Support for Behavior and Academics *(multi-year award)* |

William Hunter

\$700,000

University of Memphis, Byway Management Program | Richard Irwin

\$675,905

TN Governor's School for International Studies | Keri Brondo

\$238,245

Administration of the Minority Engineering Scholarship | Isaiah Surbrook

\$205,000

CoM Stormwater GIS reintegration *(multi-year award)* | Brian Waldron

\$190,000

GIVE 2.0 | Bradley Harrell

\$150,000

Loewenberg College of Nursing - Lactation Support Program | Genae Strong

\$148,300

Virginia 21st CCLC 2022 | Jack Strahl

\$92,308

TN Doctoral Scholars program | Robin Poston

\$67,500

FY23

Change the odds: a multi platform approach to gambling treatment *(multi-year award)* |

James Whelan

\$1,970,290

Multi-Tiered Systems of Support for Behavior and Academics *(multi-year award)* | William Hunter

\$700,000

University of Memphis College of Education Grow Your Own Program | Celia Anderson

\$652,440

TDA Phase 2 | Brian Waldron

\$598,000

Stormwater Conveyance from Bridge Decks | Claudio Meier

\$337,975

Governor's School for International Studies | William Thompson

\$238,245

BlueOval Muddy Creek | Brian Waldron

\$176,784

CoM Stormwater GIS reintegration *(multi-year award)* | Brian Waldron

\$172,174

Public Behavioral Health Workforce Recruitment and Outreach Initiative | Susan Elswick

\$125,000

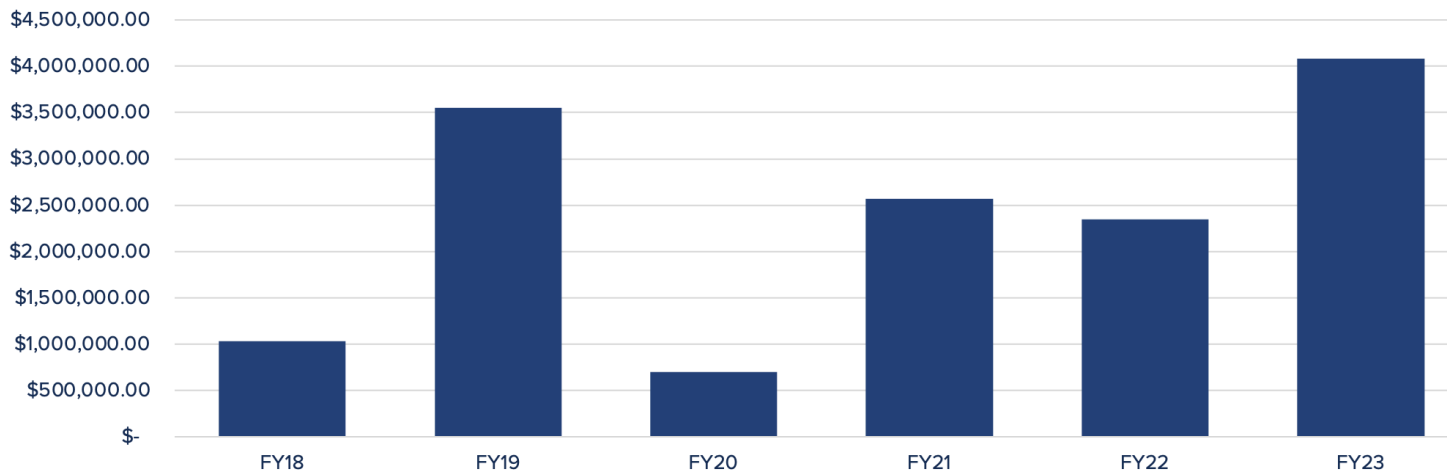
Informed Safety, Mobility, and Driver Comfort Enhancement Practices for Work Zones: Learnings from High-Fidelity Data |

