



2023 TSUS ANNUAL RESEARCH REPORT



About TSUS

Research operations at Texas State University System's four-year universities are catalysts for discovery and innovation. As part of a fast-growing system, Lamar University, Sam Houston State University, Sul Ross State University and Texas State University are at the forefront of new ideas and discoveries that respond to today's scientific, environmental and societal challenges.

These institutions are building upon existing frameworks of academic excellence in learning, teaching and research. They are focused on fostering an environment of creativity and collaboration where student scholars, faculty researchers and industry partners generate solutions-based research relevant to a 21st century economy.



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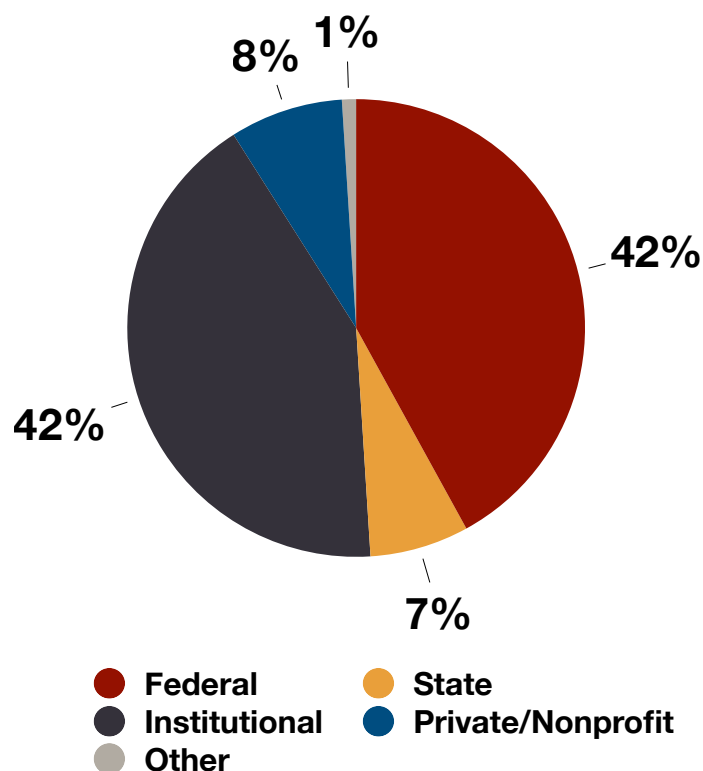
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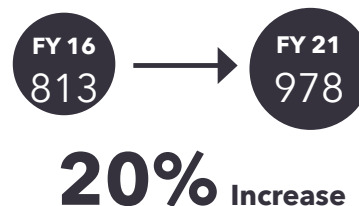
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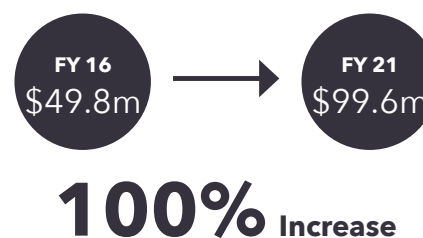
FY 2021 Expenditures by Source



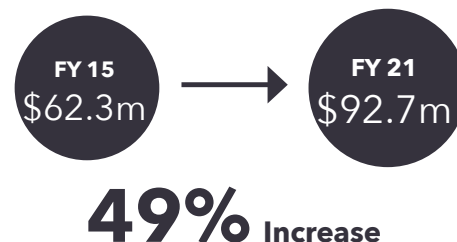
Proposals Submitted



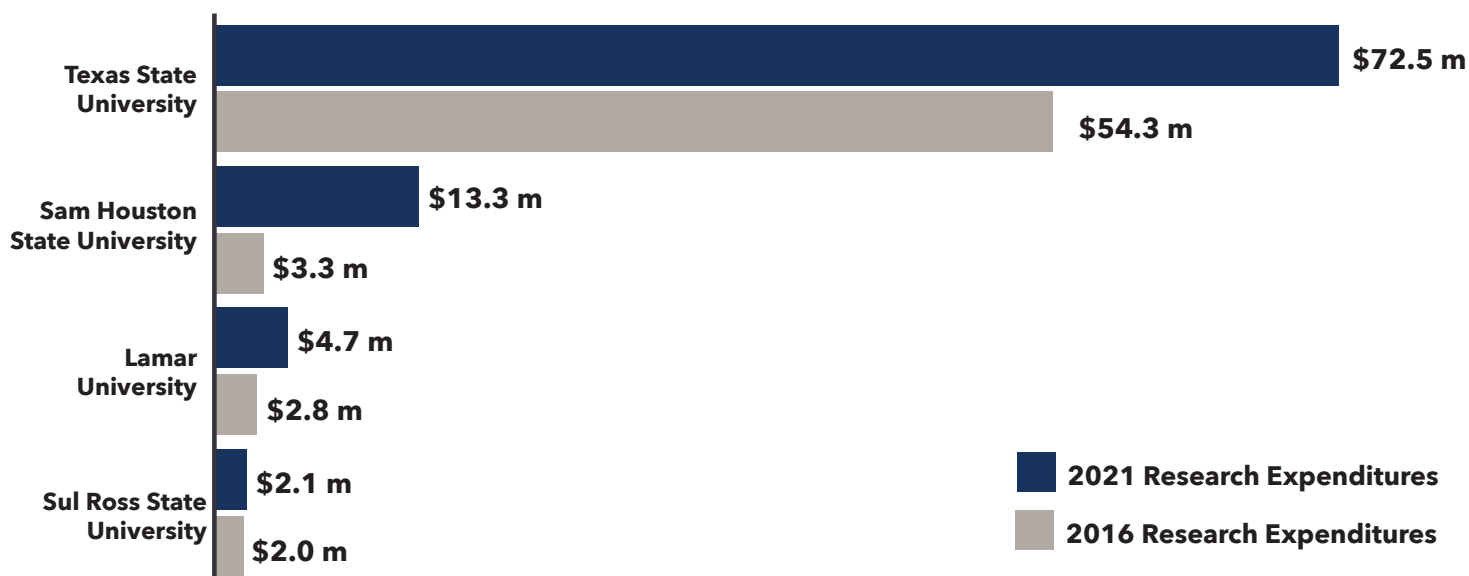
Funding Awarded



Research Expenditures



Research Expenditures by University



Field Laboratories for Flood Mitigation and Air Pollution Under Changing Climate



Dr. Liv Haselbach

In collaboration with The University of Texas-Austin, Oak Ridge National Laboratory, Texas A&M University - College Station and Prairie View A&M University, Lamar University received a \$5M grant, led by the Center for Resiliency Director Dr. Liv Haselbach, from the Department of Energy as part of a \$17M award to investigate the impact of climate change on America's urban communities. The project, titled "Southeast Texas Urban Integrated Field Laboratories: Equitable Solutions for Communities Caught between Floods and Air Pollution," will provide quantitative understanding on projected climate impacts across Southeast Texas in a way that is generalizable to other regions and improve the practice of resilience science and community resilience. The 5-year program will coordinate among

disciplines and community stakeholders to study the interactions among natural, human-built, and social systems under the impact of climate change; and to better understand the interdependencies and the social equity in urbanized regions. The Beaumont-Port Arthur area represents the climate adaptation needs, population diversity and vulnerability, and ecological richness that characterize many urban centers along the Gulf Coast of Mexico, which is the ideal testbed for this work.

