

Division of Research and  
Federal Relations

Annual Report  
2015 - 2016



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# 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.



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# Vision and Mission

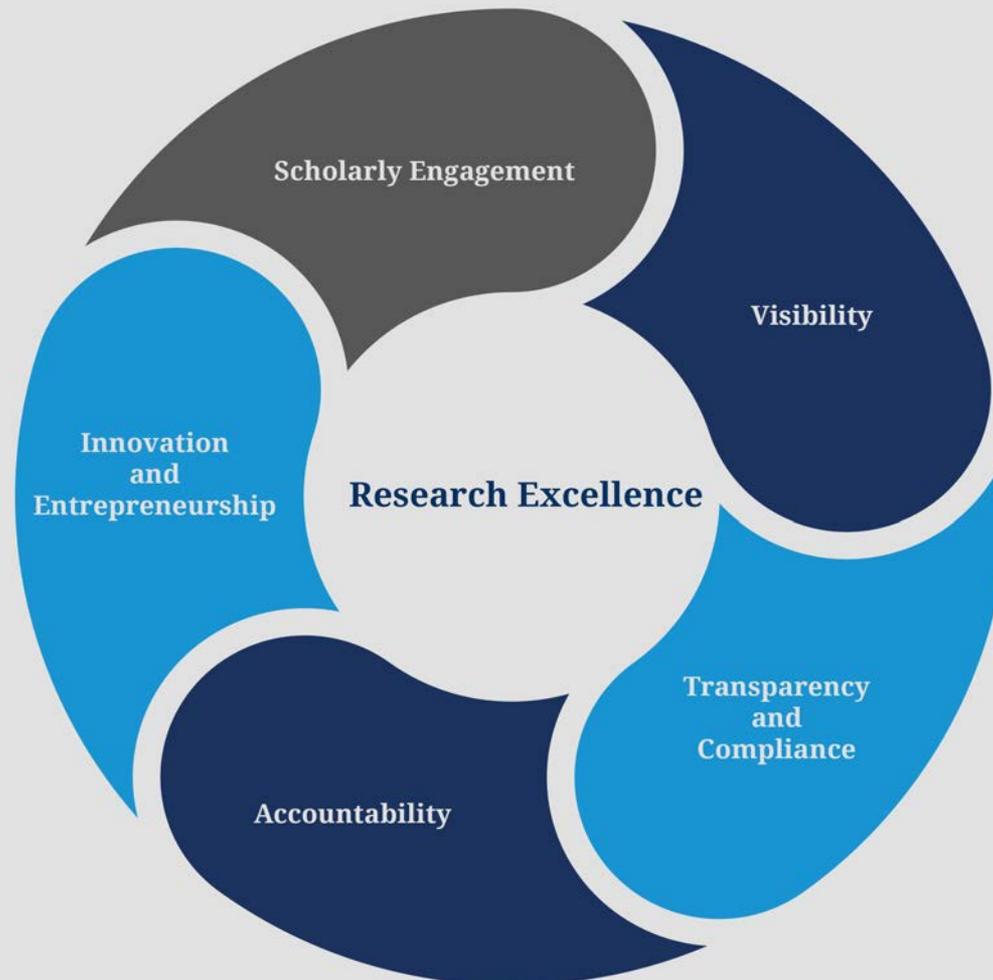
## Mission

- 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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# 2015 – 2016 Accomplishments





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# Funding Distribution FY 2015 - 2016

FUNDING SOURCES	COUNT	TOTAL
National Aeronautics & Space Administration	3	267,000.00
National Institute of Health	1	29,545.00
National Oceanic Atmospheric Administration	1	190,281.00
National Science Foundation	18	6,912,372.00
U. S. Department of the Army	4	1,731,080.00
U.S. Department of Commerce	2	325,000.00
U.S. Department of Defense	1	195,063.00
U.S. Department of Education	7	12,156,897.00
U.S. Department of Energy	1	87,500.00
U.S. Department of Health and Human Services	14	5,792,858.00
U.S. Department of Homeland Security	3	721,933.00
U.S. Environmental Protection Agency	1	399,070.00
U.S. Small Business Administration	1	273,150.00
<b>TOTAL FEDERAL</b>	<b>57</b>	<b>29,081,749</b>
<b>TOTAL STATE AGENCIES</b>	<b>23</b>	<b>1,677,683.60</b>
<b>TOTAL FOUNDATIONS/CORPORATIONS</b>	<b>26</b>	<b>2,811,923.00</b>
<b>TOTAL NON-PROFIT AGENCIES</b>	<b>1</b>	<b>4,000.00</b>
<b>GRAND TOTAL</b>	<b>107</b>	<b>33,575,355.60</b>



