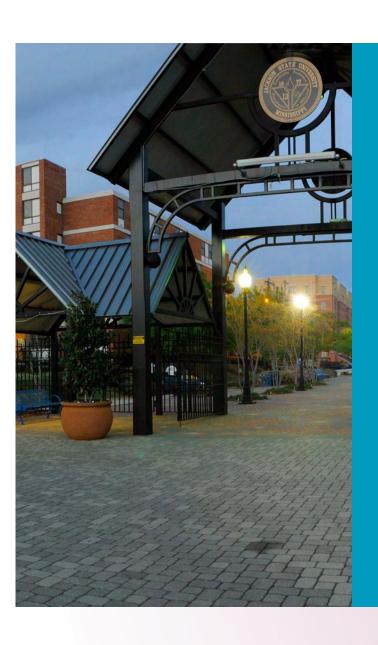


NURTURING EXCELLENCE, Scholarly Engagement, CREATIVE ENDEAVORS, and Innovation

DIVISION OF RESEARCH & FEDERAL RELATIONS

ISU JACKSON STATE



### Vision and Mission

### 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.

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### FUNDING SOURCES

FY 2014 - 2015

FUNDING SOURCES	COUNT	TOTAL
U.S. Department of Defense	19	\$2,870,087.66
U.S. Department of Education	6	\$6,925,706.00
U.S. Nuclear Regulatory Commission	2	\$289,726.00
U.S. Department of Health and Human Services	1	\$299,319.00
U.S. Department of Homeland Security	2	\$839,000.00
U.S. Small Business Administration	1	\$132,692.00
U.S. Department of Transportation	9	\$429,500.00
National Aeronautics & Space Administration	5	\$147,380.00
National Oceanic & Atmospheric Administration	3	\$438,737.00
National Institutes of Health	31	\$9,891,413.00
National Science Foundation	24	\$4,896,526.00
TOTAL FEDERAL	103	\$27,160,086.66
TOTAL STATE AGENCIES	21	\$1,142,700.56
TOTAL FOUNDATIONS/CORPORATIONS	12	\$1,163,842.00
TOTAL NON-PROFIT AGENCIES	0	\$0
GRAND TOTAL	136	\$29,466,629.22

### FUNDING DISTRIBUTION

FY 2014- 2015

COLLEGE/DIVISION	COUNT	TOTAL
Office of the President	2	\$6,283,804.00
Division of Academic and Student Affairs	6	\$624,131.00
Division of Business and Finance	1	\$129,225.00
Division of Institutional Advancement	3	\$585,263.00
Division of Research and Federal Relations	2	\$776,694.00
Division of Information Technology	1	\$1,500,000.00
College of Business	1	\$132,692.00
College of Education & Human Development	11	\$999,683.00
College of Liberal Arts	11	\$772,221.22
College of Public Service	18	\$3,456,533.00
College of Science, Engineering & Technology	80	\$14,206,383.00
GRAND TOTAL	136	\$29,466,629.22

# Jackson State University and the United States Army Corps of Engineers Partner to Develop 'Research Recognized Nationally'

A festive atmosphere pervaded the Mississippi e-Center @JSU as Jackson State University faculty, staff and administrators celebrated the "kickoff meeting" with members of the Engineer Research and Development Center (ERDC) of the U.S. Army Corps of Engineers. The gathering, which included a tour of offices, work spaces, classrooms and other facilities at the e-Center, was "to kick off the cooperative research agreement between Jackson State and ERDC," said Dr. Deborah F. Dent, JSU's Vice President for the Division of Information Technology.

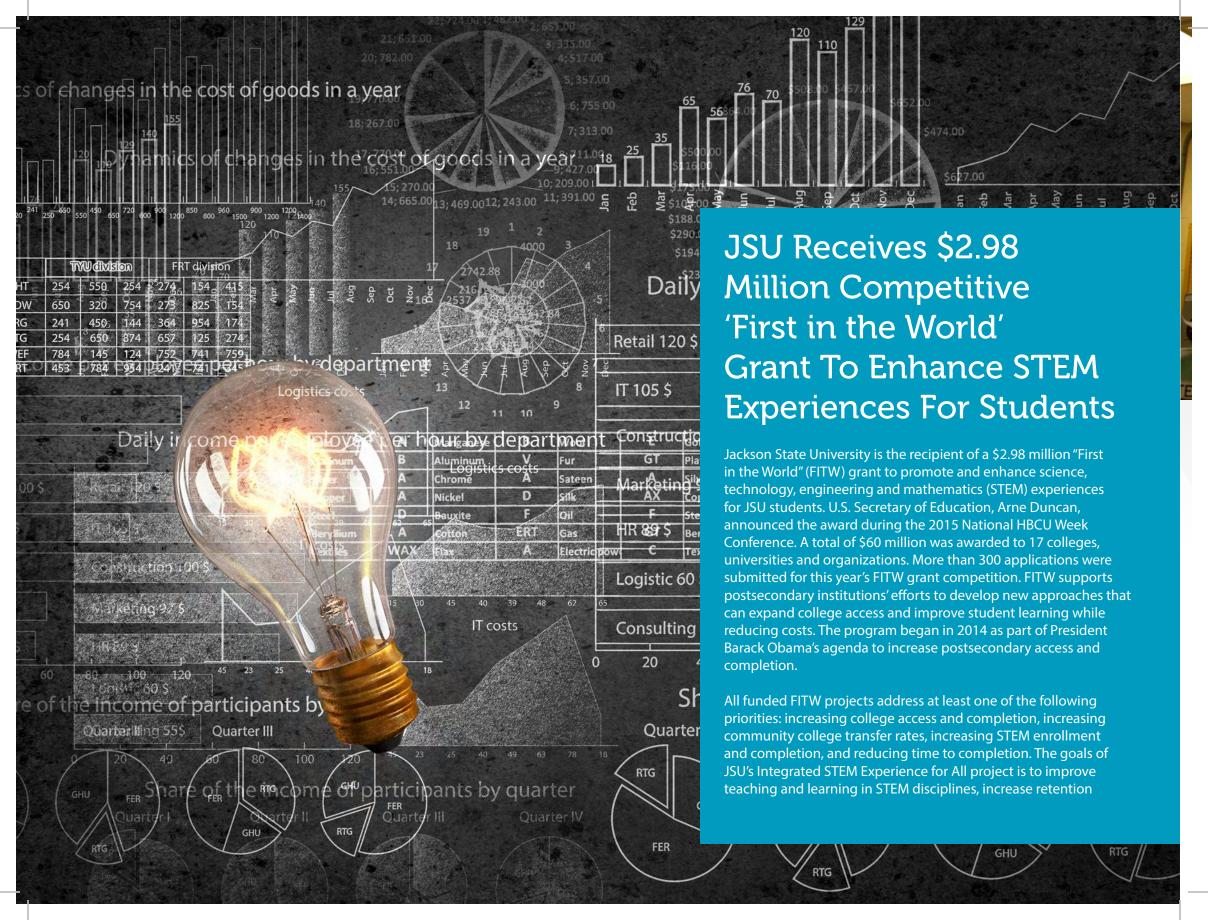
Joint areas of research that will be explored include cyber warfare, cyber defense, high-tech computational research and analysis, development of technical measurement involving high-performance computing, energy management and even development of Internet apps, Dent said.

Talks to establish the partnership started about a year and a half ago, said Dr. Reed L. Mosher, director of the Corps' Vicksburg Information Technology Laboratory. ERDC will work with JSU students and faculty to develop "research recognized nationally," according to Dr. Mosher.

"The cyber infrastructure of the building is quite strong," said Dr. William McHenry, e-Center executive director, who led the tour of the facility. It's able to handle increased computational power with the very latest in state-of-the-art software and hardware.

"This is a tremendous opportunity for us here at JSU," said College of Science, Engineering and Technology (CSET) Dean Dr. Richard Alo.

Jackson State is assuming a leadership position in the field of computational and data enabled science and engineering as one of the first universities in the nation to offer a doctoral degree in Big Data. Recently, Dr. Gordon Skelton was named director of Data Sciences, Engineering and Intelligence, which brings together CSET's resources in data sciences, engineering and intelligence. Skelton, who has directed CSET's Center for Defense Integrated Data located at the Mississippi eCenter at JSU since 2005, was among the scientists who gave a talk to the group about JSU's accomplishments in the field of cyber warfare and cyber defense.







and graduation rates, increase STEM literacy and stimulate enthusiasm about STEM education at JSU. Over the next four years, teams of JSU students and faculty will engage in multidisciplinary research, STEM workshops, course redesign and other activities accelerating discovery and innovation. A total of 160 faculty and 1,280 students from various disciplines will be impacted.