Understanding the Ionic Currents in the Upper Atmosphere



Dr. Evgeny Romashets

Dr. Evgeny Romashets, Instructor of Physics, received a \$220K grant from the National Science Foundation's Coupling, Energetics and Dynamics of Atmospheric Regions (CEDAR) program to study the current dynamics in the ionosphere stretching from 50 to 400 miles above Earth's surface. The observational and modeling data that describe what's happening in the ionosphere had been lacking because of the cost and challenges in making measurements as well as the knowledge gaps at this altitude of the atmosphere. The research is anticipated to provide the theoretical basis for the limited observational data and reduce the uncertainty in numerical simulations of ionospheric currents.

Rotational Dynamics of PFOAs



Dr. Sylvestre Twagirayezu

Dr. Sylvestre Twagirayezu, Associate Professor of Chemistry, was awarded \$250K funding from the National Science Foundation to study the correlations between perfluorooctanoic acid (PFOAs) toxicity and its helical chirality. The study seeks to advance the understanding of rotational dynamics on complex organic systems to address the fate and impacts of a special group of emerging pollutants in the environment. As a known carcinogen, it is essential to elucidate the molecular behavior of PFOAs to allow development of mitigation approaches.



Regional Incubator for Future Nursing Faculty



Dr. Ruthie Robinson

Dr. Ruthie Robinson, Associate Professor of Nursing, received a \$607K grant from the Department of Health and Human Services to support students who pursue degrees in nursing education. This grant is anticipated to help address the nursing shortage in the State of Texas and in the Nation by growing future nursing faculty.

Accelerating Credentials through Data Analytics



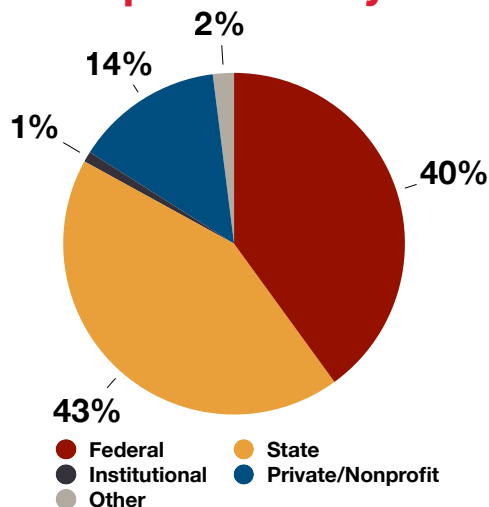
Dr. Kakoli Bandyopadhyay

Dr. Kakoli Bandyopadhyay, Professor of Management Information Systems, received a \$420K grant from the Texas Higher Education Coordinating Board (THECB) to develop new educational programs for addressing the shortage of data analytics workforce in the State of Texas. This project delivers educational products that prepare next-generation data analysts who play a critical role in regional and national economic development.

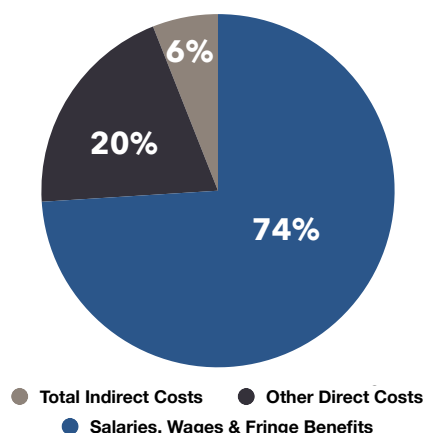




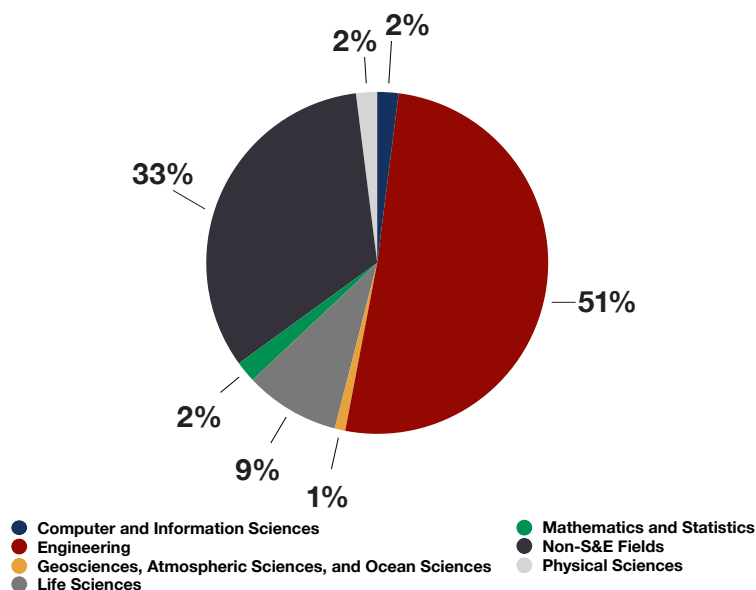
FY 2021 Expenditures by Source



FY 2021 Types of Costs



FY 2021 Fields of Research



University Research Centers

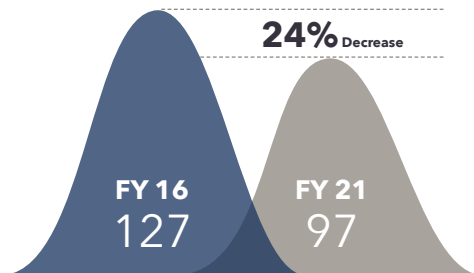
- ★ Center for Advances in Port Management
- ★ Center for Advances in Water and Air Quality
- ★ Center for Midstream Management and Science
- ★ Center for Resiliency
- ★ Small Business Development Center - Lamar University
- ★ Texas Air Research Center
- ★ Texas Hazardous Waste Research Center
- ★ Texas Manufacturing Assistance Center - SE Texas