Sabyasachee Mishra

\$99,999

DETAILED VIEW | LOCAL PUBLIC AWARDS

*Note: \$\$ is obligated amount in FY



Top Local Public Funding Sources for Research

| Funding Source | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 |
|---|-----------|-------------|-----------|-------------|-------------|-------------|
| Memphis Light Gas and Water | | \$2,235,000 | | \$1,509,000 | \$1,642,887 | \$2,720,798 |
| Shelby County Government | \$37,092 | \$29,000 | | | \$35,000 | \$350,000 |
| City of Collierville | \$9,500 | \$9,500 | \$41,500 | \$41,500 | \$73,500 | \$305,864 |
| Shelby County Schools | | \$316,248 | \$4,261 | \$90,898 | \$133,340 | \$169,886 |
| City of Bartlett | \$16,100 | \$16,100 | \$16,100 | \$16,100 | \$16,100 | \$132,200 |
| Memphis Area Transit Authority | \$127,209 | | \$107,458 | \$120,000 | | \$129,999 |
| City of Millington | \$10,000 | | \$5,000 | \$10,000 | \$5,000 | \$96,313 |
| Great Lakes Water Authority | | | | | | \$84,444 |
| Shelby County Community Services Agency | | | | | \$24,960 | \$49,999 |
| City of Germantown | \$16,100 | \$45,000 | \$45,000 | \$45,000 | \$45,000 | \$45,000 |

Top 10 Locally Funded Projects By Fiscal Year

*Note: \$\$ is obligated amount in FY

FY22

MLGW Aquitard Year 4 *(multi-year award)* |
Brian Waldron
\$1,342,887

City of Memphis Neighborhood Preservation
Clinic | Daniel Schaffzin
\$314,333

MLGW General | Brian Waldron
\$300,000

SCS Culinary Arts Program at Bolton High *(multi-
year award)* | Radesh Palakurthi
\$94,000

Collierville GW Quality Research | Daniel Larsen
\$64,000

BCS 2.0 | Brian Waldron
\$56,580

Germantown GW Support | Brian Waldron
\$45,000

SCS-Bolton HS Ambassadors | Stephanie Ivey
\$39,340

Why Do Individuals Continue to Engage in
Violent Crime?: Expected Early Death and Crime
Desistance in Memphis | William Gibbons
\$35,000

Evaluation of Shelby County Youth Assessment
Center | Timothy McCuddy
\$24,960

FY23

MLGW General WHPP | Brian Waldron
\$1,625,000

MLGW Aquitard Year 5 *(multi-year award)* |
Brian Waldron
\$1,095,798

Groundwater Monitoring Network and Public
Education on Water in Shelby County |
Scott Schoefernacker
\$350,000

Collierville Water Quality | Daniel Larsen
\$166,147

Town of Collierville Wellhead Protection and
Support Services | Brian Waldron
\$139,717

City of Bartlett Wellhead Protection and Support
Services | Brian Waldron
\$132,200

Asset Management Plan for Memphis Transit
Fleet | Sabyasachee Mishra
\$129,999

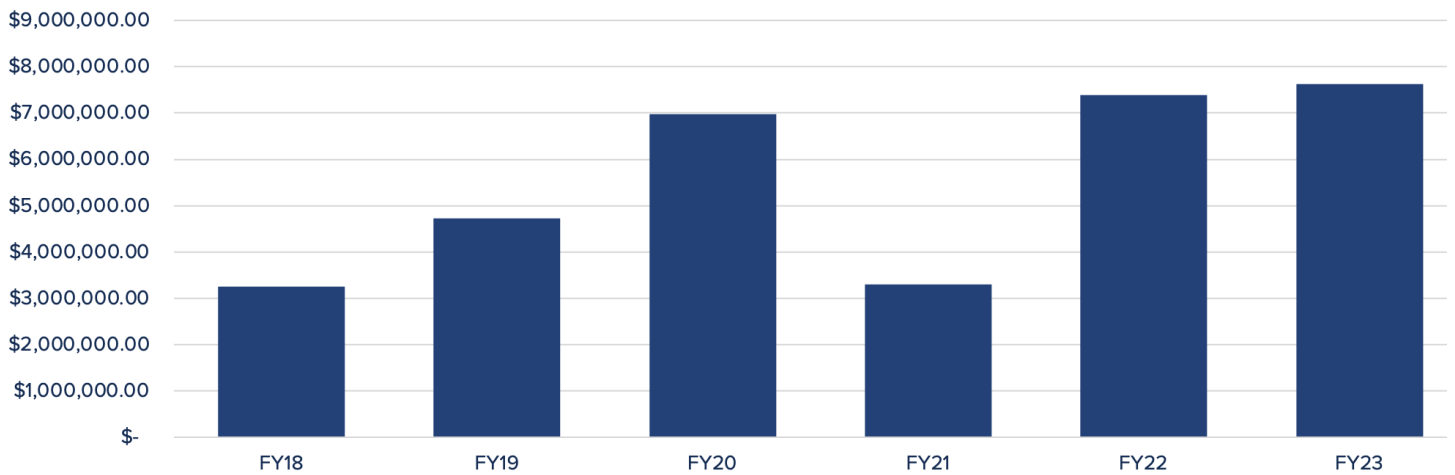
Millington Wellhead Protection, Education
Outreach and Water Quality | Brian Waldron
\$96,313