"This grant provides Jackson State University a unique opportunity to continue the great work we've begun in engaging more of our students in science, technology, engineering and mathematics," said JSU President Carolyn W. Meyers, a mechanical engineer.

"This project is an extension of our efforts in cyber learning and quality and innovation in effective teaching. JSU is uniquely poised to lead in these areas because of our commitment to addressing challenges facing underrepresented students in all disciplines, especially STEM fields."

JSU has been designated as an Apple Distinguished School for 2013-2015 for innovation, leadership and educational excellence. Its iPad initiative provides iPads to all first-time, full-time freshmen, and the INNOVATE and CREATE centers allow faculty and students to engage in formal and informal digital learning opportunities. The FITW grant will help JSU stimulate student creativity and inquiry across disciplines, said Dr. Loretta Moore, vice president for research and federal relations.

"While the highest concentration of majors who participate in undergraduate research come from STEM, this project will afford students in all disciplines an opportunity to participate in research and other collaborative projects with faculty leads," Moore said.

"This project aims to improve teaching and learning and student engagement in multidisciplinary research, innovation, education and engagement experiences in STEM." This award represents the culmination of months of work by JSU's leadership, senior personnel and research development officers. The leadership team and Steering Committee consist of President Meyers, Dr. Moore and Dr. Evelyn Leggette, provost and senior vice president for Academic and Student Affairs. Dr. Paul Tchounwou, associate dean of the College of Science, Engineering and Technology, served as principal investigator and project director.

Congressman Bennie Thompson (Mississippi's 2nd Congressional District) said he's thrilled that JSU received the grant to enhance STEM experiences. "This project will work to improve both teaching and learning in STEM disciplines and transform the institutional culture at JSU to stimulate enthusiasm about science, technology, engineering and mathematics. I am so very proud that JSU was one of only 17 institutions nationwide to receive the grant."

Research Excellence

Computational and Data Enabled Science and Engineering



- RCMI Translational Research Network (DTCC) -\$3,093,628 (NIH)
- EPSCOR \$321,340 (NSF)
- Probing Materials for Efficient Hydrogen Storage and Search for Materials -\$299,998 (Office of Naval Research)
- Development of the Sensor Environment Imaging Instrument (SENSEI) -\$275,000 (NSF)
- MRI Development of Advanced Visualization Instrumentation for the Collaborative Exploration of Big Data - \$219,273 (NSF)

Cyber Security, Cyber Warfare, Maritime Port Security, and National Intelligence



- Strategic Cyber Science
   Warfare Security Application
   Development and High
   Performance Computing
   Research \$6,000,000 (ERDC-Army)
- UM/JSU Intelligence Consortium - \$195,063 (University of Mississippi)

Environmental Science, Civil and Environmental Engineering



- RCMI Center for Environmental Health -\$2,173,096 (NIH)
- 2014 DHS Scientific Leadership Awards for Minority Serving Institutions Granting Bachelor Degrees -\$589,000 (DHS)
- Maritime Transportation Research and Education Center (MARTREC) - \$383,700 (U.S. Dept. of Transportation)
- Center of Analysis and Response to Coastal Hazards (ARCH) - \$250,000 (U.S. Dept. of Homeland Security)
- Numerical Water Quality and Contaminant Modeling -\$279,525 (Army)

Public Health, Health Sciences and Health Disparities



- Eliminating Health
   Disparities through
   Multi-Trans-Disciplinary
   Approaches \$1,057,273
   (NIH/NHLBI)
- Graduate Training and Education Center (GTEC)-\$734,076 (NIH/NHLBI)
- Jackson Heart Study Field Center - \$222,673 (NIH/ NHLBI)
- Mid-South Transdisciplinary Collaborative Center for Health Disparities Research -\$185,664 (NIH)

Social Work, Community Engagement and Outreach



- Community Education and Outreach Core (CORC) – \$848,449 (NIH/NHLBI)
- Public Information and Enforcement - \$301,216 (MS Dept. of Public Safety)
- HIV/ Substance Abuse Awareness Prevention -\$299,319 (DHHS/SMHSA)
- The Impact of Racially Traumatic Events on African Americans -\$170,880 (NSF)
- Alcohol Impaired Driving-\$156,426 (MS Dept. of Highway Safety)

CyberLearning, Education, STEM Education and Workforce Development



- Strengthening Historically Black Colleges and Universities - \$4,862,359 (U.S. Dept. of Education)
- Special Education Personnel Development to Improve Services and Results for Children with Disabilities -\$204,795 (U.S. Department of Education)
- HBCU Student Aid and Fiscal Responsibility Act (SAFRA)
   \$1,421,445 (U.S. Dept. of Education)
- Cohort 12 JSU Bridge to the Doctorate - \$987,000 (NSF)
- ADVANCE Transforming the Climate and Advancing STEM Women at JSU -\$726,694 (NSF)

Materials
Science and
Engineering
and Nanoscale
Science and
Technology



- Partnerships for Research and Education in Materials (PREM) - \$600,000 (NSF)
- AFRL Collaboration Program Materials and Manufacturing Research - \$49,998 (U.S. Air Force)

Innovation,
Entrepreneurship,
Economic and
Small Business
Development



- 2015 Small Business
   Development Center \$132,692 (U.S. Small Business
   Administration)
- NSF Innovation Corps L Program - \$50,000 (NSF)
- Expansion of Programs to Improve Library Services (Technology Transfer)
   \$6,000 (HBCU Library Alliance)

Globalization



 Curriculum Internationalization and Strengthening Study Abroad
 \$87,111 (U.S. Dept. of Education)

# 19 JSU Researchers Honored for Securing the Top-Funded Projects During the FY 2013-2015

During a reception held at her home, Jackson State University's president, Dr. Carolyn Meyers, recognized 19 researchers for their contribution to the research enterprise at the university. "You are pushing the boundaries of now, which are the hallmarks of a great university. I am thrilled today because JSU is a challenging place with challenging people. I celebrate your efforts and the impact that your research is having on not just our students but this entire university."

According to Dr. Loretta A. Moore, vice president for Research and Federal Relations, these researchers collectively brought in more than \$45 million in sponsored research during fiscal years 2013 – 2015. The Division of Research and Federal Relations works with faculty and staff to identify funding opportunities and to secure externally funded grants, contracts and cooperative agreements, Moore explained. The Sponsored Programs Unit is the centralized unit within the Division charged with coordinating research and sponsored program activities campus-wide. The Unit identifies funding opportunities, coordinates proposal and budget development, and assists with project implementation and management. Some of the agencies that support our efforts at JSU include National Science Foundation, National Institutes of Health, Department of Defense, U.S. Department of Homeland Security, U.S. Department of Education, Mississippi Department of Education and organizations such as the Kellogg Foundation and the David and Lucile Packard Foundation.





Shahrouz K. Aliabadi, Ph.D.
Northrop Grumman Professor of Engineering,
Department of Electrical and Computer Engineering,
College of Science, Engineering and Technology

Dr. Aliabadi's areas of expertise are computational aerodynamics, computational fluid dynamics, high performance computing, parallel processing, finite element method, finite volume method, mesh generation, and flow visualization. He is the director of the Northrop Grumman Center for High Performance Computing of Ship Systems Engineering. In addition to the support of Northrop Grumman, High Performance Technologies Inc. and the U.S. Department of Defense, NASA EPSCOR, and the U.S. Nuclear Regulatory Commission have also supported Aliabadi's work.



Donna A. Antoine-Lavigne, M.P.H., Ph.D. Principal Investigator, Jackson Heart Study Community Outreach Center, School of Public Health

Dr. Antoine-Lavigne's research interests include the impact of community engagement on African-American engagement with biomedical research, cardiovascular disease, obesity, and social determinants of health. She has served as principal investigator on community engagement grants with the Dana Farber Cancer Institute, JSU Center of Excellence in Minority Health and Health Disparities, JSU Institute of Epidemiology and Health Services Research, University of Alabama at Birmingham, and University of Michigan. She has extensive experience as an administrator in state and community health centers including the Mississippi Department of Mental Health and Jackson-Hinds Comprehensive Health Center.



