



JSU | JACKSON
STATE
UNIVERSITY®
1877

Division of
Research &
Economic
Development

2022
YEAR IN REVIEW



Message from the Vice President for Research and Economic Development

I am delighted to share highlights of our successes and research accomplishments in this 2022 Fiscal Year report. Overall, Jackson State University celebrated a milestone when its total revenue hit approximately \$64.8 million in external funding.

A key element to our success has been a focus on interdisciplinary collaborations, which affirm that when we work together, we can achieve tremendous success. Our stellar faculty, staff, and students have risen to the occasion to align scholarly work efforts with the university's strategic plan for achieving research excellence.

Other contributing factors to our success included a rise in the number of funded projects and principal investigators, an uptick in innovation and technology transfer activities, increases in career and professional development opportunities, and the promotion of incentivized research. As we raise the bar, our partners and alliances also enthusiastically embrace our efforts in developing an environment centered around support, innovation, and entrepreneurial engagement. We are indeed grateful to all our stakeholders, corporate partners, and public and private funding sources for their ongoing support.

As we look ahead, we will continue to ride a wave of optimism by leveraging our key assets and nurturing existing relationships while encouraging other entities to join us for the future epic and transformative research discoveries. The combined strengths of our research personnel and alliances, academic programming, as well as accelerated technology and entrepreneurial engagements, will help



Joseph Whittaker, Ph.D.

drive our future progress and ensure more significant societal impacts, not only for the state of Mississippi but also nationally and globally.

To the continued success and elevation of JSU!

Respectfully,

Joseph A. Whittaker, Ph.D.

Table of Contents

Message from the Vice President for Research and Economic Development	3
Vision	5
Mission	5
JSU Elevate Strategic Plan:	
Goal 3: Research Excellence.....	6
Division Objectives.....	6
Sponsored Research Funding Trend:	
Research Awards 5-Year Trend	7
Research Expenditures.....	8
FY 2022 Awards from Funding Source	9
FY 2022 Awards by College/Division.....	10
Research by the Numbers.....	11
Research Award Highlights.....	12
▶ Mellon Foundation’s Support of the Margaret Walker Center	12
▶ PHIT Workforce Development Program	13
▶ TRIO Program.....	13-14
▶ Mississippi Teacher Residency Program	14-15
▶ Racial Trauma and Political Behaviors	15
▶ NSF CAREER Award to Study the Benefit of Vetiver Grass.....	16
▶ Research with Water-Soluble Iron Oxide Nanoparticles	17
▶ JSU Launches the Women’s Business Center.....	18
▶ The PACRI Program.....	19
▶ COVID CHAMPIONS	19-20
▶ TIGER MS-STEM	20
▶ NIH IPERT Train-the-Trainer Program.....	21
▶ JSU’s AVP for Research Voted Chair-Elect of AUTM.....	22
Other Highlights	23
List of Researchers Funded in FY 2022.....	24-26

VISION

The Division will serve as a leader in promoting excellence among all university scholars and be recognized as a model in developing multidisciplinary collaborations throughout the campus and throughout local, national and international communities.



MISSION

The Division has primary responsibility for advancing research and nurturing excellence, scholarly engagement, creative endeavors, and innovation at the University. The Division fulfills its mission by working proactively with faculty and staff to develop their external funding interests, identifying appropriate funding opportunities from public and private sources, and providing assistance with all of the elements of proposal development, submission and acceptance of contracts, grants and other awards. The Division encourages collaboration and partnerships through interdisciplinary research activities on campus and externally. The Division protects and manages the intellectual property of the University and its researchers. The Division manages and provides oversight of the financial resources of all grants and contracts. The Division also implements and ensures compliance with university, agency, state, and federal policies pertaining to grants and contracts related to sponsored activities.





JSU STRATEGIC PLAN - **ELEVATE**

GOAL 3: RESEARCH EXCELLENCE

Raise the level of research prominence by maintaining our “high research activity” status, increasing our research capabilities, impacting innovation and economic development, and providing opportunities for faculty and students to engage in collaborative research.

Objective 1: Invest in the research infrastructure to grow and support a culture of creativity and innovative research among faculty, staff, and students.

Objective 2: Facilitate the translation and transition of research from lab-to-market for the benefit of Mississippi, the nation, and the world.

Objective 3: Create and sustain an environment that supports and encourages high-impact undergraduate and graduate student research activities.

Objective 4: Increase visibility of research and innovation activities.

DIVISION STRATEGIC PLAN - ELEVATING RESEARCH EXCELLENCE

Objective 1: Improve JSU’s Research Infrastructure to grow and support a culture of research.