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# Funding Sources FY 2015 - 2016

FUNDING SOURCES	COUNT	TOTAL
Office of the President	6	10,575,776
Division of Academic and Student Affairs	4	1,450,572.00
Division of Institutional Advancement	2	336,690.00
Division of Research and Federal Relations	2	749,273.00
Division of Information Technology	1	1,500,000.00
College of Business	3	376,950.00
College of Education & Human Development	13	1,367,798.00
College of Liberal Arts	4	116,740.00
College of Public Service	4	132,233.00
College of Science, Engineering and Technology	58	13,815,295.60
School of Journalism and Media Studies	1	127,621.00
School of Public Health	9	3,026,407.00
<b>TOTAL</b>	<b>107</b>	<b>\$33,575,355.60</b>



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# Research Focus Areas

## Computational and Data Enabled Science and Engineering

- Phase II CREST Interdisciplinary Nanotoxicity Center - \$1,000,000 (NSF)
- MRI Development of Advanced Visualization Instrumentation for the Collaborative Exploration of Big Data - \$219,273 (NSF)
- Geant4 Development for Space Radiation Protection and Astronaut Health Applications - \$192,000 (USM)
- Entergy Reclose Diagram Program, Relay Settings and Database - \$170,000 (Entergy)
- Development of Technology to Treat Heavy Metal Containing Residue from Metal Pickling - \$162,675 (Shenzhen Tsinghua University)



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# Research Focus Areas

## 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 (U.S. Defense Intelligence Agency)
- Massie Chair - \$87,500 (U.S. Department of Energy)



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# Research Focus Areas

## Environmental Science, Civil and Environmental Engineering

- RCMI - Center for Environmental Health - \$2,145,952 (NIH)
- Enhancement of the Emergency Management Technology Program at JSU - \$388,663 (U.S. Department of Homeland Security)
- Regional Ecosystem Approach for Conservation -\$250,000 (U.S. Department of Commerce)
- DHS S & T Coastal Resilience Center of Excellence - \$183,270 (U.S. Department of Homeland Security)
- Center of Excellence Analysis and Response for Coastal Hazards - \$150,000 (U.S. Department of Homeland Security)



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# Research Focus Areas

## Public Health, Health Sciences and Health Disparities

- Eliminating Health Disparities through Multi-Trans-Disciplinary Approaches - \$1,040,618 (NIH/NHLBI)
- Graduate Training and Education Center (GTEC)- \$798,639 (NIH/NHLBI)
- Project Access - \$245,967 (U.S. Department of Education)
- Mid-South Transdisciplinary Collaborative Center for Health Disparities Research - \$177,993 (NIH)



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# Research Focus Areas

## Social Work, Community Engagement and Outreach

- Community Education and Outreach Core (CORC) – \$662,565 (NIH/NHLBI)
- Substance Awareness Mental Health Project (SAMHP) - \$331,690 (Mississippi Department of Mental Health)
- Call Me Mister Program - \$265,000 (W. K. Kellogg Foundation)
- Career Pathways Initiative - \$150,000 (United Negro College Fund)
- Community Service Grant Award - \$127,621 (Corporation of Public Broadcasting)



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# Research Focus Areas

## CyberLearning, Education, STEM Education and Workforce Development

- Historically Black Colleges and Universities Program - \$6,720,270 (U.S. Department of Education)
- First In The World Integrated STEM Experiences for All - \$2,988,707 (U. S. Department of Education)
- Historically Black Graduate Institute (HBGI) - \$1,907,384 (U.S. Department of Education)
- Science, Technology, Engineering and Mathematics Scholars Teacher Academy Residency System (STEM STARS) - \$1,748,124 (NSF)
- HBCU-RISE: Research and Educational Infrastructure for the Chemical Design of Advanced Carbon Nanomaterial Based Quantum Dots for Bio Imaging - \$999,995 (NSF)



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# Research Focus Areas

## Materials Science and Engineering and Nanoscale Science and Technology

- Partnerships for Research and Education in Materials (PREM) - \$600,000 (NSF)
- MRI Acquisition of Multi-Beam SEM/SIB Multidisciplinary Materials Study and Training - \$559,660 (NSF)