Funding Sources

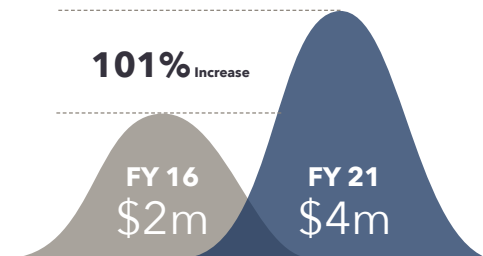
- ★ Academic Partnership
- ★ American Bureau of Shipping
- ★ Arkema Inc.
- ★ Biomedical Research Lab
- ★ Dr. Tu's Dental Clinic
- ★ Economic Development Administration (EDA)
- ★ Environmental Protection Agency
- ★ Health Resources and Services Administration (HRSA)
- ★ National Aeronautics and Space Administration
- ★ National Institute of Standards and Technology (NIST)
- ★ National Oceanic and Atmospheric Administration (NOAA)
- ★ National Science Foundation
- ★ Small Business Administration (SBA)
- ★ Southeast Texas Regional Planning Commission
- ★ Texas General Land Office
- ★ Tubal-Cain Industries, Inc.
- ★ U.S. Department of Agriculture
- ★ U.S. Department of Commerce (EDA, NIST, NOAA, SBA)
- ★ U.S. Department of Education
- ★ U.S. Department of Energy



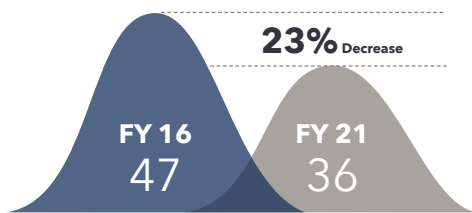
Proposals Submitted



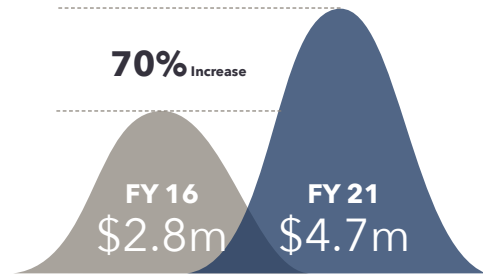
Funding Awarded



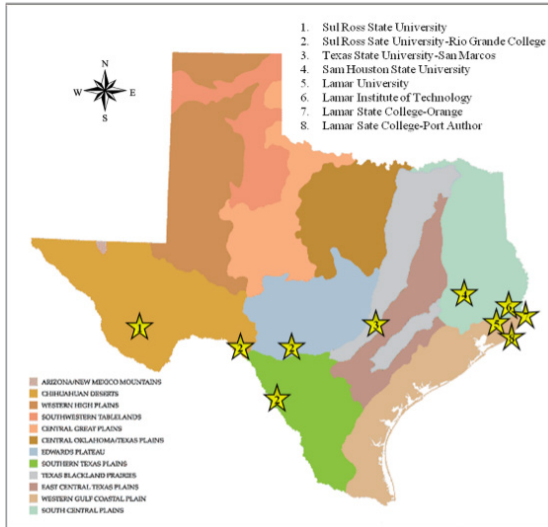
Proposals Funded



Research Expenditures



SHSU Contributes to the wellbeing of the Texas Agricultural Sector through Invasive Species Research & Sustainable Agriculture Education



Texas Invasive Species Institute

The Texas Invasive Species Institute (TISI) is the first comprehensive effort in Texas that is focused on research and coordinating the effective early detection and rapid response to multiple new invasive species that currently impact, or have the potential to impact, ecosystems and produce major economic effects.

Texas is at the geographic crossroads of the movement and/or introduction of invasive species, primarily due to its major maritime and land-based ports of entry, corridors between states, as well as major trucking routes and long border with Mexico. The impact of these species is far-reaching, including threatening the nation's food supply, destroying infrastructure, destroying natural resources, reducing water supplies, and jeopardizing homeland security.

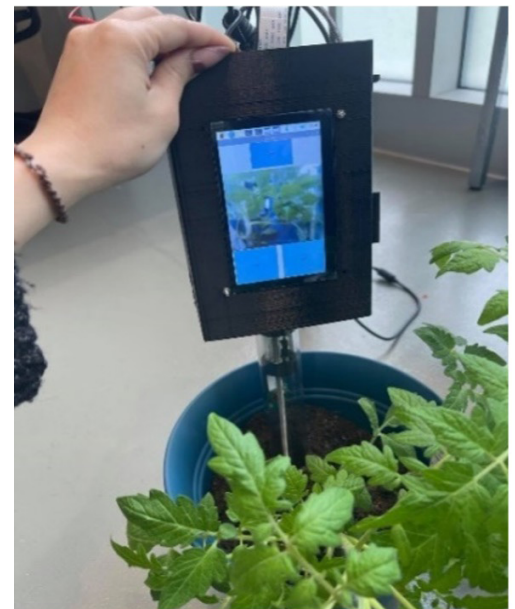
The TISI is headquartered at SHSU and was established in 2011 to aid in the prevention and/or establishment and spread of invasive species in Texas through early detection, rapid response, and educational/outreach programs. The TISI relies on the expertise of over 30 taxonomists and ecologists representing universities of the Texas State University System.

The TISI is currently funded through the United State Department of Agriculture (USDA) Animal and Plant Health Inspection Service (APHIS) for pest surveys of Texas small grain crops, pests of national concern in the east Texas Piney Woods, Palm Cixiid (pest to palms and related plants), soil nematodes that threaten Texas agriculture efforts, and invasive mollusks that is known to transmit pathogenic lungworms. The TISI also has USDA funded education and outreach programs aimed educating the public and stakeholders on the threat of invasive species to Texas, methods for identifying pests of national concern, reporting sightings, and tools for preventing the introduction and spread of invasive species in Texas.

School of Agricultural Sciences

The increasing population in Texas will have true impacts on availability of water and land for agriculture. These impacts may tax the food-production systems of Texas weakening the economic benefits of the agricultural sector for the state. Sustainable agricultural practices are one tool for mitigating negative consequences of population growth on the agricultural industry. With funding through the USDA, The School of Agricultural Sciences at SHSU has partnered with the TISI to help develop innovative approaches to the early detection and mitigation of economically important crop pests and integrated projects designed to enhance sustainable agricultural education through research-based pedagogical practices. The research projects are specifically aimed at improving the future Texas agricultural best practices through improved trapping and monitoring technologies that can be utilized by the USDA and growers across the nation.