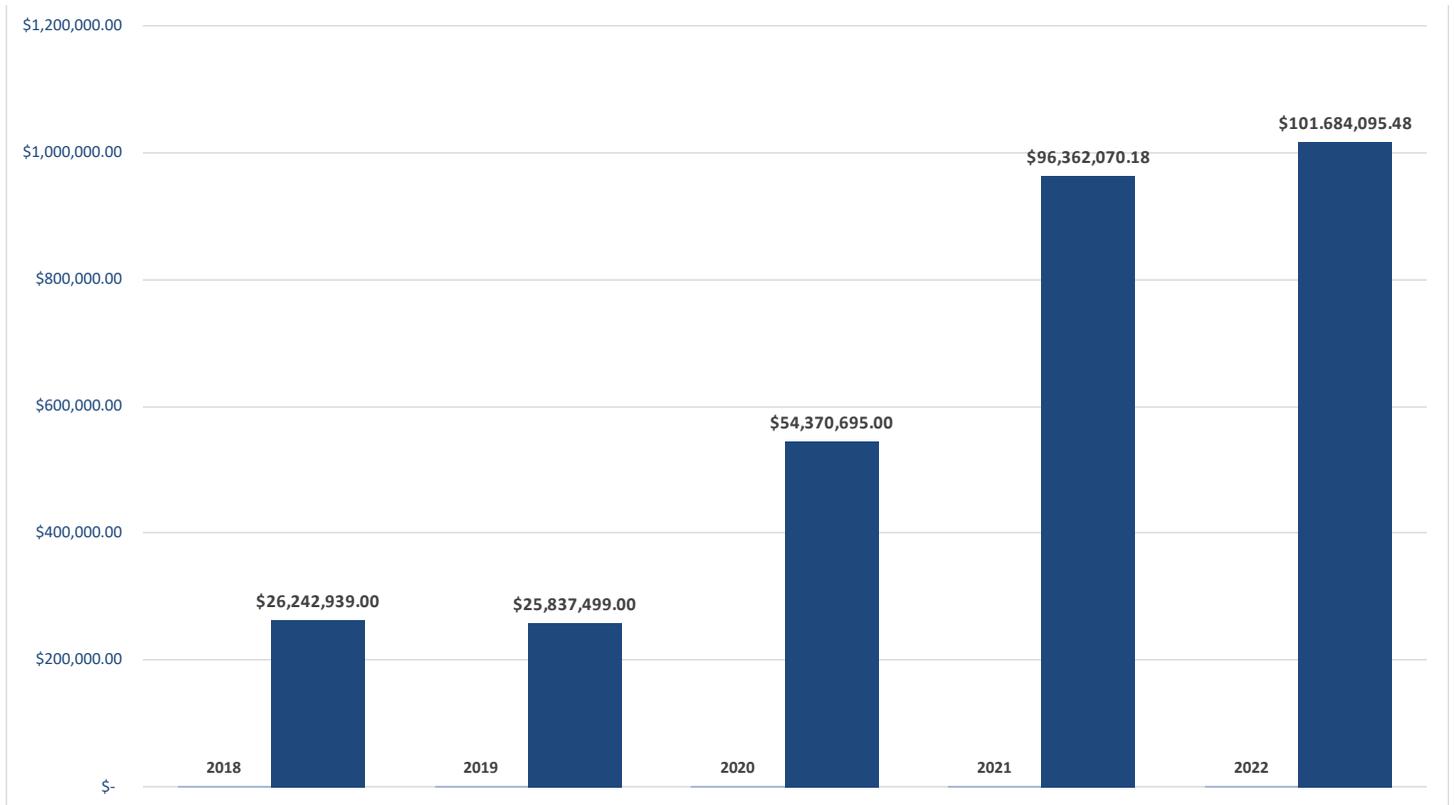
Objective 2: Accelerate Innovation, Technology Transfer, and Commercialization.

Objective 3: Strengthen Existing Research Partnerships; Expand the Number of Government, Industry, and Inter-Institutional Collaborations.

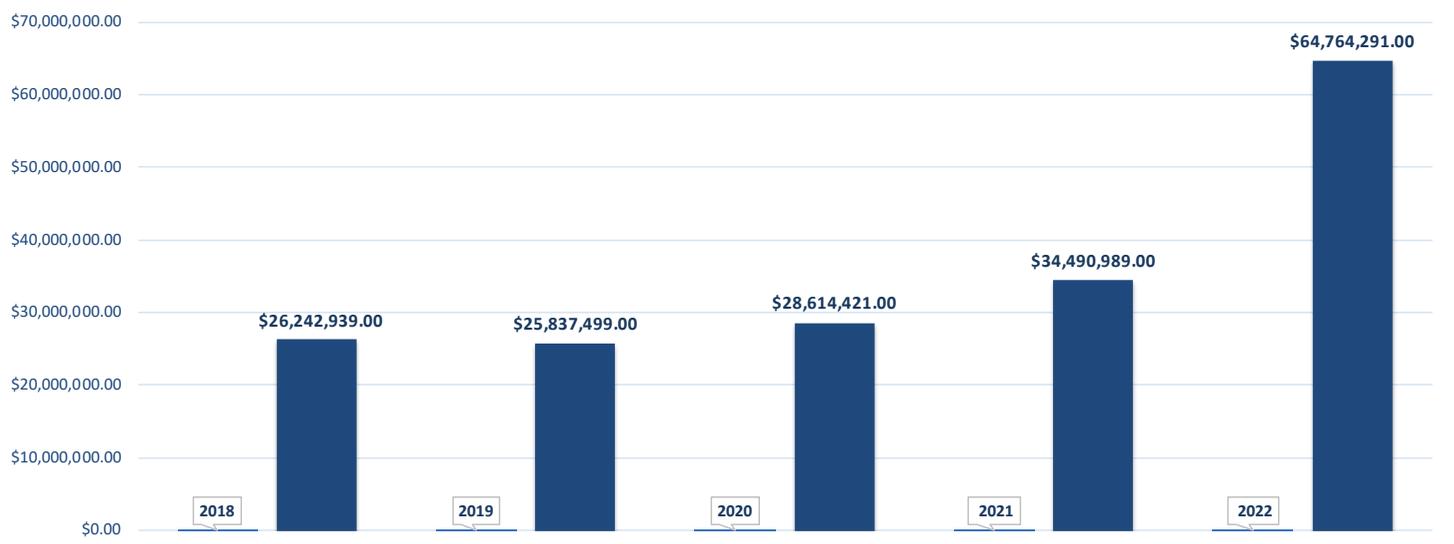
Objective 4: Increase the Profile of the JSU Research Enterprise Through Targeted Marketing.