M. Edwina Barnett, M.D., Ph.D. Interim Director, RCMI Translational Research Network-Data Technology and Coordinating Center (RTRN-DTCC)

Dr. Barnett serves as the interim director for the RCMI Translational Research Network-Data Technology and Coordinating Center. The DTCC provides a secure website; data management and data sharing tools; and staff, hardware and software for collection, analysis, storage and exchange of clinical data for the multi-site studies. Barnett's expertise is nephrology, a specialty of medicine and pediatrics focused on the study of normal kidney function, kidney problems, the treatment of kidney problems, and renal replacement therapy. The Consumers' Research Council of America named Barnett as one of America's Top Physicians in 2007 and 2008.



Deborah F. Dent, Ph.D.
Vice President for Information Technology and
Chief Information Officer

Dr. Dent joined JSU after a 37-year career with the U.S. Army Corps of Engineers, where she won several awards, including: induction into the Gallery of USACE Waterways Experiment Station Distinguished Employees (2014); U.S. Department of the Army Meritorious Award for Civilian Service (2008); and recognition from the Mississippi Business Journal as one of Mississipp''s 50 leading business women (2007). Since joining JSU, her accomplishments and achievements include updating JSU's wireless infrastructure, co-facilitating the iPad Scholars Program for first-time freshmen, revitalizing the campus enterprise resource program, and initiating a new IT strategic plan. Dent recently received funding from the U.S. Army Engineer Research Development Center.



Mehri Fadavi, Ph.D. Interim Chair and Professor, Department of Physics, Atmospheric Sciences and Geoscience, College of Science, Engineering and Technology

Dr. Fadavi's research interests include solar activities and their relation to climate change, searches for super nova and asteroids, and observation technology. She has also devoted her attention to building instructional and research infrastructure in astronomy for JSU students and enhancing teaching effectiveness and integration of technology in the classroom of K-12 science teachers. Currently, she is the project director of two major grants: Project IC FAIM - Institutional Change through Faculty Advancement in Instruction and Mentoring (National NSF HBCU-UP) and Project MAT-PD – Mathematics Advancement in Teaching through Professional Development (MDE). Fadavi has served as principal investigator or co-principal investigator on grants funded by the National Science Foundation, Mississippi Department of Education, the U.S. Department of Education, the David and Lucile Packard Foundation, and the National Aeronautics and Space Administration.



Ashton T. Hamme, II, Ph.D.

Professor, Department of Chemistry and Biochemistry, College of Science, Engineering and Technology

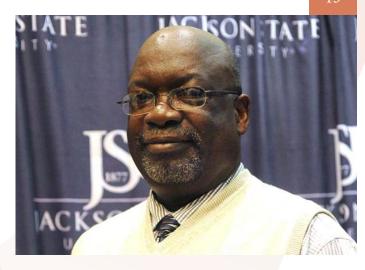
Dr. Hamme's research focuses on the synthesis and derivatization of naturally occurring anti-cancer compounds and the detection and quantification of bacteria through functionalized nanoparticles. He has conducted industrial research using medicinal chemistry to co-invent more than 10 patents. He has been a principal investigator on externally funded research grants from the Central Mississippi Steel Magnolias Affiliate of Susan G. Komen for the Cure, National Institute of General Medical Sciences, and National Science Foundation. He is the co-principal investigator of the Louis Stokes Mississippi Alliance for Minority Participation (LSMAMP), an undergraduate student program funded by the National Science Foundation. In 2012, Hamme received the One JSU Teacher of the Year Award and, in 2013, the JSU Outstanding Faculty of the Year HEADWAE Award from the state of Mississippi.



Glake Hill, Ph.D.

Associate Professor, Department of Chemistry and Biochemistry, College of Science, Engineering and Technology

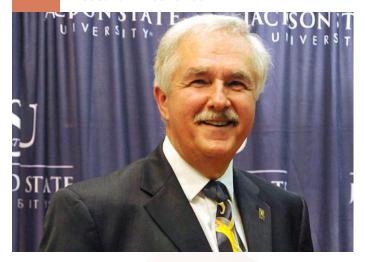
Dr. Hill's research is focused within the areas of theoretical and computational chemistry, where he develops tools that will provide accurate information about relatively large systems. Applications of his work include characterization of biosystems and nanomaterials and evaluation of metals as possible drugs to treat a variety of diseases. His work has been published widely including in Chemical Physics Letters, International Journal of Quantum Chemistry, Journal of Computational Chemistry, Journal of Molecular Modeling, Journal of Physical Chemistry, and Structural Chemistry. Hill is the principal investigator for an NIH RISE grant that utilizes undergraduate-graduate student teams to train students as research scientists in chemistry and biology and encourage them to pursue doctorate degrees. He is also co-principal investigator of a Mississippi EPSCoR project.



Tor A. Kwembe, Ph.D.

Professor and Chair, Department of Mathematics and Statistical Sciences, College of Science, Engineering and Technology

Kwembe's broad research interests include classical analysis, ordinary and partial differential equations with the Wentzell or dynamic boundary conditions, and biomathematics including the modeling of disease and physiological disorders. His current research focuses on developing formal mathematical and statistical theories for — and applications to — genome science and climate and tropical cyclone/hurricane forecasting using quantitative exploration of real-time data. As an educator, Kwembe has designed programs to integrate technology and undergraduate research into instructional practices to facilitate student learning. Kwembe has been awarded funding from the Mississippi Institutes of Higher Learning, National Institutes of Health, National Science Foundation, Pearson, Texas Instruments, and the U.S. Department of Energy.



Jerzy Leszczynski, Ph.D.
Professor and President's Distinguished Fellow,
Department of Chemistry and Biochemistry, College of
Science, Engineering and Technology

Dr. Leszczynski's research and contributions to his field of computational quantum chemistry include the discovery that amino groups in DNA base are nonplanar which facilitate various types of interactions vital for DNA stabilization, development and application of novel and efficient methods to study nanomaterials, and detailed computational investigation of the interactions of nanospecies with biological species. The president of the Polish Republic awarded Leszczynski the honorific title of professor in 2010. He was also awarded the White House Millennium Award for Teaching and Research Excellence in Mathematics, Science and Engineering (2001), the Maria Sklodowska-Curie's Medal from the Polish Chemical Society (2007), and Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring (2009). Recently, Leszczynski was named to the U.S. Environmental Protection Agency Board of Scientific Counselors. Leszczynski is the director of the National Science Foundation-funded Interdisciplinary Nanotoxicity CREST Center.



Earnestine McNeal-Brown
Director, Interdisciplinary Alcohol and Drug Studies
Center, College of Liberal Arts

Mrs. McNeal-Brown's research interests include public health, sexuality, criminology and sociology. Through her work in these areas, she has built strong linkages with community providers of prevention and rehabilitation services. Mrs. McNeal-Brown currently serves as director of the Interdisciplinary Alcohol and Drug Studies Center; she has also served as principal investigator or co-principal investigator on multiple grants dealing with substance abuse.



Loretta A. Moore, Ph.D. Professor, Department of Computer Science; Vice President, Division for Research and Federal Relations

Dr. Moore's research interests include cyber security, computational thinking, intelligent systems, visual analytics, open source software development, human computer interaction, computer science education and research experiences, and broadening participation of the nation's workforce. She is the principal investigator for JSU ADVANCE, a project with an overall purpose to transform the institution's climate to promote equal opportunities for the advancement of all faculty. Recently, she has served as principal investigator for Students Promoting Interest in Computing Supported by Educational Scholarships (SPICES) and Advancing Computational Thinking and Computing innovators in a Cyber-Enabled Community as well as co-principal investigator for the Computational Thinking as an Approach to Refining the Critical Thinking and Analytical Reasoning Skills of Undergraduates at an HBCU and Incorporating Systems Security projects. During her academic tenure, Moore has served as principal investigator or co-principal investigator on a number of grants and contracts. The granting agencies include Jacobs Technology, Lawrence Livermore National Laboratory, NASA, National Science Foundation, U.S. Department of Homeland Security, U.S. Department of Justice and several foundations.



Marinelle Payton, M.D., Ph.D. Professor of Epidemiology, Assistant Dean for Research and Program Development, School of Public Health

Most of Dr. Payton's research is focused on health disparities and epidemiology. As founding chair of the Public Health Program, Payton led the design and implementation of the only accredited doctorate of public health program in Mississippi and facilitated development of the research infrastructure that will undergird the first School of Public Health in Mississippi. She is director and principal investigator of the Institute of Epidemiology and Health Services Research (Centers for Disease Control), Center of Excellence in Minority Health and Health Disparities (NIH-NIMHD), and the Mid-South Transdisciplinary Center on Health Disparities (NIH-NIMHD). As principal investigator, she designed multiple junior faculty development programs: Health Disparities Research Training and Education Program (NIH-NIMHD), Pilot Research Grants Program (NIH-NIMHD), and Summer Career Development Institute in collaboration with the University of Pittsburgh (NIH). Payton is the director and principal investigator of the Jackson Heart Study Graduate Training and Education Center and is principal investigator for the Daniel Hale Williams Scholar Program (NIH-NHLBI), Summer Obesity Research Training Program (NIH-NIMHD), and Scholarships for Health Professions' Program (U.S. Department of Health and Human Services).