The increasing population in Texas will have true impacts on availability of water and land for agriculture. These impacts may tax the food-production systems of Texas



weakening the economic benefits of the agricultural sector for the state. Sustainable agricultural practices are one tool for mitigating negative consequences of population growth on the agricultural industry. With funding from the USDA, The School of Agricultural Sciences at Sam Houston State University has partnered with Middle Tennessee State University and Texas A&M University to develop an integrated project that enhances sustainable agricultural education through research-based pedagogical practices. The program is aimed at educating the future Texas agricultural workforce in a number of sustainable agricultural techniques (cover cropping, conservation tillage, and diversified forage production systems) by engaging the students in a hands-on practical science curriculum. The long-term vision of the program is to impact Texas agriculture by teaching sustainable methods for profitable crop and animal production while improving soil quality and soil health on Texas agricultural lands.

The SHSU academic community is uniting their skills and efforts to help increase the number of fully vaccinated people in Texas



College of Arts and Media, College of Education, College of Humanities and Social Sciences, College of Health Sciences and College of Osteopathic Medicine

Through a statewide vaccine outreach and education grant from The Texas Department of State Health Services, SHSU researchers have implemented a three-year initiative designed to develop a statewide vaccine education and outreach program. This program focuses on particularly vulnerable and hard-to-reach communities and is designed to improve public understanding of vaccine availability/effectiveness to increase vaccination confidence among Texans.

SHSU Contributes to wellbeing of Texas Teachers and School Children with Disabilities

College of Education - Eleanor & Charles Garrett Center on Transition and Disability Studies

The successful transition of students with disabilities begins early in the students' academic career and involves important planning and identification of outcomes to assure the students have essential education and skills needed to transition successfully into postsecondary education and employment. With funding from the Texas Education Agency, the SHSU Eleanor & Charles Garrett Center on Transition and Disability Studies has partnered with 20 regional Education Service Centers, 2 universities, and other nationally recognized experts in transition to develop and implement a statewide system to assist the state of Texas in providing transition evidence-based practices from birth to adulthood. This model will be administered and evaluated in Texas schools and will be designed to build collaborative infrastructures among students, families, schools, districts, and communities to equip all students with disabilities to be actively involved planning, communicating, and evaluating progress to meet their transitional goals from early childhood through high school graduation and post-secondary readiness.



The goals for the project are: (1) to see 80% of Texas students with disabilities demonstrate -advocacy and self-determination in establishing transition goals and become actively involved in planning, communicating, and evaluating progress to meet their transition goals, and (2) to have 90% of parents and families report that they received meaningful and appropriate supports that facilitated their child's specific needs.

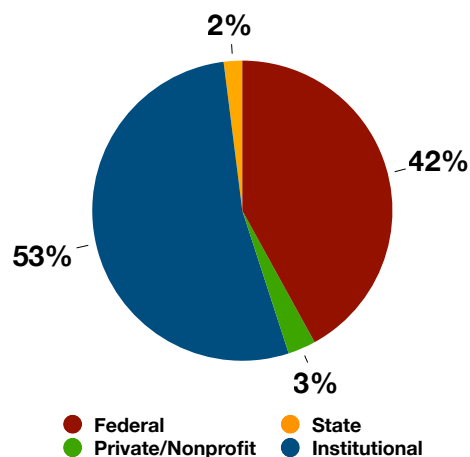
The School of Teaching and Learning

Autism Spectrum Disorder (ASD) can impact the success of a child's educational experience and impact the broader teaching environment. To foster the educational development of the ADS student and maintain a conducive learning environment for all students, teachers must have appropriate training to successfully meet a diverse array of student needs.

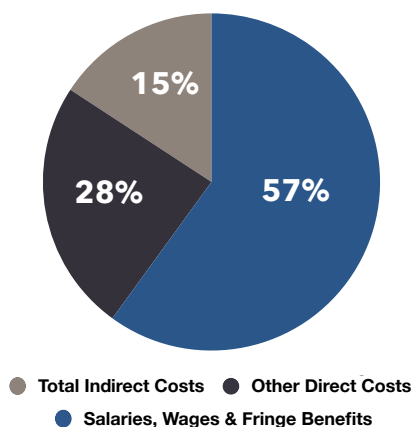
With funding from The Texas Education Agency, The School of Teaching and Learning at SHSU has developed a statewide professional development model for classroom teachers of children with ADS. This model is designed to equip classroom teachers with evidence-based practices to conduct a behavior analysis and provide intervention strategies for students with ASD. The evidence-based practices are designed to address behaviors that prevent the student from participating in the least restrictive environment, from benefiting from instruction, that impede social relationships, and/or become barriers to participation in postsecondary education or employment following completion of high school. The statewide training model is designed to improve and expand the treatment for children of all ages, with ASD, in each school district in Texas.



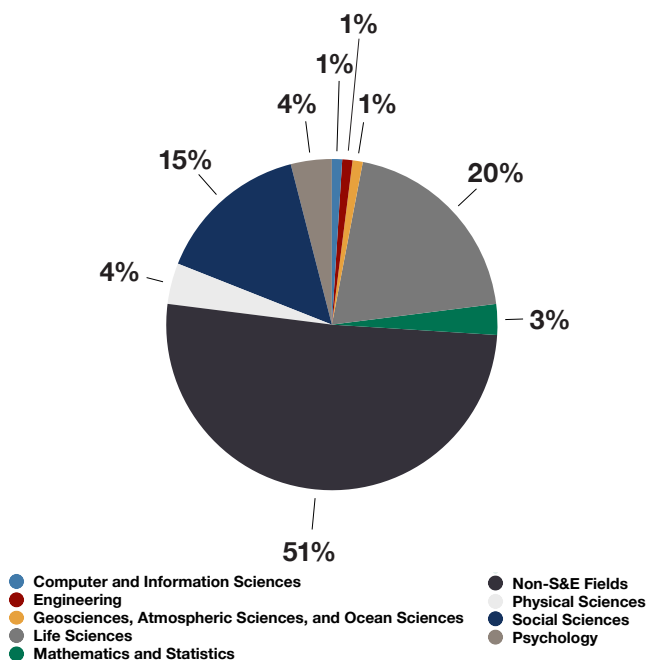
FY 2021 Expenditures by Source



FY 2021 Types of Costs



FY 2021 Fields of Research



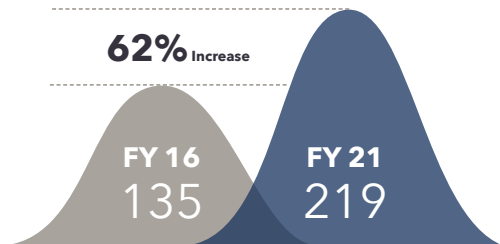
University Research Centers

- ★ Center for Innovation and Entrepreneurship
- ★ Cyber Forensics Intelligence Center
- ★ Geospatial Research and Service Center
- ★ Institute of Homeland Security
- ★ Sam Houston State Natural History Collections
- ★ Southeast Texas Applied Forensic Sciences Facility (STAFS)
- ★ STEM Center
- ★ Texas Research Institute for Environmental Studies (TRIES)