SPONSORED RESEARCH FUNDING TREND

Research Awards 5-Year Trend *With HEERF



Research Awards 5-Year Trend *Without HEERF



RESEARCH EXPENDITURES

5-Year Trend



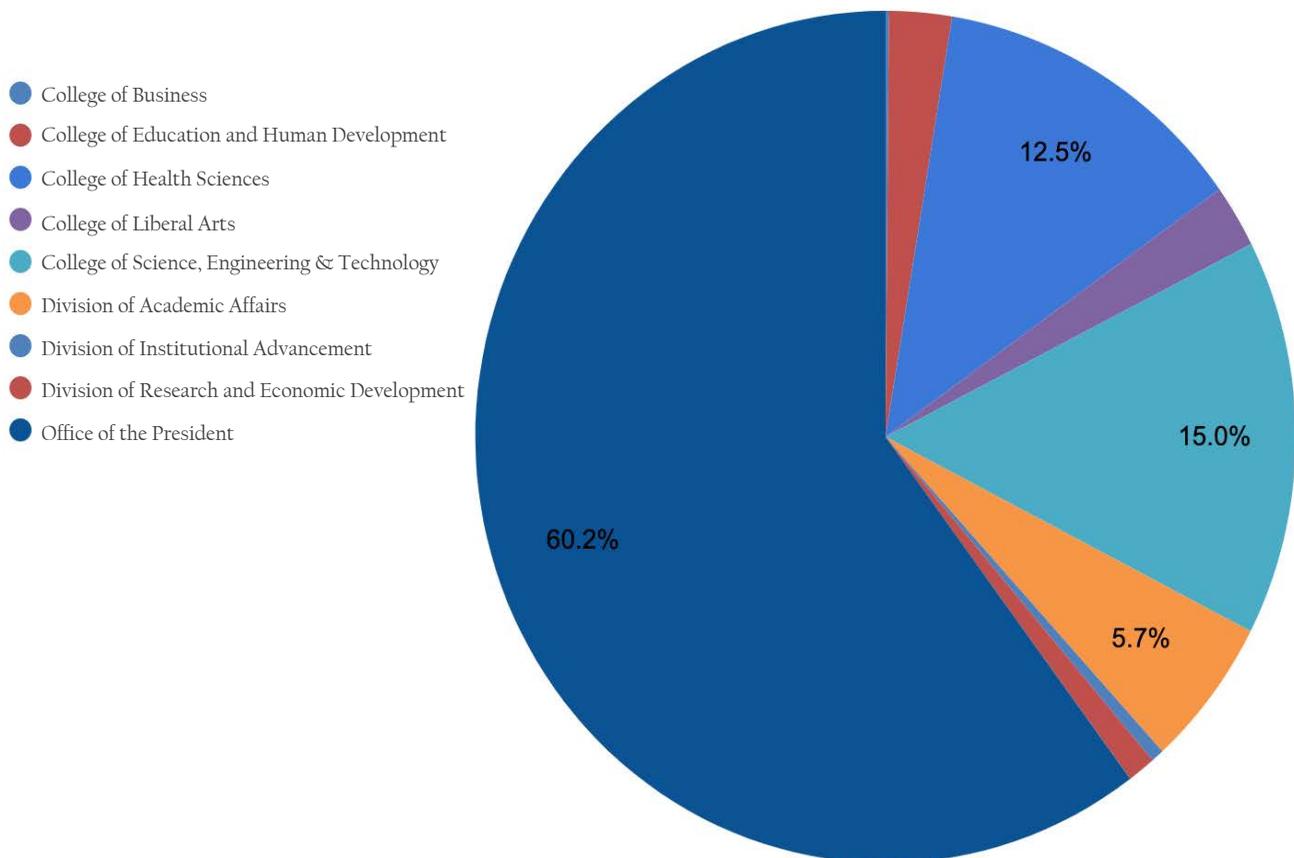
FY 2022 AWARDS BY FUNDING SOURCE

FUNDING SOURCE	NUMBER OF AWARDS	TOTAL
HEERF/CARES	1	\$36,919,804.00
National Library of Congress	1	\$104,286.55
National Aeronautics and Space Administration	2	\$175,109.00
National Museum of African American History and Culture	1	\$128,250.00
National Institutes of Health	14	\$5,007,167.00
National Science Foundation	18	\$6,316,124.00
U.S. Department of Defense	6	\$1,508,136.00
U.S. Department of Education	42	\$25,840,075.00
U.S. Department of Health and Human Services	1	\$9,999,938.00
U.S. Department of State	1	\$108,848.73
U.S. Small Business Administration	1	\$150,000.00
TOTAL FEDERAL	88	\$86,257,738.28
Total State of Mississippi Agencies	17	\$4,025,075.28
Total Private/Corporate Business and Industry	4	\$131,619.67
Total Foundations and Non-Profit Groups	31	\$3,678,308.50
Total Other State Governments	1	\$2,753,701.00
Total Other In-State Universities	18	\$1,920,020.76
Total Other Out-of-State Universities	22	\$2,200,632.00
Total Local Governments	1	\$716,999.99
Total Foreign Governments and Organizations	0	\$0
TOTAL STATE, PRIVATE, CORPORATE, OTHER, ETC. SOURCES	94	\$15,426,357.20
GRAND TOTAL of ALL EXTERNAL FUNDING	182	\$101,684,095.48

FY 2022 AWARDS BY COLLEGE/DIVISION

AWARDS BY COLLEGE/ DIVISION	NO. OF AWARDS	AMOUNT AWARDED
College of Business	3	\$135,296.73
College of Education and Human Development	10	\$2,506,493.99
College of Health Sciences	14	\$12,749,286.00
College of Liberal Arts	16	\$2,426,102.30
College of Science, Engineering & Technology	75	\$15,270,468.26
Division of Academic Affairs	16	\$5,767,043.99
Division of Institutional Advancement	4	\$516,235.24
Division of Research and Economic Development	8	\$1,122,810.67
Office of the President	36	\$ 61,190,358.30
GRAND TOTAL	182	\$ 101,684,095.48

FY 2022
Awards by Division and Colleges



RESEARCH BY THE NUMBERS

78
P.I.'s

\$64.8M
In Awards

1
10M+

7
\$500K-\$999K



22
New
P.I.'s

\$62M
In Research
Expenditures

10
1M+

182
Funded
Projects

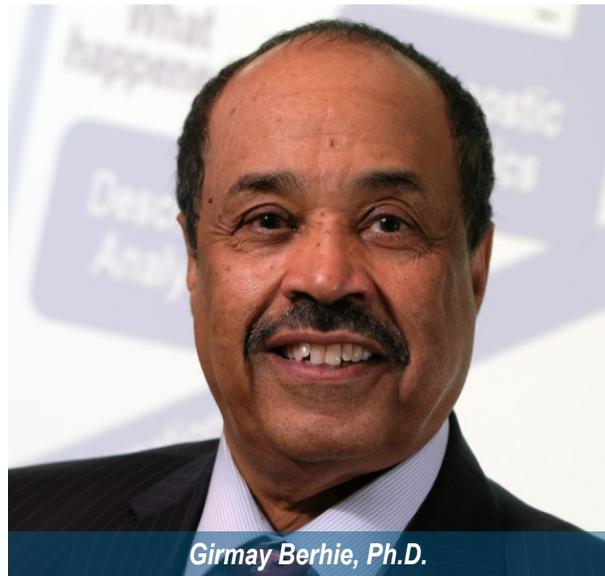
U.S. Health and Human Services awards JSU \$10M to create public health informatics curricula

Jackson State University's College of Health Sciences, a CEPH-accredited School of Public Health, was awarded a \$10 million cooperative grant from the U.S. Health and Human Services' Office of the National Coordinator (ONC) for Health Information Technology.