Paresh Chandra Ray, Ph.D.
Professor, Department of Chemistry and Biochemistry,
College of Science, Engineering and Technology

Dr. Ray's research is focused on the nexus of chemistry and biology exploring new chemical strategies for imaging and therapy of cancer cells, creating new nano-based sensors for chemical and biological toxins, designing multi-functional nanomaterials for multimodal imaging, and enhancing our understanding of biomolecular interactions with nanosurfaces. He was the recipient of the 2014 Mahatma Gandhi Prayasi Samman Award. He holds one pending U.S. patent, and Ray was recognized as an innovator by the state of Mississippi and JSU. He currently serves as program director for the JSU Partnership of Research and Education on Material Science Program and the JSU Research Experience for Undergraduates (REU) Program, both of which are funded by the National Science Foundation. Over the last 10 years, Ray has served as principal investigator or co-principal investigator on projects cumulatively funded with more than \$13 million. The National Institutes of Health, National Science Foundation, Universal Technology Corporation, U.S. Department of Defense, and U.S. Department of Homeland Security are some of the agencies that have funded Ray's research.



Jacqueline Stevens, Ph.D.
Associate Professor, Department of Biology, College of Science, Engineering and Technology

Dr. Stevens conducts research in gene expression and carcinogenesis and publishes widely, including in the International Journal of Environmental Research and Public Health, Journal of Cellular and Molecular Biology, and Meta Ions in Biology and Medicine. Recently, she was accepted to the NSF-Funded Chicago School of Professional Psychology's Post-Graduate Certificate Program in Academic Leadership. Stevens is the program director for Minority Access to Research Careers (MARC/U\*STAR), which provides research training and experiences to students working with faculty in biology, chemistry, and psychology. She has also been a co-principal investigator on multiple NIH-NCRR RCMI grants.



Paul B. Tchounwou, Sc.D. Professor and Presidential Distinguished Professor, Department of Biology, associate dean, College of Science, Engineering and Technology

A recipient of the White House Millennium Award for Teaching and Research Excellence in Mathematics, Science and Engineering (2003), Tchounwou has also received other awards and honors: life membership in the scientific faculty of the International Biographical Institute (Cambridge, England); National Role Model Award for Exemplary Achievements in Mentoring, Counseling and Guiding Others; AACR Faculty Scholar Award for Cancer Research; and International Order of Merit for Superb Contributions to Biomedical Sciences. The NCRR Reporter magazine of the National Institutes of Health recently highlighted his work on arsenic trioxide pharmacology and toxicology. He has published 178 papers in refereed journals and books and serves as editor-in-chief of the International Journal of Environmental Research and Public Health and Environmental Toxicology: An International Journal. Tchounwou is the director of the Center for Environmental Health (NIH RCMI), director of the Center of Excellence in STEM Education (U.S. Department of Defense), and director of the Environmental Science Doctoral Program.



Daniel Watkins, Ph.D.

Dean, College of Education and Human Development

Dr. Watkins has more than 12 years of real-world experience in nearly all facets of K-12 education. He has served as a teacher, assistant principal, and principal and school district superintendent. He also brings to the position of dean extensive post-doctoral training in educational leadership praxis including leadership institutes at Harvard and Howard. Watkins is one of only 30 national members of Teachers for a New Era. He has served as project director of the Delta Teacher Development Initiative and principal investigator on several externally funded projects including the Beyond the Bricks Program, Improving Teacher Quality Program, Jackson Public Schools Leadership Grant, Leadership Development Academy Project, and Teachers for a New Era Learning Network. Among recent grants under his management are America Reads — Mississippi, Call Me Mister and Educational Achiever.



Robert W. Whalin, Ph.D. Professor, Department of Civil Engineering, College of Science, Engineering and Technology

Dr. Whalin's research interests focus on breakwaters, hurricane surges, tsunami inundation, near-shore wave transformations and engineering education. He brought to JSU more than 30 years of experience and leadership in the Army Research Laboratory and U.S. Army Corps of Engineers Waterways Experiment Station. During this period, he was awarded the Meritorious Executive Presidential Rank Award in 1987 and 2002 and the Distinguished Executive Presidential Rank Award in 1994. Currently, Whalin is the director and principal investigator for the competitively awarded Center for Analysis and Response to Coastal Hazards, an education-focused Center of Excellence funded by the U.S. Department of Homeland Security. Whalin also serves as the Director of Education for the University of North Carolina Coastal Resilience Center of Excellence with which JSU is the major partner for education.



Velesha P. Williams Director, Metro Jackson Community Prevention Coalition, Office of Community Engagement

A certified prevention manager and prevention specialist, Mrs. Williams has more than 25 years of leadership and management experience and has been engaged in substance abuse prevention for 19 years. Her contributions to the field were acknowledged when the Mississippi Association for Addiction Professionals named her as the Prevention Professional of the Year (2014) and the Mississippi School for Addiction Professionals awarded her the Herbert L. Loving Award of Excellence (2015). Currently, Williams is principal investigator/project director for the Substance Abuse Block Grant funded by the Mississippi Department of Mental Health and the Mississippi Delta Region Impaired Driving Prevention Initiative funded through the Mississippi Office of Highway Safety.



Pao-Chiang Yuan, Ph.D.
Professor, Department of Industrial Systems and
Technology, College of Science, Engineering and
Technology

Dr. Yuan's research interests include the reduction of electronic waste in the waste stream, GIS applications and groundwater modeling, emergency management, and the promotion of public awareness of the need for recycling. Yuan is the project director and principal investigator of the JSU-Hinds County-Mississippi Department of Environmental Quality Computer Recycling Program, which has received multiple awards including the U.S. Environmental Protection Agency (EPA) Waste-Wise Program designation. In 2009, the Association of Technology Management and Applied Engineering (ATMAE) named Yuan as its Outstanding Professor of the Year. The U.S. Department of Homeland Security and the EPA have funded his projects.



### Local and National Call Me MISTER Officials Crafting Minority Education Strategies

Local and national leaders in the Call Me MISTER program were on the JSU campus brainstorming about ways to promote educational attainment among black youth. Fewer than 2% of U.S. public school teachers are African-American men and approximately 2 percent of Mississippi's public elementary school teachers are African-American men, according to JSU's Mississippi Learning Institute. The JSU Call Me MISTER program is leading the way in recruiting more African-American male teachers for Mississippi classrooms with 15 students enrolled and all but four of them Mississippi natives, according to Amy Berry, Interim Director of the Mississippi Learning Institute.

The MISTER program began in South Carolina, according to Dr. Roy Jones executive director of the national program and associate professor of educational leadership at Clemson University in Clemson, South Carolina, who was attending the meetings. Jones said educators were concerned in the 1990s when statistics showed that fewer than 1 percent of teachers in South Carolina were African-

American males, while making up one-third of the state's population. This "stark reality" led to the creation of the program "to change the culture and face of education in South Carolina," Jones said, by providing a pipeline for African-American male teachers to act as role models. The MISTER (Mentors Instructing Students Toward Effective Role Models) program started in 2000 and now includes 31 colleges nationwide.

The educational leaders met at the INNOVATE Center at H.T. Sampson Library to craft a strategy for improving Mississippi children's education in partnership with the program According to Toni Y. Kersh with the Office of School Improvement, Office of Dropout Prevention and Compulsory School Attendance at the Mississippi Department of Education, a goal is to develop a program for second graders at Jackson's Isable Elementary School. The program would be part of the third-grade reading initiative in Mississippi and could act as a national role model. Dr. Beth P. Reynolds, executive director of the National Dropout Prevention Center/Network, Clemson, S.C., was participating in the planning, as was Dr. Daniel Watkins, JSU dean of the College of Education and Human Development.

JSU's program started in 2012 with five students and is the only such program at a Mississippi university. Five students are recruited per year.