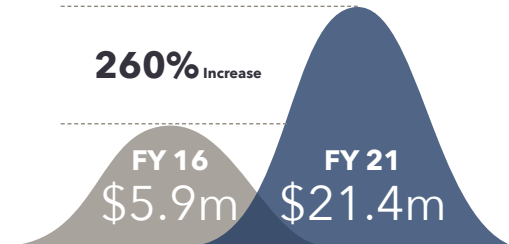
Funding Sources

- ★ American Association of the History of Nursing (AAHN)
- ★ CreateAbility Concepts, Inc.
- ★ Florida Gulf Coast University
- ★ Forensic Sciences Foundation
- ★ Jerry M. Lewis M.D. Mental Health Research Foundation
- ★ Mathematical Association of America
- ★ National Aeronautics and Space Administration
- ★ National Institutes of Health
- ★ National Institute of Justice
- ★ National Science Foundation
- ★ NIH flow-through Gallaudet University
- ★ University of North Texas Health Science Center
- ★ U.S. Department of Agriculture
- ★ U.S. Department of Defense
- ★ U.S. Department of Education
- ★ U.S. Department of Energy
- ★ U.S. Department of Health and Human Services
- ★ U.S. Department of Justice

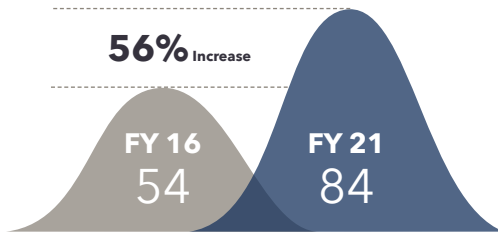
Proposals Submitted



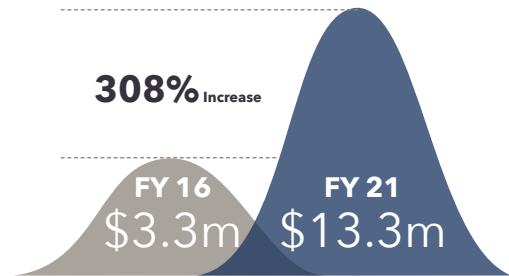
Funding Awarded



Proposals Funded



Research Expenditures



Promoting Restorative and Integrative Mental Health (PRISM)

The PRISM project funded by the American Psychological Association is targeted to engage students in psychology research in mental health. The first goal is to implement and systematize Study Abroad and Student Exchange programs for students to reach a level of integration personifying the strengths of their own culture, as well as seeing the beneficial cultural elements of others. The second goal is to learn how to actively and compassionately support the unique, intersectionally lived experiences of students, targeting context and trauma determinants that shape socially and culturally informed support. Research student assistants are currently writing the protocols that will frame and implement these support structures in a digitally interactive format. Dr. Alicia Trotman (SRSU) and Dr. Tiffany Culver (Schreiner University), the Principal Investigators, will continue evaluating the effectiveness in recruiting and retaining Hispanic students in psychology research as well as the capacity of the institution as a restorative and integrative resource providing aid to communities in distress.



Evaluating Barrier Permeability and Highway Crossing Locations of Pronghorn in a Key Restoration Area Bisected by la Entrada al Pacifico Trade Corridor

In 2010, the Texas Parks and Wildlife Department (TPWD), the Borderlands Research Institute (BRI), private landowners, and numerous stakeholders partnered to initiate an ongoing, large scale restoration of pronghorn populations in the area. These efforts have produced population increases in priority restoration areas and an appreciable body of research, as populations were monitored following release using GPS telemetry. Recently developed

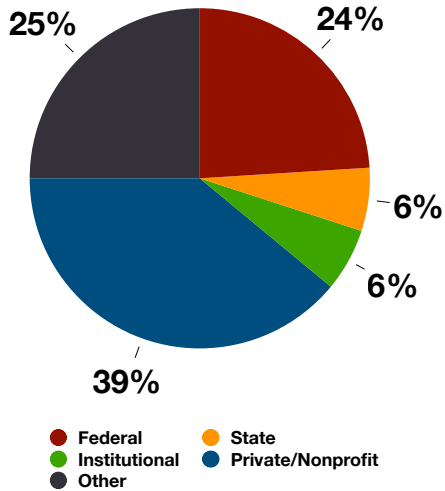
mechanistic movement models, called integrated step selection functions, can be adapted to examine the effects of linear barriers, such as roadways and fences, on pronghorn movement. Earlier this year, BRI and TPWD partnered with the Texas Department of Transportation to expand these models to identify the effects of transportation infrastructure on pronghorn movements and distribution in the Marfa Plateau restoration area, which is bisected by the planned Entrada al Pacifico trade corridor expansion of US-67. The results of this work will provide the guidance needed to both facilitate pronghorn movement and survival on the Marfa Plateau, and reduce risks to motorists traveling across it.

Noyce Scholars en la Frontera

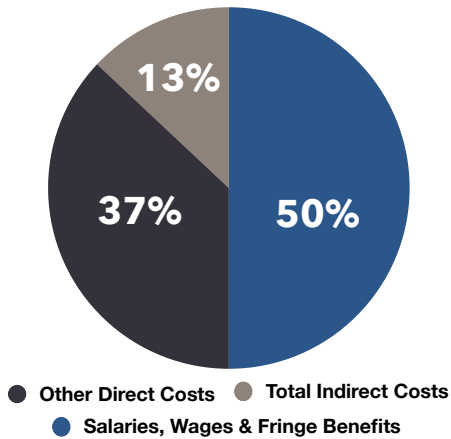
The Noyce Scholars en la Frontera program funded by the National Science Foundation seeks to improve the quality of STEM instruction by increasing the number of biology, geology, and mathematics majors becoming highly qualified middle school or high school teachers. The program includes an education research based mentoring approach incorporating culturally responsive teaching and best digital literacy approaches. Currently, the program has 7 scholars (3 biology and 4 mathematics majors) and 6 mentors. The program has partnered with the Science Mill to utilize a mobile makerspace program to incorporate tactile technologies for STEM in the Noyce Scholars and other SRSU programs. Events during academic year 2022-2023 included the Caving Across STEM Summer Camp, Science of STEM Literacy Conference at Southwest Texas Junior College, Noyce Institute in Uvalde, and Noyce Celebration in Del Rio. Further, during academic year 2022-2023, Dr. Jennifer Miller-Ray, the Principal Investigator, published a peer reviewed paper with a Noyce graduate research assistant and 4 Noyce scholars displayed 3 peer reviewed poster presentations as well as gave 4 peer reviewed oral presentations.