The Public Health Informatics and Technology (PHIT) Workforce Development Program will allow JSU to train public health professionals in collecting scientific data for improving clinical and medical decisions. JSU will offer certificate, undergraduate, and graduate degrees in various informatics and analytics fields throughout all colleges in an interdisciplinary partnership to bolster professional skills.

Dr. Girmay Berhie is the principal investigator of the PHIT program at JSU.

Jointly, faculty and staff will assist with developing curricula for online and in-person courses that will train students and professionals in bioinformatics, data science, data analytics, nursing informatics, business analytics, health informatics, and public health informatics. The grant will also allow



JSU to partner with Alcorn State University's Cora S. Balmat School of Nursing in Lorman, Mississippi, and develop curricula to train Alcorn students in nursing informatics.

Ultimately, the Public Health Informatics and Technology (PHIT) Workforce Development Program expects to build an expanded U.S. workforce capable of responding to future public health and biological threats.

Office of Student Success garners \$1.1M TRIO Educational Opportunity Center grant

Jackson State University has been awarded a third TRIO program grant for more than \$1.1 million over a five-year period by the U.S. Department of Education.

The TRIO Educational Opportunity Center (EOC) grant assists unemployed adults, low-wage workers, and returning high school and college students to enter or continue a program of postsecondary education. This is the first TRIO EOC grant awarded to Jackson State University. The program will serve

850 residents in seven Mississippi counties – Copiah, Hinds, Holmes, Scott, Simpson, Warren, and Yazoo – and 34 cities/towns located in these counties. As with all TRIO programs, priority will be given to low-income, first-generation, and disabled individuals.

Mitchell Shears, Ph.D., associate vice president for Student Success and executive director of Title III, leads TRIO EOC.

The program provides counseling and information on college admissions and services

to improve participants' financial and economic literacy. Among the comprehensive services are academic and personal counseling, tutoring, mentoring, career workshops, information on postsecondary education opportunities, student financial assistance, and help in completing applications for college admissions.

The EOC program will also prioritize assistance to military- or veteran-connected individuals and will work collaboratively with the two TRIO Student Support Services programs previously awarded to Jackson State in September 2020.



15 graduate students enroll in the first Mississippi Teacher Residency program as part of \$2M in grants from the state education department

Jackson State University's College of Education and Human Development (COEHD) welcomed 15 graduate students this fall into its first Mississippi Teacher Residency (MTR) program that received \$2,038,589 in grants from the Mississippi Department of Education (MDE). The MTR program aims to prepare educators for teaching in geographical areas experiencing critical shortages.

The grant covers tuition and expenses for individuals seeking a graduate degree in elementary and secondary education and Mississippi teacher certification. Additionally, graduate students participate in a blended, rigorous full-year internship paired with an experienced mentor-classroom teacher.

MTR will also include testing support, professional development, ongoing assessment, and a commitment to working in a

school or district serving low-income children, racial/ethnic minorities, and children with disabilities who have been disproportionately impacted by COVID-19.

MTR is one of the state's strategies to address the national teacher shortage. An MDE survey to assess educator shortages from Aug. 21 to Oct. 11, 2021, was sent to all public-school districts in the state. It showed 3,036 certified teacher vacancies in Mississippi.

The inaugural group of educators was acknowledged by COEHD, MDE, and the Jackson Public School District (JPS) for their commitment.

"We are excited for you. This is a great opportunity that you've taken advantage of. We want to see you through [by] providing the support you need and coaching and love you need so that you can be successful in this

program and go out and do what you were trained to do – teach all students,” said Jerri Haynes, Ed.D., dean of the COEHD, when she congratulated the signees.

JSU is in partnership with JPS. Each institution

is partnered with one or more school districts experiencing critical teacher shortages. The goal is to ensure all Mississippi students have access to licensed, diverse, and effective teachers.

JSU political science department receives \$509K NSF grant, will collaborate with other universities on racial trauma and political behaviors

Political Science Professor D’Andra Orey, Ph.D., has received a \$509,000 multi-year grant from the National Science Foundation.

Funds will be used to explore the intersection of race, exposure to trauma and politics on urban residents compared to individuals residing in rural areas. Partnering institutions include Mississippi Valley State University, the University of Michigan, and the University of Arkansas.

“The grant is intended to help facilitate mutually beneficial relationships and research between faculty and students by partnering with other schools,” Orey said. “Together, we intend to explore the mental duress caused through the heavy consumption of adverse media coverage coupled with the COVID-19 pandemic and exposure to the shooting of unarmed Black civilians.”

Current research reveals that exposure to traumatic events such as the 9/11 attacks or the Boston Marathon bombing challenges a person’s mental health. Still, research fails to distinguish among Blacks and whites or the impact of traumatic exposure on Black individuals’ political attitudes and behavior. The team argues that there is little, if any, literature that bridges mental health and the political leanings of Blacks, even though they tend to experience a unique cumulative trauma that likely influences their psyche.



Specifically, Orey and his team are interested in examining the exposure of COVID-19-related news in tandem with the shootings of unarmed Black civilians and its cumulative impact on Blacks’ mental health.

Through a comprehensive research plan, they will dissect how subjection to racially and non-racially traumatic events affects mental distress and the correlation between mental suffering as it relates to trauma and the concept of insulation. They also will examine how Blacks and whites manage trauma, among other contributing factors.