# Innovation and Entrepreneurship Highlights

- JSU received 2 invention disclosures and has 1 patent pending with the United States Patent and Trademark Office. The disclosures and pending patent are from faculty in the Departments of Biology, Chemistry & Biochemistry, and Civil & Environmental Engineering.
- JSU hosted a month long series of activities to celebrate Mississippi Innovation Month and was given an opportunity to share these activities with attendees at the Annual Conference on Technology Innovation.
- > The Division of Research and Federal Relations collaborated with the College of Business to host the Mississippi Blueprint Social Entrepreneurship Business Plan Competition.
- The Technology Transfer, Licensing and Commercialization Unit within the Divison of Research and Federal Relations collaborated with the H. T. Sampson Library to host four intellectual property workshops as part of a grant received from the HBCU Library Alliance.
- Two teams (JSU Advancing STARS and Cyber Tigers) from JSU participated in the National Science Foundation's Innovation Corps L program designed to provide realworld, hands-on, immersive learning about what it takes to successfully transfer knowledge into products and processes that benefit society.



# Innovation: JSU Blueprint Mississippi Social Entrepreneurship Business Plan Competition

Jackson State University participated in the first ever Blueprint Mississippi Social Entrepreneurship Business Plan Competition. Blueprint Mississippi is an independent cooperative of organizations and leaders who conducted an objective review of Mississippi's economic opportunities and recommended actions for putting Mississippi in the place of greatest opportunity. Before participating in the statewide competition, an on campus competition was held to select the JSU representative. JSU held its competition as part of its Innovation Month activities. Six student led teams participated: C3 Capital Creators, F.A.O. LLC (Fighting Against Obesity for a Healthy Lifestyle, J'Arrive, Mississippi Urban Organics, Team C.U.R.E. and The Non-Profit Profit Makers: Commercial Kitchen Incubator at Lowry House. Each team had at least one faculty advisor who guided the team through the process. The competition was judge by entrepreneurs and innovators.

The Blueprint Mississippi Social Business Challenge, supported by the Mississippi Institutions of Higher Learning, invites teams of students to put their heads together and come up with a creative solution to address one of Mississippi's most pressing problems. Open to any public university student, the challenge requires students to work in teams of six with at least one faculty adviser. The winning team was announced during a reception, held two days after the competition. Mississippi Urban Organics was judged as having the best business plan. The team's business plan includes addressing urban blight, boosting employment and promoting health by farming on unused urban land. The urban organic farm, at least in its initial stages, would grow tomatoes. The team consisted of: Ms. Sierra Jackson, Mr. Javis Jones, and Mr. D'Angelo Mitchell. Mr. Steven Shelt,

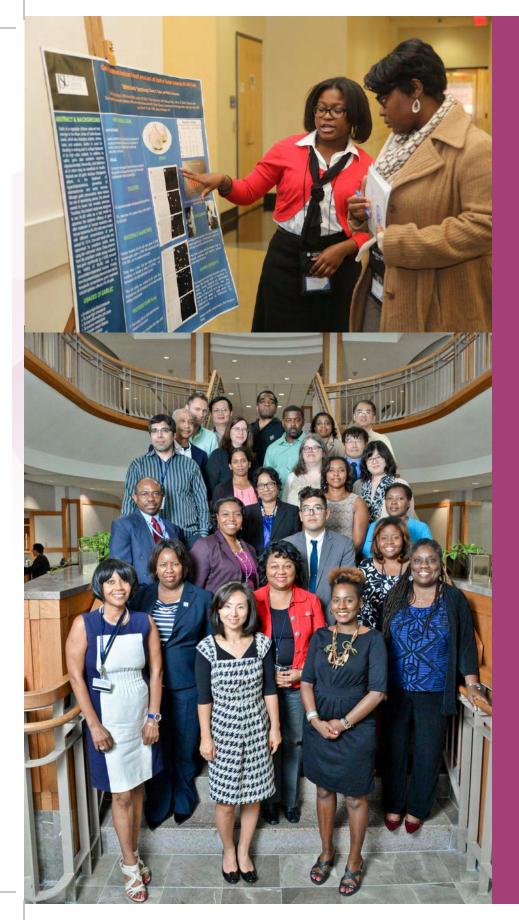
proprietor of Garden-to-Table LLC, served as business advisor, while Dr. Kenneth Russ served as faculty advisor.

Courtesy of the Mississippi eCenter Foundation, the members from all six teams received a cash prize for their participation. The Division of Research and Federal Relations presented trophies to all of the participants. Mississippi Urban Organics went on to represent Jackson State University at the statewide competition, where Mississippi Governor Phil Bryant, commended the teams and their entrepreneurial spirit. Dr. Ramin Maysami, dean of the College of Business, Dr. Loretta A. Moore, vice president for Research and Federal Relations, and Ms. Almesha Campbell, intellectual property manager, spearheaded the initiative for Jackson State University.

### Scholarly Engagement

### Highlights

- > The Academy for Research and Scholarly Engagement sponsored 23 Academy Scholars. Of those 23, 16 have submitted proposals as PI or Co-PI to external agencies or foundations totaling \$5,340,565. So far, funding has been received in the amount of \$54,500.
- > 110 faculty members received travel funds to attend conferences to present their research; 71 conferences were attended.
- The Center for University Scholars hosted twelve (12) Faculty Engagement and Assessment Program workshops. The workshops were attended by 325 participants.
- > The Center for University Scholars hosted eleven (11) Brown Bag Research Talks.
- Twenty-six faculty members received graduate assistantships: College of Education and Human Development (4), College of Liberal Arts (7), College of Public Service (7) and College of Science, Engineering and Technology (8). \$64,320 were allocated for graduate assistantships.
- > All colleges have received support from the Center for University Scholars.



### Celebrating Academy Scholars

Initiated in 2012, the Academy for Research and Scholarly Engagement seeks to broaden the community of faculty members who submit proposals as principal investigators and who receive funding for their research and scholarly agendas. It does so through an intensive yearlong series of activities including workshops, mentoring, and engagement with foundations and federal agencies. In its third year, the Academy continues a tradition of promoting faculty success in acquiring external funding.

"When the faculty succeeds, students succeed," said Dr. Loretta A. Moore, vice president for JSU's Division of Research and Federal Relations. "Over the past two years, individuals have submitted and published articles based on research and delivered many presentations — a critical juncture for junior faculty members." Moore said the academy builds a community of people working together to address national challenges across many disciplines. "Recognition of cohorts validates the importance of their research."

See pages 26 - 31 for more information on Cohort 3 scholars.

#### **Scholarly Engagement**









Okechukwu Anyamele, Ph.D. Associate Professor, Department of Economics, Finance and General Business

Dr. Anyamele's work investigates three research areas: the roles of race, ethnicity and socioeconomic status in health outcomes among Mississippians; racial and ethnic differences in loan delinquency rates in the US; and the roles of wealth and education in infant and child mortality rates in sub-Saharan Africa. For the Academy he proposes a financial literacy and debt management program for African-American and Latino households. Dr. Anyamele is an article editor for the Sage Open Journal of Social Science and member of the editorial board of the International Journal of Economics and Management Science.

Gauri Bhattacharya, D.S.W. Professor, School of Social Work

Dr. Bhattacharya's community-based study is on aging, living well with chronic illness, and self-care among African Americans in the Mississippi Delta. Broadly, her research focuses on achieving equity in the areas of health care access and utilization, and health care outcomes. She has explored these interests in multicultural contexts including African-Americans in the Mississippi Delta region and South Asian immigrants in New York City. A licensed clinical social worker, Dr. Bhattacharya has extensive clinical practical experience particularly with substance-abusing adolescents and families.

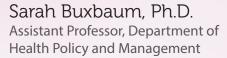
Janice Brockley, Ph.D. Associate Professor, Department of History and Philosophy

In the late 1950s, Mississippi was forced to consider the integration of Ellisville, the state school for the people with intellectual and developmental disabilities. Dr. Brockley's Academy proposal investigates the ways Mississippi tried first to avoid and then to delay integration of Ellisville and the patterns and dynamics of race relations among inmates and staff post-integration. A social historian, Dr. Brockley explores the history of intellectual disability. Her broader interests include the history of health and disability, the history of childhood and the family and methods of teaching history.

Kathy J. Bryant, Ed.D. Assistant Professor, Department of Elementary and Early Childhood Education

A former kindergarten and first grade teacher, Dr. Bryant brings years of real-world experience to her teaching and research in elementary and early childhood education. For the Academy, Dr. Bryant proposes a structured peer-based mentoring and advisement program to improve retention, graduation and certification of pre-service teachers. Previously, she has received educational resource grants from the Education Foundation Trust.