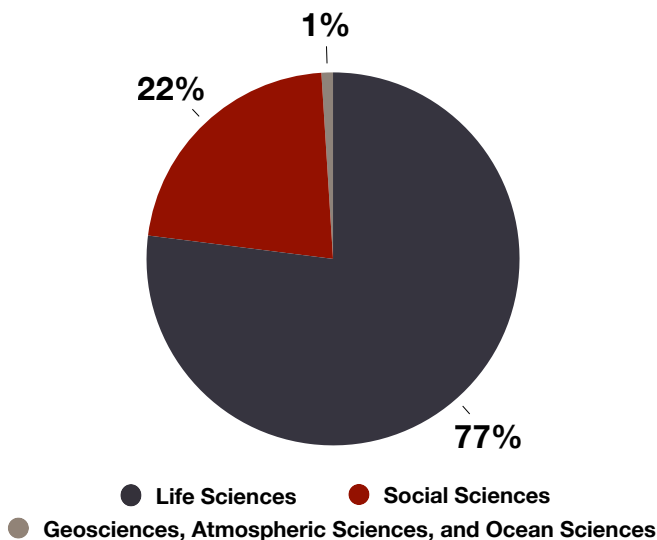
FY 2021 Expenditures by Source



FY 2021 Types of Costs



FY 2021 Fields of Research



University Research Centers

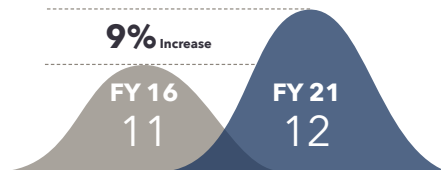
- ★ Borderlands Research Institute
- ★ Center for Big Bend Studies
- ★ Rio Grande Research Center
- ★ La Frontera Research Initiative for STEM Education

Funding Sources

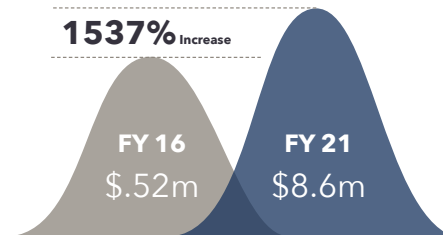
- ★ American Bird Conservancy
- ★ American Chemical Society
- ★ George & Cynthia Mitchell Foundation
- ★ National Park Service
- ★ National Science Foundation
- ★ Texas Department of Transportation
- ★ Texas Parks & Wildlife
- ★ Trans Pecos Water & Land Trust
- ★ U.S. Bureau of Land Management
- ★ U.S. Department of Agriculture
- ★ U.S. Department of Defense
- ★ U.S. Department of Education
- ★ U.S. Fish and Wildlife Service
- ★ Welch Foundation
- ★ World Wildlife Fund



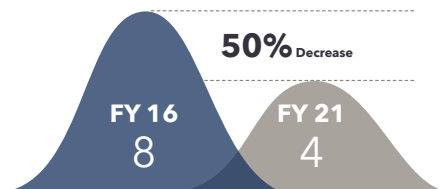
Proposals Submitted



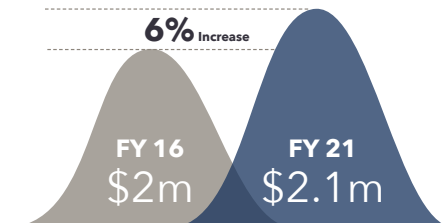
Funding Awarded



Proposals Funded



Research Expenditures





Texas State Named University Transportation Center by U.S. Department of Transportation

Texas State faculty secured funding from the U.S. Department of Transportation for establishing prestigious Tier 1 University Transportation Centers (UTCs) that will equip the next generation of transportation professionals to make roads, bridges, rail, shipping, and airspace more innovative, efficient, and safe. Dr. Stacey Kulesza (Ingram School of Engineering) will lead the effort to improve the durability and longevity of coastal multimodal transportation infrastructure.

Texas State will receive \$10 million for this research center, the first of its kind at the University. Also, Dr. Tiankai Wang (Department of Health Information Management) will represent Texas State in this center focused on the research priority of preserving the environment. Texas State will receive \$1 million for this effort.

TXST Professor Awarded \$2.5 Million for Aquatic Research

The Department of Biology's Dr. Weston Nowlin was awarded approximately \$2.5 million by the U.S. Army Corps of Engineers to continue research on the importance of different factors in determining the abundance and distribution of native and non-native aquatic species to help develop strategies and balance ecological needs with transportation needs.

U.S. Department of Health and Human Services Awarded to TXST Translational Health Research Center \$2 Million

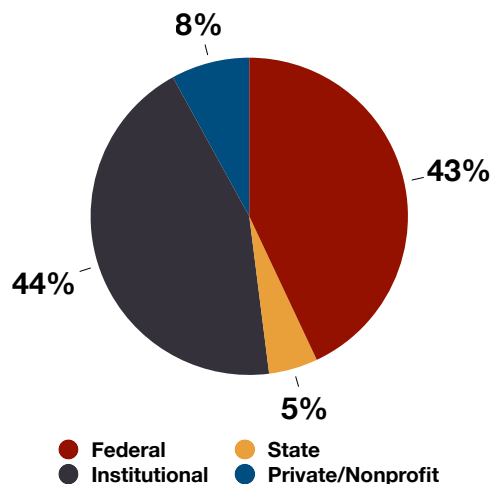
The Translational Health Research Center was awarded \$2 million from the U.S. Department of Health and Human Services to develop a dashboard that will share resources with local mental health service providers and community members to improve mental health through data-driven health tools and services. They also received \$1 million in federal funding in support of a Community Mental Health Surveillance Training Program that will provide cost-effective, on-demand data analytics and visualization training for employees of public and nonprofit mental health service agencies in Austin and Travis County.

Operation Identification

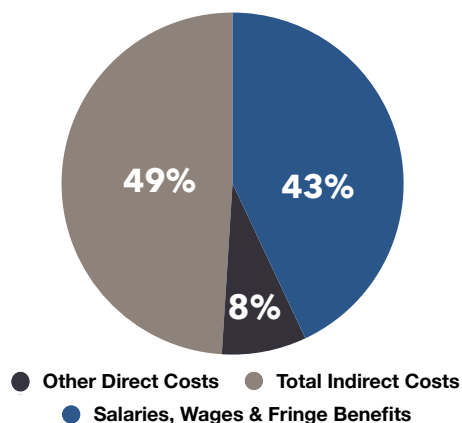
Dr. Kate Spradley, a professor of anthropology with the Forensic Anthropology Center (FACTS) at Texas State University, received a \$1 million grant from the Bureau of Justice Assistance in the U.S. Department of Justice to support Operation ID (OpID), which reports, identifies, and repatriates unidentified migrant remains in Texas border counties. Also, Dr. Alberto Giordano in the Department of Geography and Environmental Studies received approximately \$1 million from the National Science Foundation (NSF) to create an open-access web portal for accounting and reporting of migrant deaths at the U.S.-Mexico border.