Khan get \$539K NSF CAREER Award to study benefits of vetiver grass

Dr. Sadik Khan, Ph.D., an assistant professor in the Department of Civil and Environmental Engineering at Jackson State University, has been awarded a CAREER Award of \$539,710 from the National Science Foundation (NSF) to advance the study and use of vetiver grass for preventing slopes from failing.

NSF provided the grant as part of the Faculty Early Career Development Program. CAREER is a foundation-wide activity that offers the most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education. Recipients also lead advances in the mission of their department or organization.

Through this award, Khan will lead a project titled “CAREER: Climate Resilient Landslide Repair on Expansive Soil Using Vetiver Grass.”

Vetiver grass keeps the soil in place with its high-strength roots that extract water from it, thus acting like a drain by keeping the soil dry. Khan said Yazoo Clay, for example, has cracks. “So, when rainfall occurs, water gets into those cracks, and the Yazoo Clay becomes really muddy. As a result, slopes with Yazoo Clay fail. We need to have a system that can take out that water.”

Vetiver grass appears to be an ideal solution in southern states and assists in repairing and maintaining slopes in highway embankments. It also strengthens levees and dams owned



Sadik Khan, Ph.D.

by city, state, or federal agencies. Currently, Khan is working on projects funded by the Mississippi Department of Transportation (MDOT) and MarTREC (a Tier 1 University Transportation Research Center of USDOT) to advance protocols for investigating landslides and adopting proactive techniques to prevent infrastructures from failing.

In general, the grant’s focus will be to understand the root-soil interaction of vetiver grass as a bio-inspired and climate-resilient solution for stabilizing shallow slope failures in expansive soils. Also, Khan wants to transform the slope-repair paradigm. Rather than being reactive to slope failures, he advocates a proactive approach that will lead to a safer and more resilient infrastructure.



\$475K grant could help chemo dosage, curb side effects

A \$475,000 grant from the National Science Foundation will further JSU's research with water-soluble iron oxide nanoparticles for delivering timed-released dosages of medicines such as chemotherapy while not destroying healthy cells and reducing side effects.

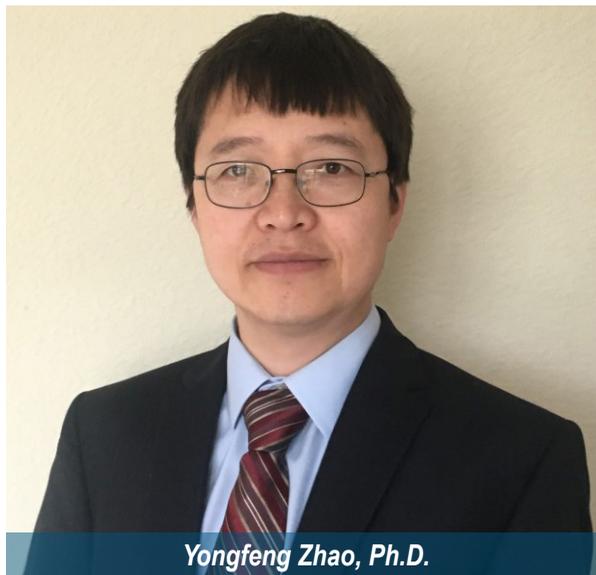
Dr. Yongfeng Zhao is an assistant professor in the Department of Chemistry, Physics, and Atmospheric Sciences at Jackson State University, with extensive research in cancer. He said he knows that many patients with advanced-stage cancer have a low chance of recovering, so his passion is to develop future technology that will improve efficacy and, ultimately, lead to a cure.

The principal investigator said his research does not include clinical tests; however, it does develop tools to study principles that can be potentially useful. These include developing a systematic approach for monitoring, delivering, and releasing life-saving treatments.

Zhao said that to carry out the project's mission in the College of Science, Engineering, and Technology, "the goal is to develop new methods for the synthesis of water-soluble 'extremely small iron oxide nanoparticles' (ESIONPs)." Along with that, his other goal is to gain a "fundamental understanding of relaxivity of ESIONPs interaction with bioactive molecules."

Basically, by increasing relaxivity of specific iron oxide nanoparticles, researchers can develop a better view of molecular targets inside the body by using magnetic resonance images (MRI). MRI is considered one of the most powerful imaging technologies in hospitals.

MRI is ideal for evaluating soft tissue (the brain, heart, muscles), unlike an X-ray, which involves exposure to radiation when examining bones. So, an MRI is much safer than X-rays,



Yongfeng Zhao, Ph.D.

Zhao indicated.

"MRIs provide images with excellent anatomical details, especially of soft tissue in a noninvasive and real-time monitoring manner," Zhao said.

"Most importantly, there is unlimited tissue penetration. We will explore a stepwise growth procedure to prepare water-soluble ESIONPs with controlled sizes for high-MRI performance. In addition, the surfaces of ESIONPs will be modified to carry bioactive molecules such as chemo drugs. Then, the capability of ESIONPs to load and release bioactive molecules will be studied. Next, we will investigate the change of the MRI signal for ESIONPs as they interact with bioactive molecules."

"This research provides an excellent opportunity and training for our undergraduate and graduate students seeking careers in the medical and pharmaceutical fields. Our research project is highly interdisciplinary and involves chemistry and biomedicine to study how drugs interact with nanoparticles and their potential use for clinical drug delivery."

JSU Launches Women's Business Center

The Women's Business Center @JSU provides services to those seeking federal contract dollars as women-owned small businesses (WOSB) and economically-disadvantaged women-owned small businesses (EDWOSB).

“The focus of the WBC @JSU is to promote economic growth in Hinds County by providing business services to women seeking federal contracting dollars, as well as preparing women businesses to engage in technology transfer and commercialization,” said Almesha L. Campbell, Ph.D., vice president for the Division of Research and Economic Development. “There are a lot of opportunities for minority businesses to engage in federal contracting, and our goal is to help prepare women businesses to be competitive in the space and to understand how to commercialize their ideas. This will ultimately help with strengthening Mississippi’s economy.”