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# Research Focus Areas

## Innovation, Entrepreneurship, Economic and Small Business Development

- IP Sites: HBCUs - \$1,200,000 (Bill & Melinda Gates Foundation)
- NSF Innovation Corps Site - \$300,000 (NSF)
- Small Business Development Center - \$273,150 (U.S. Small Business Administration)
- NSF Innovation Corps L Program - \$50,000 (NSF)



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# Research Focus Areas

## Globalization

- Curriculum Internationalization and Strengthening Study Abroad - \$94,572 (U.S. Department of Education)



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# Research Excellence

- The Center of Excellence in Minority Health and Health Disparities/ Institute of Epidemiology and Health Services Research in the School of Public Health (Initiative) hosted the 15<sup>th</sup> Annual Eliminating Health Disparities Conference focused on TEHealth.
- The RCMI-Center for Environmental Health hosted the 12<sup>th</sup> Annual International Symposium on Environmental Health Research. Twenty-two (22) nations were represented at the Symposium.
- Dr. William McHenry, Director of the Mississippi e-Center @JSU and professor of Chemistry, chaired the 25<sup>th</sup> Annual LSAMP Research Symposium held in Washington, DC. The Symposium had approximately 700 participants, including representatives from the National Science Foundation.



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# Innovation, Invention and Entrepreneurship

- JSU received thirteen (13) invention disclosures; an eighty-five percent increase over last fiscal year.
- JSU has four (4) pending patents with the United States Patent and Trademark Office.
- A team of JSU students and a faculty member developed a thermometer foot device that monitors the foot temperature of diabetic patients.
- JSU was awarded a National Science Foundation Innovation Corps Site to assist faculty and student teams in commercializing their research projects.



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# Scholarly Engagement

- The Center for University Scholars trained eighteen (18) scholars as part of the fourth cohort of the Academy for Research and Scholarly Engagement.
- This fiscal year, the Academy for Research and Scholarly Engagement scholars submitted thirteen (13) proposals with five (5) proposals being prepared for submission.
- The Center for University Scholars supported a total of ninety-nine (99) faculty members to attend sixty-one (61) conferences.
- The Center for University Scholars supported seventy-one (71) semester-long Graduate Assistantships.



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## Visibility

- The Division of Research and Federal Relations made scheduled trips to Washington, DC to visit with congressional delegates and agencies.
- Agencies and companies that visited JSU included: U. S. Department of Housing and Urban Development, U.S. Department of Education, Clarkson Aerospace Corporation, and the National Science Foundation.
- The Division facilitated the College of Education and Human Development's visit to Washington, DC to discuss the Call Me Mister program with the U. S. Department of Education and Congressman Bennie G. Thompson.
- The Division of Research and Federal Relations assisted the School of Journalism and Media Studies with securing Commissioner Mignon Clyburn as a guest speaker for the SJMS conference.