SCS Culinary Arts Program at Bolton High *(multi-
year award)* | Radesh Palakurthi
\$94,000

Investigating the Occurrence of Microplastic
Pollution within the Biosolids of Wastewater
Treatment Plants | Farhad Jazaei
\$84,444

DETAILED VIEW | CORPORATE & FOUNDATION AWARDS

*Note: \$\$ is obligated amount in FY



Top Corporate & Foundation Funding Sources for Research

| Funding Source | FY18 | FY19 | FY20 | FY21 | FY22 | FY23 |
|-------------------------------------|----------|-----------|-------------|-------------|-------------|-------------|
| Delta Health Alliance | | | | | | \$2,161,986 |
| Memphis and Shelby Crime Commission | | | \$525,000 | \$525,000 | \$525,000 | \$1,242,933 |
| Liquid IV | | | | | | \$540,349 |
| GS1 US Incorporated | | | | | | \$405,000 |
| FedEx Corporate Services | \$50,000 | \$199,000 | | | \$230,000 | \$397,084 |
| The Urban Child Institute | | \$271,119 | \$2,276,962 | \$1,214,095 | \$2,171,600 | \$350,000 |
| Conch Technologies | | \$656,160 | \$379,734 | \$227,272 | \$269,848 | \$212,583 |
| Trustees of Boston College | | | | | | \$200,000 |
| Hyundai Motor Company | | | | | \$157,200 | \$163,000 |
| American Institutes for Research | | | | | | \$143,437 |
| The Commonwealth Fund | | \$18,050 | | | | \$112,885 |
| Epicenter | | \$510,000 | | | | \$112,800 |
| Battelle | | \$15,870 | \$15,938 | \$57,888 | \$50,993 | \$104,175 |
| Kemmons Wilson Family Foundation | | | | | | \$103,000 |

Top 10 Corporate & Foundation Funded Projects By Fiscal Year

*Note: \$\$ is obligated amount in FY

FY22

Peer Power Institute | Barbara Bekis
\$945,839

Community Partnership to Enhance Kindergarten
Readiness Through Quality Caregiver/Parent-
Child Interactions | Loretta Rudd
\$553,876

Public Safety Institute (multi-year award) |
Abby Parrill-Baker
\$525,000

MLP/Memphis CHiLD (multi-year award) |
Kathryn Ramsey
\$436,870

School Mental Health Access to Resources
through Teletherapy (SMART) Research, Training,
and Treatment Center | Susan Elswick
\$356,875

Fostering Resilience and Well-being in the
Pediatric Trauma Population: Counseling
Interventions for an At-Risk Population |
Eraina Schauss
\$350,000

University of Memphis: Eradicating Systemic
Racism and Promoting Social Justice through
Academic Public Health | Marian Levy
\$273,060

Digital Inclusion in South City-Phase II |
Gregory Washington
\$250,757

Improving FedEx Supply Chain Demand
Forecasting in Turbulent Environments |
Huigang Liang
\$230,000

Master - MLGW GSR (multi-year award) |
Brian Waldron
\$227,348

FY23

Evaluation of Health and Educational
Interventions | Wesley James
\$2,161,986

Public Safety Institute (multi-year award) |
Gary Emmert
\$1,242,933

A Randomized, Placebo Controlled, Semi-Blind,
Crossover Study to Evaluate the Effects of
Two Novel Hydration Beverage Formulas on
Rehydration in Healthy Adults | Richard Bloomer
\$540,349

GS1 US Bar Code Test Lab | Kevin Berisso
\$405,000

Designing Machine Learning-based Solutions for
APT Detection | Kan Yang
\$397,084

MLP/Memphis CHiLD (multi-year award) |
Kathryn Ramsey
\$350,000

Master - MLGW GSR (multi-year award) |
Brian Waldron
\$212,583

PIRLS 2026 - Test Development | John Sabatini
\$200,000

Research on welding virtual predictive
technology to improve the robustness and
reliability of steel-based PBV | Ali Fatemi
\$163,000