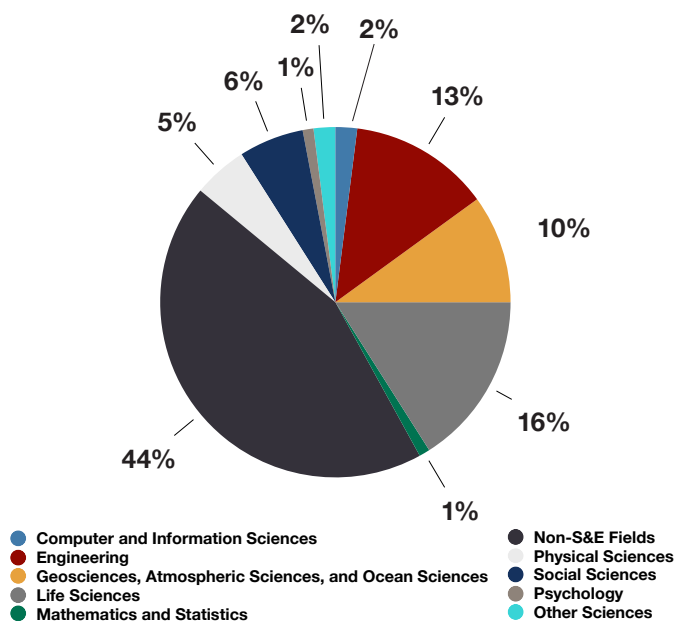
FY 2021 Expenditures by Source



FY 2021 Types of Costs



FY 2021 Fields of Research



University Research Centers

- ★ Center for Innovation and Entrepreneurship
- ★ Freeman Center
- ★ Materials Applications Research Center
- ★ Texas School Safety Center
- ★ The Meadows Center for Water and the Environment
- ★ The Translational Health Research Center
- ★ Xiphophorus Genetic Stock Center

Funding Sources

- ★ Accenture, Inc.
- ★ Advanced Micro Devices
- ★ Albert and Margaret Alkek Foundation
- ★ Amaterra Environmental, Inc.
- ★ America in the World Consortium
- ★ American Council of Learned Societies
- ★ American Institute for Research
- ★ American Mathematical Society
- ★ American Psychological Association American Psychology-Law Society
- ★ Arush K. Angirasa
- ★ AT&T
- ★ Bastrop County
- ★ Baylor University
- ★ Bill & Melinda Gates Foundation
- ★ Blanco-Pedernales Groundwater Conservation District
- ★ BlueTriton Brands
- ★ Boise State University Office of Sponsored Programs
- ★ Bowman Consulting Group, Ltd.
- ★ Braun & Gresham, Attorneys at Law
- ★ Brazos Valley Council of Governments
- ★ Brian J. Schade
- ★ Carolyn E. Boyd
- ★ Case Western Reserve University
- ★ Cheney Crow
- ★ City of Harker Heights
- ★ City of New Braunfels, Texas
- ★ City of San Marcos, Texas

Funding Sources (cont.)

- ★ City of San Marcos, Texas
- ★ Coastal Bend Audubon Society
- ★ Coastal Bend Bays and Estuaries Program
- ★ Cobb Family Foundation
- ★ Council of Graduate Schools
- ★ Cynthia L. Hernandez
- ★ Dell Corporation
- ★ Environmental Protection Agency
- ★ E3 Alliance
- ★ Facebook Technologies, LLC
- ★ FAS Holdings Group, LLC
- ★ Federal Emergency Management Agency U.S. Dept of Homeland Security
- ★ First Solar, Inc.
- ★ Frost Bank - Austin
- ★ Fundación Mundo Sano
- ★ Greater Texas Foundation
- ★ Green Software Foundation
- ★ Gregory Snodgrass
- ★ Guadalupe-Blanco River Authority
- ★ C/O Nathan Pence
- ★ Hays County
- ★ Hays County, Office of Hays County Judge
- ★ Humanities Texas
- ★ Hunt & Hunt, Ltd.
- ★ INSUNG A&T CO., LTD.
- ★ Jacobs Technology, Inc.
- ★ James L. Wittliff
- ★ James S. Gillingham
- ★ Jane Cappe
- ★ Jesse & Betty Luxton Charitable Fund
- ★ Jesse C. Luxton
- ★ Jo A. Webber
- ★ Joanne H. Smith
- ★ Johns Hopkins University Bloomberg School of Public Health
- ★ Justices of the Peace & Constables Association of Texas, Inc.
- ★ Kansas State University Sponsored Programs Accounting
- ★ Korea Petroleum Industries Company
- ★ Kringen Analytics LLC
- ★ Lambda Alpha National Anthropology Honor Society
- ★ Langford Community Management Services Inc.
- ★ Larry S. Kilby
- ★ Lower Rio Grande Valley DCC, Inc.
- ★ Marvin K. Collie
- ★ Meredith L. Dreiss
- ★ Michael C. Padula
- ★ Mississippi State University Sponsored Programs Accounting
- ★ Mitsubishi Electric Corp. Advanced Technology R&D Center
- ★ Nanohmics, Inc.
- ★ National Academy of Sciences NAS-NRC Programs
- ★ National Aeronautics and Space Administration
- ★ National Endowment for the Humanities (NEH)
- ★ National Institute of Justice
- ★ National Institutes of Health
- ★ National Institutes of Health National Cancer Institute
- ★ National Institutes of Health National Institute of General Medical Sciences
- ★ National Institute of Standards and Technology
- ★ National Science Foundation
- ★ Native Prairie Association of Texas
- ★ NEC Corporation of America
- ★ New Mexico Tech
- ★ New York University Grossman School of Medicine
- ★ Northrop Grumman
- ★ Oak Ridge Institute for Science and Education
- ★ Office of Naval Research
- ★ Office of the Governor
- ★ Oklahoma State University
- ★ Other Federal Agencies
- ★ Poinix, Inc.
- ★ Research Foundation
- ★ Rethink Priorities
- ★ Roy B. St John
- ★ Safal Partners, LLC.
- ★ San Diego State University Foundation
- ★ Seoul Institute of Technology (SIT)
- ★ SK Hynix America Inc.