The center offers confidential one-on-one counseling, low-cost training, networking, free workshops, technical assistance and mentoring to women entrepreneurs on numerous business development topics. Assistance also includes providing information about business startup, financial reporting, and procurement.

“The Women’s Business Center @JSU is a



Almesha Campbell, Ph.D.

necessity,” Sydney Brown, director of The WBC @JSU, said. “We need to support the boundless potential of women-owned businesses in the state of Mississippi. This center will encourage the participation of women entrepreneurs in the local, state, national and global economy, and those who have been under-served or lacked access to the free enterprise marketplace.”



Princeton partners with UNCF and Jackson State University to expand research and innovation

Princeton University is partnering with UNCF (United Negro College Fund), Jackson State University, and four other historically Black colleges and universities to launch a groundbreaking program designed to enable research collaborations between Princeton faculty and their peers at HBCUs.

Princeton researchers and researchers from JSU, Howard University, Prairie View A&M University (PVAMU), Spelman College, and the University of Maryland Eastern Shore (UMES) will co-lead research projects. Princeton University will fund these projects through its new Princeton Alliance for Collaborative Research and Innovation (PACRI).

“Participation in the alliance will likely afford JSU and other HBCUs the opportunities to

diversify further and expand their respective research capacities in STEM and non-STEM disciplines,” said Jackson State Vice President for Research and Economic Development, Joseph A. Whittaker, Ph.D. “I envision that the PACRI collaborations will be uniquely situated not only to solve challenging research problems but also to drive novel and emergent methodologies, as well as technologies and intellectual property that will serve as foundations to build and advance start-ups and inclusive economic development.”

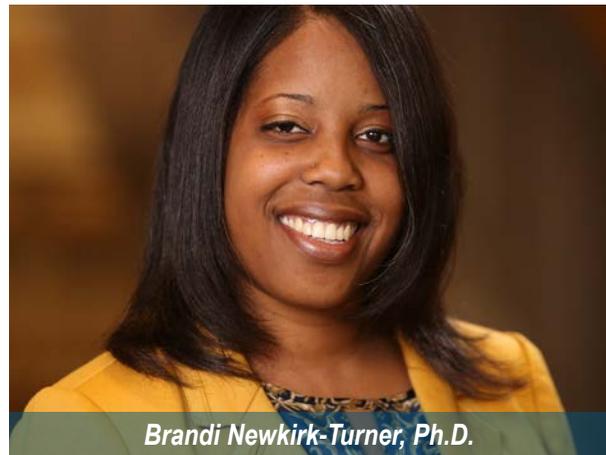
The initiative’s aim is to fund multiple collaborative projects each year between Princeton and each partnering institution. Two JSU faculty members, Dr. Gloria Billingsley and Dr. Nihar Pradhan were successful in their submission for Year 1 of the PACRI program.

JSU and other COVID Champions promote health literacy in at-risk Vicksburg

Jackson State University, the city of Vicksburg and Jackson-Hinds Comprehensive Health collaborated to secure a \$3 million grant from the U.S. Department of Health and Human Services Office of Minority Health. The funds were part of a new, two-year initiative designed to advance health literacy and enhance equitable community responses to COVID-19 while identifying and implementing best practices for improving health literacy in Vicksburg.

Dr. Brandi Newkirk-Turner, associate provost, has led the effort.

Through project COVID-19 Health literacy, Accessibility, Management, Prevention, Intervention, Outcomes, and New Skills (CHAMPIONS) for equitable communities, the three entities implemented a health literacy



Brandi Newkirk-Turner, Ph.D.

intervention program specifically targeting Vicksburg’s diverse community.

Many of the project’s activities were implemented at Jackson-Hinds, the largest community health center in Central Mississippi.

Vicksburg met the Health Resources and Services Administration's definition of rural, with a population of 21,653. According to the U.S. Census, 67 percent are Black/African American, and 3 percent are Hispanic/Latino. Additionally, 30.7 percent of Vicksburg

residents met the Census Bureau's definition of poverty, and 15 percent of residents were without health insurance. Statistically, those in the area qualified to benefit from the CHAMPIONS project.

TIGER- MS-STEM program helps underserved, minority undergraduates to excel academically

The TIGER-MS-STEM program at Jackson State continues to prepare underserved minority students for success by helping undergraduates develop a solid foundation in gatekeeper courses such as algebra, chemistry, and physics.

Formally called the "Taking the Initiative to Grow Enrollment and Retention of Minority Students (MS) in STEM" (TIGER-MS-STEM), the program zeroes in on recruitment and retention outcomes. Implemented in fall of 2019, it also aims to foster critical thinking and scientific problem-solving. This is important because statistics reveal that 75 percent of JSU's students are products of failing, under-resourced K-12 schools in Mississippi counties and neighborhoods with high poverty rates.

Consequently, the TIGER-MS-STEM program was designed to deal with the resulting academic deficiencies. It aims to (1) promote STEM learning and diversity; (2) heighten the sense of belonging; (3) bolster mentorship, peer support, and skills development; and (4) build confidence. Without these elements, hopefuls could become hopeless and choose to transfer to non-STEM majors or exit the university altogether.

To enrich students' academic performance, the Department of Chemistry, Physics, and Atmospheric Sciences in the College of Science, Engineering, and Technology offers many gatekeeper courses such as algebra, chemistry, and physics.

For faculty, targeted professional development and ongoing collaborations have been essential to enhance evidence- and inquiry-based pedagogies. To further maximize student success, STEM course curricula required a redesign.

Meanwhile, the TIGER-MS-STEM program measures performance each year. It evaluates professional development and fellowships; examines faculty and industry partnerships and research; reviews undergraduate and graduate training and conducts high-quality assessments to demonstrate student learning. Furthermore, it evaluates equipment and supplies and provides hands-on guidance.

Despite some interruptions due to COVID-19, the TIGER-MS-STEM program recorded gainful outcomes during a time when students switched to online courses and endured curtailed resources. Nevertheless, they maintained their STEM aspirations to contribute to their professions, academic programs, and research.