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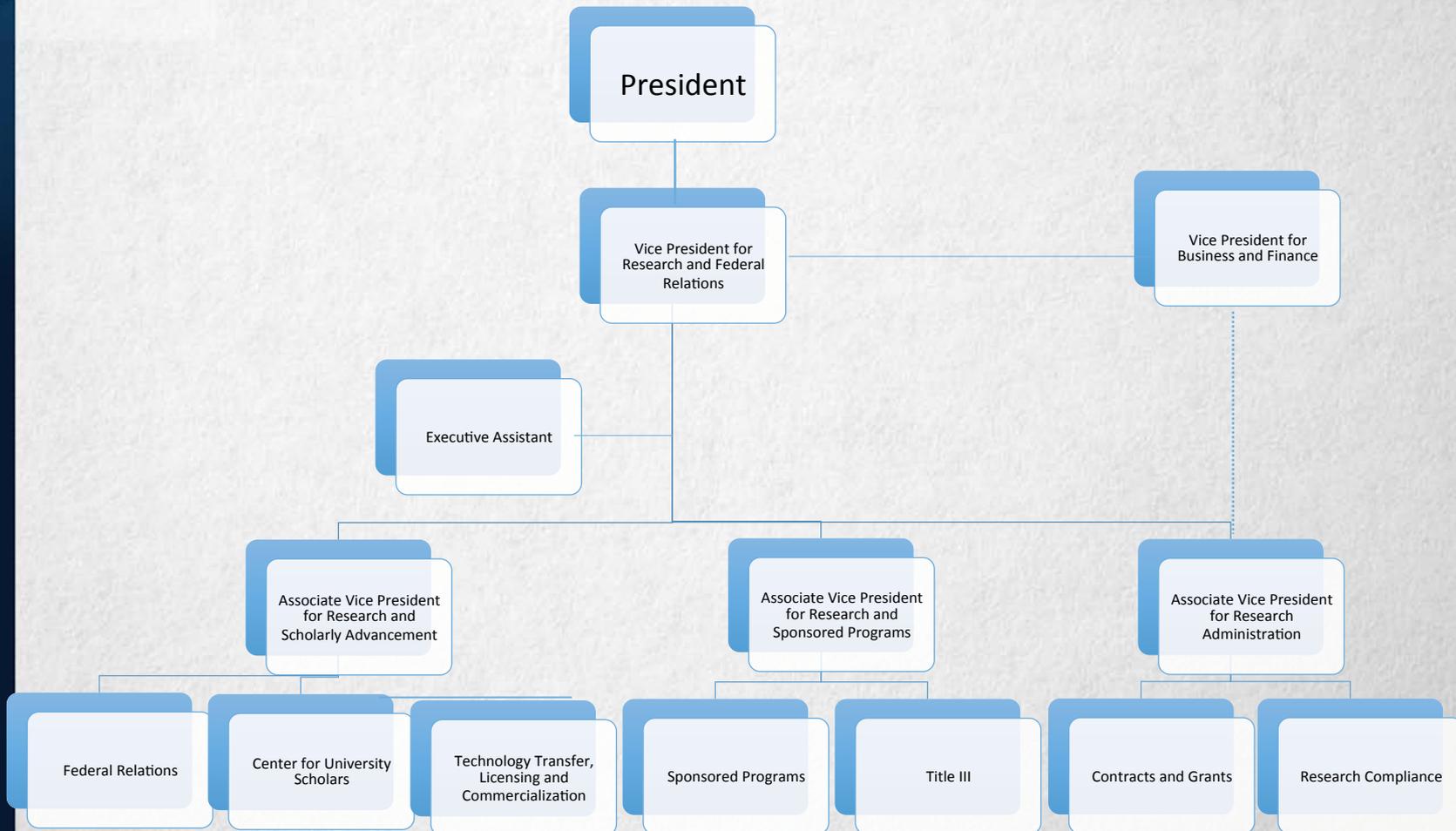
# Visibility

- The Division of Research and Federal Relations facilitated the travel of Dr. Jerzy Lesczcsynki to the EPSCoR /IDeA Annual Conference in Washington, DC (Feb. 29 – March 1, 2016). Lunch was arranged with congressional staffers for Senator Thad Cochran, Congressman Thompson, Congressman Palazzo, and Congressman Trent Kelly.
- Members of the JSU federal relations team attended the 2015 Tunica Mississippi Policy Conference - August 6, 2015.
- JSU Researcher, Dr. Francis Tuluri served on the 2015 National HBCU Week Conference “The Equity and Access in STEM: P-20 Educational Opportunities at HBCUs” panel.
- The Division of Research and Federal Relations worked with JSU cabinet members and academic deans to develop legislative priorities.



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# Org Chart





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# Accountability

- The Division of Research and Federal Relations realigned the Sponsored Programs Unit. The Associate Vice President for Research and Sponsored Programs now provides day-to-day oversight over the pre-award services.
- All grant accountants are effectively utilizing the electronic labor redistribution system in the Time and Effort Module.
- All grant accountants are effectively reviewing and processing electronic PAFs. The vast majority is processed within 24-28 hours after it arrives in the queue of the grant accountant.
- The Division of Research and Federal Relations, through its Grants and Contracts Unit, managed over 250 restricted fund accounts during the last fiscal year.
- The Division of Research and Federal Relations has provided Time and Effort Certification system training to all colleges.
- The Division of Research and Federal Relations has over \$60 million in research expenditures.



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# Transparency and Compliance

- The Institutional Review Board (IRB) has reviewed 247 applications ( 41 exempt; 197 expedited; and 7 full reviews).
- The Division employs a comprehensive compliance-training program that meets federal mandates.
- Mississippi Department of Health reaffirmed JSU's Radioactive Materials license in 2015.
- Office of Human Research Protection (OHRPP) IACUC and IRB Assurances were renewed.
- JSU now has three Certified Institutional Review Board (IRB) Managers.



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## 2016 – 2017 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.
- The Division will promote innovation, academic entrepreneurship, and scholarly engagement in order to increase research and development.
- The Division will 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.
- The Division will 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.
- The Division will improve the research infrastructure to ensure efficient and effective pre-award and post award activities.
- The Division will ensure compliance with university, state, federal, and agency regulations and improve organizational efficiency.