Dr. Buxbaum is a genetic epidemiologist who has published in Nature, Lancet, American Journal of Human Genetics, European Journal of Human Genetics, and the Journal of the National Cancer Institute. (Eleven of her papers have been cited over 50 times.) She is particularly interested in analysis of quantitative traits pertaining to complex diseases and in family-based genetic analyses. With a Co-Pl, Dr. Buxbaum submitted a research grant, Racial Differences in Inflammation and Dysfibrinolysis among Post-Menopausal Women, to the American Heart Association.



Miguel Centellas, Ph.D. Assistant Professor, Department of Political Science

Dr. Centellas is an expert on Bolivian politics with numerous articles in peer-reviewed journals such as Latin American Research Review, Latin American Perspectives, Electoral Studies, and The Latin Americanist. He is also interested in evaluating measures of democracy, and previously co-authored a methodological critique of existing measures in Political Analysis. With Co-Pls at Rice University, Wake Forest University, and Washington College. Dr. Centellas submitted a multi-year, multi-site collaborative project studying candidate selection in ten Latin American countries to the National Science Foundation.



H. Tomaz Cunningham, Ph.D. Assistant Professor, Department of English and Modern Foreign Languages

Dr. Cunningham's research interests explore eighteenth and nineteenth century French literature, cultural and historical relationships between the United States and France and adult second language acquisition. In response to a National Endowment for Humanities request for proposals, Cunningham developed a proposal to investigate theatrical productions featuring black characters that were in Paris, France from 1825 to 1850.



Ivan Elezovic, Ph.D.
Assistant Professor, Department of Music

Dr. Elezovic's compositional output ranges from acoustic to electroacoustic works including mixed media and has been recognized and performed at national and international competitions and festivals. In 2014, he was awarded a Performing Arts Fellowship by the Mississippi Arts Commission. Dr. Elezovic submitted The Sound of Drawing Instruments to the Canadian Arts Council. The proposal extends previous work on Drawing Noise, a multimedia collaboration (with Profs. Chang and Geil) that blends experimentation in sound engineering with explorations of the sound, image and movement of drawing instruments on paper. Drawing Noise has been shown at the International Festival for Innovations in Music Production and Composition in the UK.





Prof. Geil recently collaborated with Prof. Chung-Fan Chang and Dr. Ivan Elezovic on the multimedia composition, Drawing Noise, which had its international debut at the International Festival for Innovations in Music Production and Composition in the United Kingdom. His photography will be featured in the upcoming Mississippi Museum of Art pop-up show Analog v. Digital and has been awarded an honorable mention in the City of Jackson's Sky Through My Eye competition. His funding proposal to the New Orleans Photographers Alliance explores Southern museum culture.



Lolita Gray, Ph.D. Assistant Professor, Department of Political Science

With a Fulbright-Hayes award, Dr. Gray conducted extensive research on environmental health issues and public policies attempting to ameliorate those issues in Ghana, Burkina Faso and Togo. Among her research interests are urban communities and politics, environmental justice and minority health disparities. She has submitted a grant proposal, "System-Level Health Services and Policy Research on Disparities," to the National Institutes of Health.



Hung-Chung "Joe" Huang, Ph.D.

Assistant Professor, Department of Biology

Dr. Huang's drug-design related molecular dynamics simulation article was featured on the journal cover of Biopolymers. Among his other publications are two-coauthored articles in Science. Dr. Huang has worked as a bioinformatics system engineer or computational biologist at three major university medical centers in the United States. His proposal, "Discover Susceptibility Genes for Airway Diseases via Expression Quantitative Trait Loci (eQTL) Analyses" will be submitted to NSF or NIH.



Hyunju Kim, Ph.D. Associate Professor, Department of Computer Science

As a member of the initial Academy Scholars cohort, Dr. Kim submitted and was funded as a PI for the Student-Centered Open Source Software Community by the National Science Foundation. She has also been a co-principal investigator or senior personnel on grants funded by the NGA, NSF and US Department of Energy. Her research interests include open source software, data mining and multimedia information systems. Her current proposal, "Visualization of Relationships among Health Determinants that Are Associated with Cardiovascular Disease and Diabetes in African Americans," will be submitted to the National Institutes of Health.





Dr. Ko's research interests focus on human dimensions of natural ecosystem management, environmental and energy evolution of environmentalism. He has previously worked on projects funded by the Houston Advanced Research Center and Galveston Bay Estuary Program, Louisiana Governor's Office of Coastal Activities, Louisiana Sea Grant College Program and Texas Sea Grant College Program. Ko is drafting a proposal for the US Department of Agriculture that addresses sustainable community development for the Mississippi Delta Region in the context of a globalized economy.



Ranjani Kulawardhana, Ph.D. Assistant Professor, Department of Biology

A recipient of the National Research Council of Sri Lanka's Presidential Award in Scientific Research, Dr. Kulawardhana investigates policy, urban management and the remote sensing and GIS applications for the inventory, monitoring and assessment of ecosystems and natural resources; the monitoring and assessment of carbon, biomass and vegetation productivity in natural and managed ecosystems; the study of ecological issues relating to climate change and wetland ecosystems. She submitted two proposals: Remote Sensing Estimates for Quantifying and Mapping Carbon Sequestration Ability of the Estuarine Wetlands in Mississippi" to the Mississippi-Alabama Sea Grant Consortium and "Development of Climate Indicators for US Rangelands" to NASA (Co-PI).



Catherine Kyeyune, Ph.D. Assistant Professor, School of Lifelong Learning

A founder and co-director of the professional development resource of JSU's School of Lifelong Learning, Dr. Kyeyune's research focuses on the impact of mentoring in academic and professional settings especially for minority and nontraditional students. Specifically, she investigates the efficacy of peer mentoring for non-traditional students. Her proposal "Higher Education and Continuing African American Students: Impact on Employment, Civic and Social Outcomes" responds to a solicitation by the Spencer Foundation.



Jaegoo Lee, Ph.D. Assistant Professor, School of Social Work

A recipient of the 2013-2014 College of Public Service Dean's Faculty Research Development Award, Dr. Lee has published articles in Death Studies, Journal of Public Child Welfare, Journal of Social Work Education, Adoption Quarterly and the Journal of Korean Home Economics Education Association. Her work addresses minority children's well-being and the role of parents therein, mental health parenting education in schools and communities and mental health training for social workers and social work students. Dr. Lee proposes to investigate the relationship between substance abuse and HIV prevention programs among college-age African American gays.



Jung Hye Lee, Ph.D. Assistant Professor, Epidemiology and Bio-Statistics Program

Recently funded as PI for the Delta CHES Data Processing and Data File Delivery program by the Mississippi State Department of Health, Dr. Lee has participated as a statistician in several NIH grants: Health-Promoting Programs on CVD Risk (R01), Sleep-Disordered Breathing and Risk for CVD and Stroke (R01), Clinical and Genetic Determinants of Vascular Endothelial Function (R01), and RCMI/RTRN Data Coordinating Center (U54). She was awarded the Faculty Excellence Award at JSU, 2014, College of Public Service Faculty of the Year- Research and Scholarship Award (2013) and One JSU Faculty Excellence Award (2012). Her current NIH proposal examines the roles of perceived racial discrimination and social support on acculturative stress among immigrant communities.



Chandar Lewis, Ed.D. Assistant Professor, Department of Educational Leadership

Dr. Lewis brings more than 15 years of classroom and school leadership experience to her research. She has been a classroom teacher in the Jackson and Canton Public School Districts and principal and assistant principal in the Jackson Public School District. Using that experience, Dr. Lewis has given presentations to the Alice Varnado Harden Center for Service and Community Engaged Learning Conference, the National Association of Hispanic and Latino Studies and the Hinds Community College Annual Child Development Conference. Her current proposal builds on JSU's burgeoning expertise in cyberlearning to rethink and reconfigure principal certification courses for online learning environments.



Kristie Lipford, Ph.D. Assistant Professor, School of Social Work

Dr. Lipford is a NIH Research Trainee in the University of Alabama at Birmingham's Health Disparities Research Training Program and the Jackson State University Center of Excellence in Minority Health and Health Disparities. She has participated in extensive professional development opportunities including the Summer Institute in Sexual Minority Population Health, ICPSR Quantitative Methods Program and UNCF/Mellon International Faculty Seminar. Her current research is for a NIH career development grant. It is titled "The Effect of Medical Discrimination of Medical Adherence and Complementary Medicine Use in the Jackson Heart Study."