AIR and University of Memphis AutoTutor Project
| Xiangen Hu
\$143,437

HIGH IMPACT SCHOLARS AT THE UOFM

| Author Name | Department | Scopus H-Index |
|------------------------|--|----------------|
| Bowlin, Gary L. | Biomedical Engineering | 56 |
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| Sutter, Tom | Biological Sciences | 54 |
| Lasiecka, Irena | Mathematical Sciences | 51 |
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| Huang, Xiaohua | Chemistry | 46 |
| Bollobas, Bela | Mathematical Sciences | 45 |
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| Mishra, Sanjay R. | Physics | 40 |
| Oller, D. Kimbrough | Communication Sciences and Disorders | 49 |
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Note on Citations: Citations in peer reviewed publications are a key metric for impact of research.

Note on H-index: H-index is an author-level metric that measures both productivity and citation impact of peer-reviewed scholarship. The h-index is defined as the maximum value of h such that the given author has published at least h papers that have each been cited at least h times. For example, an author with an h-index of 25 has at least 25 papers that were cited 25 times. The data for these h-index calculations was drawn from Scopus on 7/17/23.

Note on Reporting: All reported award amounts follow best practices at research institutions, are reported by report date and represent the entire amount reported. If, for example, you are awarded \$1M over three years and the report date reports the entire three year amount, then \$1M will be reported in the first year and no funds will be reported in subsequent years. If the report date on year one only shows the year one amount, then subsequent years will report their respective amounts. For questions, email research@memphis.edu.



UNIVERSITY OF MEMPHIS RESEARCH COUNCIL

The activities of the Division of Research & Innovation are guided by the UofM Research Council.

University of Memphis Research Council Membership Roster, 2022-2023

Dean's Representatives

Keri Brondo, *College of Arts and Sciences*
Jeremy Orosz, *College of Communication & Fine Arts*
Laura Casey, *College of Education*
Kurt Kraiger, *Fogelman College of Business
& Economics*
Stephanie Ivey, *Herff College of Engineering*
Cody Havard, *Kemmons Wilson School of Hospitality*
Jermain Johnson, *Lambuth Campus*
Alena Allen, *Law School*
Leanne Lefler, *Loewenberg College of Nursing*
Kim Oller, *School of Communication Sciences
& Disorders*
Brandt Pence, *School of Health Studies*
Hongmei Zhang, *School of Public Health*
Colin Chapell, *University College*
John Evans, *University Libraries*

Chairs/Centers of Excellence Representatives

Huigang Liang, *Business Information Technology*
Santosh Kumar, *Computer Science*
Chuck Langston, *Center for Earthquake Research
and Information*

At-Large Representatives

Alistair Windsor, *Institute for Intelligent Systems*
Brian Waldron, *CAESER*
Latrice Pichon, *School of Public Health*

Faculty Senate Representatives

Mihalis Gkolias, *Civil Engineering*
Amanda Young, *Communication & Film*
Reza Banai, *City and Regional Planning*
Jessica Amber Jennings, *Biomedical Engineering*
Eddie Jacobs, *Electrical/Comp Engineering*
Sanjay Mishra, *Physics*
Deborah Moncrieff, *School of Communication
Sciences & Disorders*

Faculty Representatives

Mehdi Amini, *Marketing & Supply Chain*
Gary Bowlin, *Biomedical Engineering*
Dipankar Dasgupta, *Computer Science*
Ali Fatemi, *Mechanical Engineering*
Rebecca Howard, *Art*
Chunrong Jia, *School of Public Health*
Satish Kedia, *School of Public Health*
Katherine Lambert-Pennington, *SUAPP*
Meghan McDevitt-Murphy, *Psychology*
Max Paquette, *School of Health Studies*
Donal Harris, *Marcus Orr Center*
Chrysanthe Preza, *Electrical/Comp Engineering*
Tom Sutter, *Biology*
Steve Zanskas, *CEPR*
Genae Strong, *Loewenberg College of Nursing*

THANK YOU

On behalf of the Division of Research and Innovation, we wish to thank the faculty and staff who make the research ecosystem at the University of Memphis a vibrant and dynamic place. The accomplishments of this past fiscal year and the next chapter of the University's growth are only possible because of your partnership and collaboration.