As an NIH IPERT trainer, JSU teaches the importance of research integrity and ethics

Funding from NIH's National Institute of General Medical Sciences (NIGMS) allows Jackson State University to operate a program to help foster research integrity and ethics. Administered by JSU, the Innovative Program to Enhance Research Training (IPERT) teaches any institution or individual throughout the country to adopt ethical practices in behavioral and biomedical research.

“There’s a global issue with research integrity and ethics. There are instances when papers get withdrawn or recalled due to falsified data or manipulated images – whether unintentional or intentional,” said Joseph A. Whittaker, Ph.D., vice president of JSU’s Division of Research and Economic Development and principal investigator of the grant.

Whittaker said the failure to abide by principled practices could have major implications for a researcher or an institution. To address these prevalent issues, he noted that medical journals now have algorithms to determine if images, for example, are originals or modified.

As part of the National Institutes of Health (NIH), NIGMS has worked for many years to assist in training the next generation of scientists. JSU is contributing to this federal effort by offering a train-the-trainer program to maximize the success and scientific integrity in research.

Whittaker wants researchers to understand the high crimes in science – falsification, fabrication, and plagiarism. He cautions that while other missteps may be “misdemeanors,” they are still a violation that could land someone in deep trouble. Such actions would result in losing funding and shining a light on potentially problematic areas of that researcher or institution.



Joseph Whittaker, Ph.D.

“Research becomes skewed when you start manipulating data, falsifying data, or leaving out data,” Whittaker said. “Due to this nationwide problem, JSU is training people so they, ultimately, can go back to their institutions to implement the program. It teaches them good practices and helps people recognize bad conduct,” he added.

Aside from JSU, these are a few of the many other institutions that have participated in the IPERT training program:

- ▶ Harvard Medical School
- ▶ Albert Einstein College of Medicine
- ▶ Northwestern University
- ▶ NYU Grossman School of Medicine
- ▶ University of Texas Medical Branch
- ▶ Indiana University School of Medicine
- ▶ Children’s Hospital Los Angeles
- ▶ University of Maryland, Baltimore
- ▶ Yale School of Medicine
- ▶ Vanderbilt University
- ▶ Brown University
- ▶ Children’s Hospital of Philadelphia
- ▶ Cold Springs Harbor Laboratory

To learn more about the program, please email info@emergingscientists.com or go to www.emergingscientists.com

JSU assistant vice president for Research and Economic Development voted chair-elect of AUTM

AUTM, a global nonprofit whose members support the commercialization of academic research, welcomed Almesha L. Campbell, Ph.D., as AUTM chair-elect. She's the first black person and the first from an HBCU to serve on the board. Campbell is assistant vice president for Research and Economic Development at Jackson State University and previously served on the AUTM Equity, Diversity, and Inclusion Committee, as well as the Women Inventors Special Interest Group, before her election to the AUTM Board.

“Dr. Almesha Campbell is an outstanding leader and will do well in this new role as chair-elect for AUTM,” said Joseph Whittaker, Ph.D., JSU vice president for Research and Economic Development. “Her election to such a position is not surprising, considering her expertise, knowledge base, and presence in the academic tech transfer space. This is another example of how JSU faculty and staff can elevate the JSU brand through hard work and effective engagement with the industry, stakeholders, and the community. We thank Dr. Campbell for her continued service in this critical area.”

Campbell spearheads innovation and tech transfer at JSU and contributes significantly to activities in federal relations, as well as cultivating corporate partnerships. She assists in overseeing grants and contracts, sponsored programs, and research compliance. Additionally, she serves as principal investigator for the JSU I-Corps Site program, which trains teams of faculty and students to commercialize their ideas. Her goal is to challenge the lack of representation of minorities in research and development and to elevate the opportunities for JSU faculty and students to participate in a diversified tech transfer environment. Campbell's tenure as AUTM chair will begin in February 2023.



“I am honored to have been elected by the board to serve AUTM in this capacity. I have been a member of the organization for over ten years and have witnessed the evolution of the board and the organization to become more inclusive. I expect to continue to build on the stellar accomplishments of my predecessors to ensure AUTM's future success and sustainability,” Campbell said.

AUTM is a nonprofit leader in efforts to educate, promote and inspire professionals to support the development of academic research that changes the world and drives innovation forward. Its community comprises more than 3,000 members who work in more than 800 universities, research centers, hospitals, businesses, and government organizations around the globe.

OTHER HIGHLIGHTS

- ▶ The W. K. Kellogg Foundation awarded JSU \$700,000 to develop a Digital Tele-Medicine Lab [Incubation Center Hub].
- ▶ The National Science Foundation awarded JSU approximately \$1M for its “Collaborative Research: Improving Access to Career and Educational Development for Talented, Low-Income Students through the Flexible Internships-Research Education Model.”
- ▶ The Mississippi Governor’s Office awarded JSU \$2.8 million to help improve health in Mississippi by creating a pipeline to the public health profession.
- ▶ Two JSU faculty inventors were awarded \$150,000 each through the Mississippi SMART Accelerate Act to support the development of their emerging technologies.
- ▶ The National Science Foundation awarded JSU \$300,000 to conduct customer discovery on a pathway to commercialization at Historically Black Colleges and Universities.
- ▶ JSU recently joined the University-Industry Demonstration Partnership (UIDP), providing it strategic access to corporate and federal entities.
- ▶ JSU Vice President for Research named on the FEMA Regional Advisory Council and the FEMA Regional Integrated Steering Committee.
- ▶ JSU’s research and innovation activities have been featured in Forbes (for the Culture), The Plug, Triple Pundit, The Chronicle, Tech Transfer Central, and other national publications.