Tzusheng Pei, Ph.D. Associate Professor, Department of Computer Science

Dr. Pei's research interests include the blending of object-oriented analysis and design in database design, open source software development, biology and consciousness-related issues, self-regulated learning communities, randomness and structures for representation and quantum computing. He has served as PI on a grant awarded by the JSU Institute for Multimodal Transportation and co-PI on grants funded by the National Science Foundation and the Mississippi NSF-EPSCoR. Dr. Pei has published in ADMI Conference Proceedings, International Journal of Computer Science and Security and the Journal of Information Systems Technology and Planning.





experience in the praxis of administration managing federal health care and social insurance programs including as Chief of the Evaluation Branch of the Health Resources and Services Administration, Director of the Policy and Analysis Office of US Public Health Service and Director of the Division of Community of the Center for Medicare and Medicaid Services. Additionally, he has authored or co-authored two book chapters and multiple articles in Public Administration Review and Public Health Reports. Dr. Robinson is developing a NIH research proposal on racial disparities in end of life care decision-making.



Gloria Smith, Ed.D. Assistant Professor, School of Lifelong Learning

Dr. Robinson possesses extensive Selected as one of the 2013 JSU Innovators, Dr. Smith is a director of student services for the School of Lifelong Learning. She has received the 2014 Service and Professional Activities Award from the School of Lifelong Learning. Dr. Smith is a program monitor for the Southwest Mississippi World-Class Teaching Initiaitve. Her current proposal suggests a qualitative approach to investigating the variables that contribute to retention of non-traditional learners and minority students in online courses and programs. She plans to submit this proposal to the Lumina Foundation.



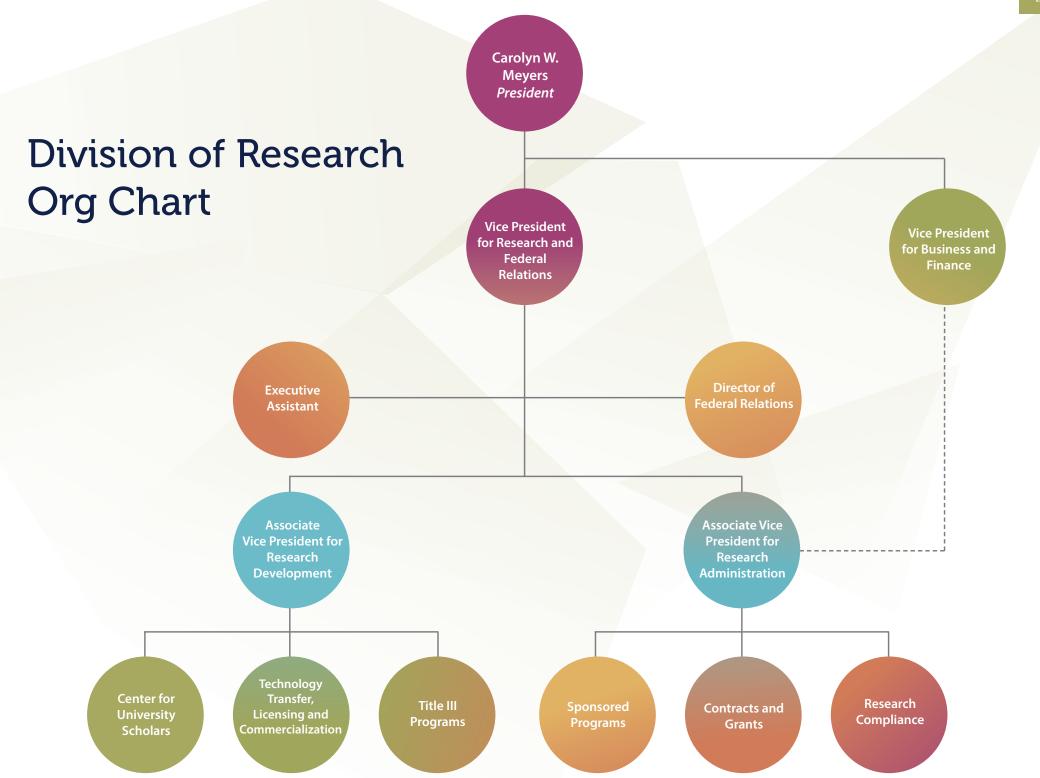
Talva Thomas, Ph.D. Assistant Professor, Department of Urban and Regional Planning

A recipient of the College of Public Service's Junior Faculty Research Award, Dr. Thomas' research agenda scrutinizes housing satisfaction of public housing residents. She submitted a local model project, the Healthy Homes Community Assessment Model, to the Environmental Protection Agency. The project would increase environmental awareness via community outreach (including education, home inspections and testing for lead and other toxins), a healthy home expo and workshops and training.

# Visibility Highlights

- The Division of Research and Federal Relations has visited all of the congressional offices and a number of agencies (Department of Commerce, Department of Education, Department of Energy, Department of Homeland Security, National Institutes of Health, and National Science Foundation).
- The Division of Research and Federal Relations supported the President's Office to host a Presidential Leadership Lecture Series with Dr. Cora B. Marrett.
- The Division of Research and Federal Relations supported the President's Office to host U.S. Representative Bennie Thompson, who toured JSU's campus and discussed ways to increase the profile of HBCUs.
- The Division of Research and Federal Relations hosted Representative Bennie Thompson and Mississippi school district superintendents to discuss how JSU can partner with school districts to strengthen the teacher pipeline through the Teach for Mississippi initiative.

- Ten staffers from the offices of Senator Thad Cochran, Senator Rodger Wicker and Representative Bennie Thompson, visited JSU.
- Armed Services Committee, along with personnel from the U.S. Army Engineer Research and Development Center, visited JSU.
- > The Division of Research and Federal Relations created a brochure to market the university's research focus areas.
- Title III Programs created a new activity: Activity 7: Establishing An Accredited School of Public Health.
- The Division of Research and Federal Relations hired its first director of Federal Relations. The director will work to:
  - Increase interactions with Congressional representatives.
  - Increase visibility through visits of researchers to federal agencies and program officers.



# Marrett urges focus on 'public mission' as JSU Presidential Leadership lecturer

Former Deputy Director of the National Science Foundation (NSF) Dr. Cora B. Marrett urged Jackson State University and other higher education institutions to focus on their "public mission." Saying her remarks were "musings" in the talk titled "The Changing Landscape of Higher Education," the professor emerita at the University of Wisconsin-Madison, who on two different occasions assumed the position of acting director at NSF, said that universities are facing "one challenge after another." Those challenges include declining enrollments, the cost of refurbishing facilities and attracting and retaining top faculty in an era of declining government support. While saying JSU might not fit entirely with these challenges (JSU, for example, is enjoying record enrollment increases each year), she said that all universities are facing financial issues with the "pushback" of higher tuitions while federal funding is cut back. "These challenges demand responses," said Marrett, sharing her comments with the top echelons of deans, faculty and staff as the guest lecturer for JSU's Presidential Leadership Lecture Series held at the Walter Payton Center. She said the two main responses must be:

- > Greater attention to a public mission;
- > Mobilization of all resources to a university's mission.

She said that the public mission of higher education in earlier times was clear. When the United States was creating land grant colleges, the mission of the era was to educate young men — "and they were men then," she said — and prepare them for their roles in society. During the pre- and post-Sputnik era of the 1950s and 1960s, she said the mission was to advance scientific knowledge. Now, she said universities must turn away from the "noblesse oblige" model of the privileged classes determining the needs of universities. But, even so, the public missions of universities have become blurred. Marrett noted that the new role of universities is more difficult because there is a common perspective that since students will individually benefit the most (and it's proven that over a lifetime college graduates command more income than people without a degree), that individuals should bear the cost, not government.

With the equally detrimental view that universities only benefit a narrow segment of society, Marrett said it becomes





even more important that universities adopt a clear public mission. As examples, she gave NASA's mission "to benefit all of humankind" and the Ford Foundation's mission to produce "lasting change that transforms people's lives." The mission, like NSF's, must be a "dedication to public needs" and must have a broad impact with the advancement of knowledge that has implications beyond simply carrying out the work. This dovetails with the second needed response of mobilization of all resources to a university's mission. Marrett argued that the greatest impediment to that mobilization is the creation of "silos" that segment one college, department or

focus from another. Significant exchanges across programs mean success in the landscape of higher education, according to Marrett. Central to that is the engagement of students, which has two effects: 1) helping to clarify questions and benefits of ideas and 2) widening and deepening the educational exposure of students. The goal is to create a living, responsive, plan of action that creates a wider and diverse larger purpose. To a standing ovation, Marrett challenged JSU to ensure than no one should graduate unsure of the university's wider purpose. "Jackson State offers a possible beacon for others," she said.

JSU President Carolyn W. Meyers welcomed Marrett and her ideas, saying that one would "need some shades" to see the brilliance of those attending and of the speaker. And she added that Marrett is for students "another hero" to admire. Marrett spent the day at JSU meeting with faculty, staff and administrators and toured the campus, including the state-of-the-art Trading Room at the College of Business, the INNOVATE and CREATE centers at H.T. Sampson Library and the College of Science, Engineering and Technology.

# Accountability Highlights

- > The Unit of Grants and Contracts was successfully integrated into the Division of Research and Federal Relations.
- All duties previously housed within the Budget Office have been re-assumed by the grant accountants (set up budgets, transfers etc.).
- Jackson State University is now fully using the Banner system for monitoring, reporting, and closeout (reviewing and processing ePAFs and setting up routing queues for online requisition approval/disapproval).
- An automatic grant billing process has been successfully implemented.
- Jackson State University has fully adopted the Time and Effort Certification system within Banner to ensure compliance with federal regulations.
- Jackson State University has expended and recovered over \$59 million in restricted grant funds.
- One hundred percent of our expenditures incurred for FY15 were invoiced and received 98% of the revenue associated with those expenditures.
- Cayuse 424 is now integrated into the Banner system for a more effective proposal submission and tracking process.



### Transparency and Compliance

- > The Division of Research and Federal Relations has implemented the Redistribution of the Indirect Cost Policy.
- The Institutional Review Board (IRB) has reviewed 204 applications, with 38 exempt, 150 expedited and 16 full review.
- > The Division employs a comprehensive training program that meets federal mandates.
- The Division offered Laboratory Safety Training (1,076 participants); Radiation Safety Training (12 participants); RCR (296 participants); International Certification (133 students/faculty); 6 IRB Trainings; and other training.
- > JSU maintains its Mississippi Department of Health license MS-867-01.
- Training was organized through Management Concepts on Federal Grants Updates for 2015, and Uniform Administrative Requirements for Federal Grants: 2 CFR 200 (Subparts A through D). Forty-three individuals participated: activity directors, Division of Research and Federal Relations and Academic Affairs staff. This was sponsored by Title III funds from the United States Department of Education.

# 2015- 2016 Goals The Division will...

serve as a leader in promoting excellence among all the University's scholars and be recognized as an institutional model in developing multidisciplinary collaborations throughout the campus, local, national, and international communities.

promote innovation, academic entrepreneurship, and scholarly engagement in order to increase research and development. increase engagement with program officers and funding agencies, build strategic alliances and collaborations, develop a closer relationship with researchers, and highlight the work of student/ faculty research teams.

establish a transparent pipeline of the entire proposal development and project management process, from concept development and proposal submission to project implementation and research sustainability.

improve the research infrastructure to ensure efficient and effective pre-award and post award activities.

ensure compliance with university, state, federal, and agency regulations and improve organizational efficiency.

### LIST OF RESEARCHERS WITH ACTIVE AND NEW GRANTS AND AWARDS (2014 – 2015)

Office of the President Carolyn W. Meyers

# Division of Academic and Student Affairs

Priscilla Slade Loria Brown-Gordon Melissa L. Druckery Robert Blaine Samuel Jones

# Division of Business and Finance

Rachel Gowan

Division of Information Technology

Deborah Dent

Division of Institutional Advancement

Gina P Carter-Simmers Velesha P. Williams

Division of Research and Federal Relations

Loretta A. Moore

#### College of Business

Sydney Brown

# College of Education and Human Development

Ayanna Gill
Daniel Watkins
Frank L. Giles
Gloria Smith
Milliard Juett Bingham

#### College of Liberal Arts

Byron Orey Ernestine McNeal Helen Crump Lawrence T. Potter Marino Bruce Mark Bernhardt Robert E. Luckett

# College of Public Service

Bennett A. Odunsi Joan Wesley

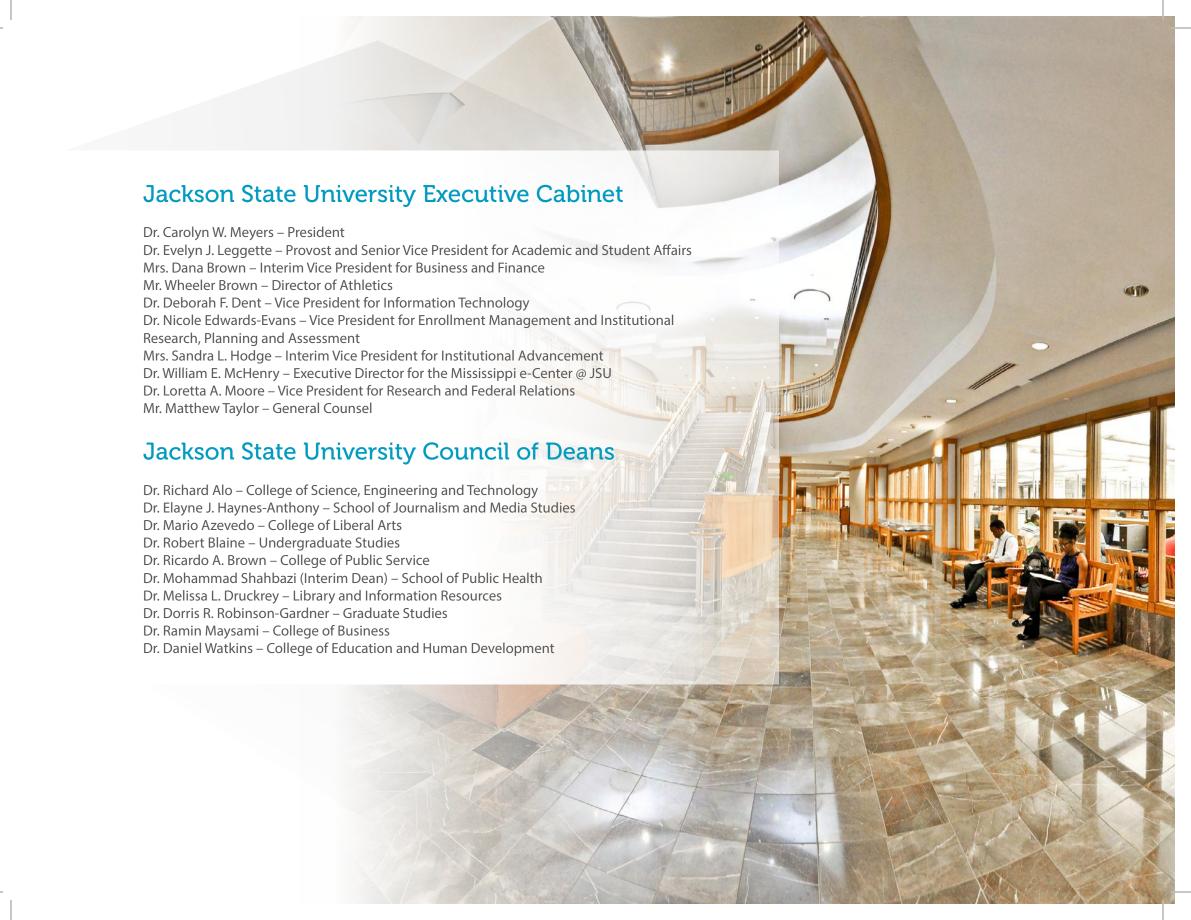
#### College of Science Engineering and Technology

Alamgir Hossain April L. Tanner Ashton T. Hamme Clement Yedjou Danuta Leszczynksa Duanjun Lu **Edwina Barnett** Eldek Abdelnasser Farshad Amini Feng Wang Francis Tuluri Francois Modave Glake A. Hill Gordon Skelton Hafiz A. Ahmad Hongtao Yu Ifedayo V. Ogungbe Jacqueline J. Stevens Jerzy R. Leszczynski Joseph A. Cameron Kamal S. Ali Khalid H. Abed Lin Li Maria Fatima Begonia Martha Tchounwou

Mehri Fadavi Mohammed Ali Natarajan Meghanathan Pao-Chiang Yuan Paresh Chandra Rav Paul B. Tchounwou Richard A.Alo Robert W. Whalin Shahrouz Aliabadi Shuangzhang Tu Stephen Ekunwe Sudha Yerramilli Tigran Shahbazyan Tor A. Kwembe Wei Zheng Wilbur W. Walters Yadong Li Yiming Liu

#### School of Public Health

Clifton Addison
Donna Antoine-Lavigne
Lynette Ekunwe
Jung Hye Lee
Marinelle Payton
Brandi Newark-Turner
Gregory Wilson







#### DIVISION OF RESEARCH AND FEDERAL RELATIONS

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