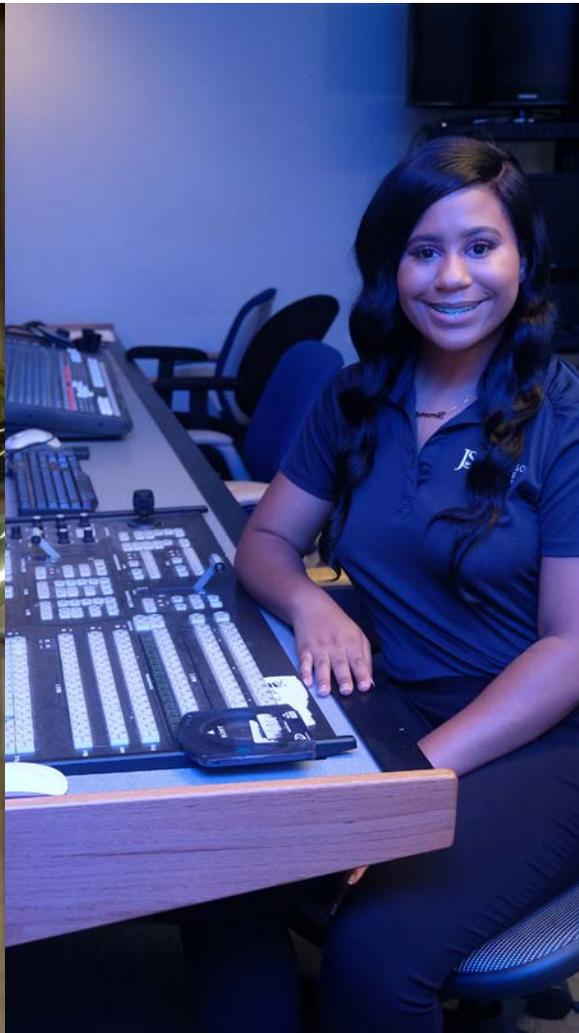


LIST OF RESEARCHERS FUNDED IN FY 2022

NAME	No. of AWARDS	AMT. of AWARDS
Hudson, Thomas	1	\$36,919,804.00
Shears, Mitchell	37	\$24,664,452.00
Berhie, Girmay	4	\$11,045,206.00
Newkirk-Turner, Brandi	5	\$ 4,075,660.99
Tchounwou, Paul	4	\$ 3,009,784.00
Ogungbe, Victor	6	\$ 2,364,610.00
Opara-Nadi, LaKeshia	2	\$ 2,070,589.54
Ray, Paresh	5	\$ 1,554,997.00
Payton, Marinelle	6	\$ 1,368,239.00
Han, Fengxiang	2	\$ 1,000,000.00
Dai, Qilin	4	\$ 990,975.00
Jackson, Jacqueline	2	\$ 974,604.00
Luckett, Robert	3	\$ 781,750.00
Whalin, Robert	5	\$ 712,700.00
Wen, Kejun	4	\$ 709,694.76
Campbell, Almesha	6	\$ 687,478.67
Hayes-Anthony, Elayne	3	\$ 601,234.00
Orey, Byron	1	\$ 509,767.00
Leszczynski, Jerzy	4	\$ 469,301.00
Turner, Timothy	1	\$ 465,398.00
Fadavi, Mehri	2	\$ 463,820.00
Whittaker, Joseph	2	\$ 435,332.00
McNeal, Earnestine	2	\$ 402,666.30
Dent, Deborah	1	\$ 396,250.00
Wright, Angela	2	\$ 376,041.14
Thompson, Henry	2	\$ 357,888.40
Thoma, Brent	1	\$ 314,421.00
Brown-Gordon, Loria	1	\$ 261,888.00
Zhao, Youngfeng	1	\$ 254,286.00
Yang, Shan	2	\$ 247,350.00
Kafoury, Ramzi	2	\$ 240,054.00
Bennett, Kanasha	1	\$201,792.00

NAME	No. of AWARDS	AMT. of AWARDS
Mosley, Alisa	1	\$200,000.00
Giles, Frank	1	\$199,955.00
Ali, Kamal	4	\$181,249.50
Smith, Dereka Carroll	2	\$175,109.00
McNeil, ConSandra	3	\$167,379.00
Pradhan, Nihar	3	\$153,638.00
Zhou, Jiange	1	\$150,000.00
Dean, Anthony	1	\$144,234.00
Jones, Samuel	2	\$140,000.00
Liu, Yiming	1	\$137,230.00
Wilson, Carlos	2	\$125,550.53
Dida, Lydia	1	\$108,848.73
Opara-Nadi, Lakeisha	1	\$104,286.55
Mangum, Maurice	1	\$ 98,790.00
Yan, Yonghua	2	\$ 83,756.00
Hill, Glake	1	\$ 79,782.00
Tu, Shuang	1	\$ 75,000.00
Shahbazyan, Tigran	1	\$ 71,626.00
Mendy, Vincent	1	\$ 59,381.00
Murphy, Jessica	1	\$ 50,000.00
Khan, Mohammad	1	\$ 50,000.00
Meghanathan, Natarajan	2	\$ 49,000.00
Burnett, Shirley	1	\$ 45,000.00
White, Loren	2	\$ 43,572.00
Yin, Jianjun	1	\$ 40,016.00
Manzoul, Mahmoud	1	\$ 39,969.00
Shaw-Ridley, Mary	2	\$ 38,500.00
Herbert, Berneece	1	\$ 35,656.00
Smith, Gloria	2	\$ 31,804.37
Ikem, Fidelis	2	\$ 26,448.00
Wilson, Locord	1	\$ 25,000.00

NAME	No. of AWARDS	AMT. of AWARDS
McDaniels, Preselfanie	1	\$ 25,000.00
Tuluri, Francis	1	\$ 21,886.00
Ahmad, Hafiz Anwar	1	\$ 20,000.00
Little, Roderick	1	\$ 13,500.00
Jenkins, Brenda	1	\$10,000.00
Noubissi, Felicite	1	\$7,500.00
Kersen, Thomas	1	\$5,750.00
Walters, Wilbur	1	\$5,000.00
Smith, Shanna	1	\$5,000.00
Crump, Helen	1	\$4,500.00
Wang, Ning Ning	1	\$4,000.00
Caesar, Tiffany	1	\$2,000.00
Cosey, Felicia	1	\$1,145.00







Division of Research & Economic Development

JSU Box 17057
6th Floor Administration Tower
1400 John R. Lynch Street
Jackson, MS 39217
Tel: 601-979-2931
JSUMS.EDU/RESEARCH