Funding Sources (cont.)

- ★ Society for Personality and Social Psychology, Inc.
- ★ Sonoma Housing Advisors
- ★ Southern Dallas Progress Community Development Corporation
- ★ State Farm Insurance Companies
- ★ Steven A. Beebe
- ★ Stratajam LLC
- ★ Texas A&M University-Corpus Christi
- ★ Texas AgriLife Texas AgriLife
- ★ Texas Commission on Environmental Quality
- ★ Texas Comptroller of Public Accounts
- ★ Texas Department of Family and Protective Services
- ★ Texas Department of Transportation
- ★ Texas Department of Transportation Civil Rights Division
- ★ Texas Department of Transportation Research & Technology
- ★ Texas Department of State Health Services Fiscal Division/Accounts Payable
- ★ Texas General Land Office
- ★ Texas Higher Education Coordinating Board Contract Management Services
- ★ Texas Historical Commission Historic Sites Division
- ★ Texas Instruments, Inc.
- ★ Texas Parks and Wildlife Department
- ★ Texas Parks and Wildlife Department Wildlife Diversity Program
- ★ Texas Parks and Wildlife Department Wildlife Division
- ★ Texas Pioneer Foundation
- ★ Texas Sea Grant College Program Texas A&M
- ★ Texas Search and Rescue (TEXSAR)
- ★ Texas Southern University
- ★ Texas Water Development Board
- ★ Texas Workforce Commission
- ★ The Texas Chapter of the American Fisheries Society
- ★ The University of Texas at Dallas
- ★ Travis County Auditor's Office Patti Smith, CPA
- ★ Tri-M Foundation
- ★ U.S. Agency for International Development
- ★ U.S. Army Corps of Engineers
- ★ U.S. Department of Agriculture
- ★ U.S. Department of Agriculture - NIFA National Institute of Food & Agriculture
- ★ U.S. Department of Agriculture Natural Resources Conservation Service
- ★ U.S. Department of Commerce
- ★ U.S. Department of Defense
- ★ U.S. Department of Defense AF Office of Scientific Research
- ★ U.S. Department of Energy Office of Science CSO
- ★ U.S. Department of Energy
- ★ U.S. Fish & Wildlife Service
- ★ U.S. Food and Drug Administration
- ★ U.S. Department of Health & Human Services Health Resources and Services Administration
- ★ U.S. Department of Health and Human Services Administration for Community Living
- ★ U.S. Department of Health and Human Svcs Administration of Children and Families
- ★ U.S. Department of Homeland Security
- ★ U.S. Department of the Interior
- ★ U.S. Department of Justice
- ★ U.S. Department of Labor
- ★ U.S. Department of Transportation
- ★ U.S. Department of Health and Human Services
- ★ U.S. Department of Interior Bureau of Reclamation
- ★ U.S. Department of Justice Community Oriented Policing Services
- ★ U.S. Department of Labor Occupational Safety and Health Administration
- ★ University of Kansas Center for Research Inc
- ★ University of Michigan Sponsored Programs
- ★ University of Nevada, Las Vegas Office of Sponsored Programs
- ★ University of Texas at Austin
- ★ University of Texas at Austin Steve Hicks School of Social Work
- ★ University of Texas at Austin Texas Space Grant Consortium
- ★ University of Texas at San Antonio Office of Sponsored Programs

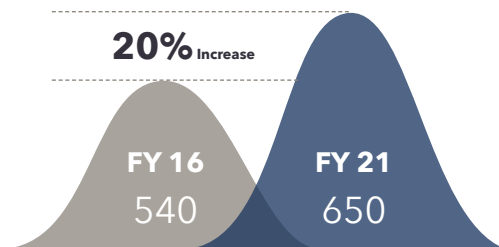
Funding Sources (cont.)

- ★ University of Texas Rio Grande Valley
- ★ USDA Forest Services
- ★ Virginia Polytechnic Institute and State University:
DBA Virginia Tech
- ★ Wayne State University Sponsored Programs

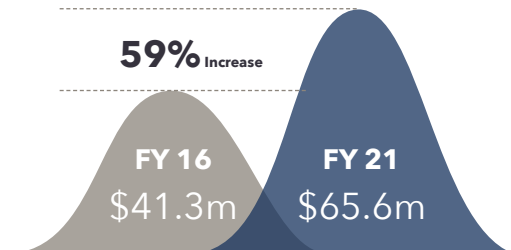
Administration

- ★ WestEd
- ★ William T. Hobson
- ★ Wiss, Janney, Elstner Associates Inc.
- ★ World Leisure Organization

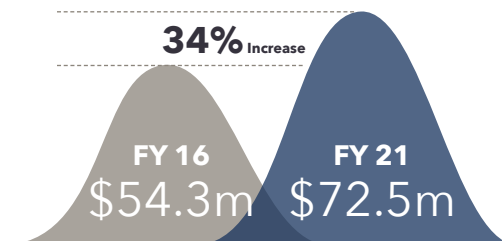
Proposals Submitted



Funding Awarded



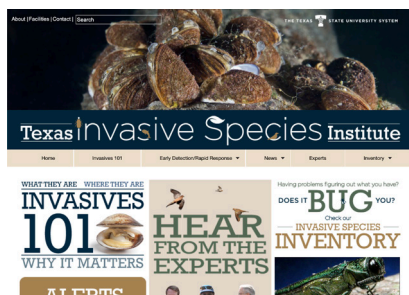
Research Expenditures



TSUS Research

Christmas Mountains

The Christmas Mountains are a small range of mountains next to Big Bend National Park in Brewster County, Texas, United States. The highest peak is 5,728 feet (1,746 m) above sea level. The 9,270 acre tract is owned by the Texas State University System and is open to the public and to academic researchers.



The Texas Invasive Species Institute

The Texas Invasive Species Institute is the first comprehensive effort in Texas focused on the early detection of and rapid response to invasive species that impact ecosystems and the Texas economy. The Institute draws from the expertise of more than 40 researchers across the Texas State University System. This expertise enables TISI to apply effective measures currently lacking in Texas when dealing with detection and rapid response to invasive species.

Normandy Group

Securing such funding for research institutions requires a rigorous and dynamic partnership between universities and the Normandy Group. Each year, researchers and faculty from each TSUS institution come to Washington to build relationships, explore funding opportunities, and eventually successfully pursue federal grants of interest. Similarly, the Normandy team visits TSUS campuses regularly to meet with university leadership, as well as program directors and faculty to better understand the institutions' requisite needs. As part of this process, the Normandy Group also seeks out non-federal sources of funding that may be applicable to a particular research project. Once a funding source has been identified for a particular project, Normandy works to formulate local support as well as Congressional support.



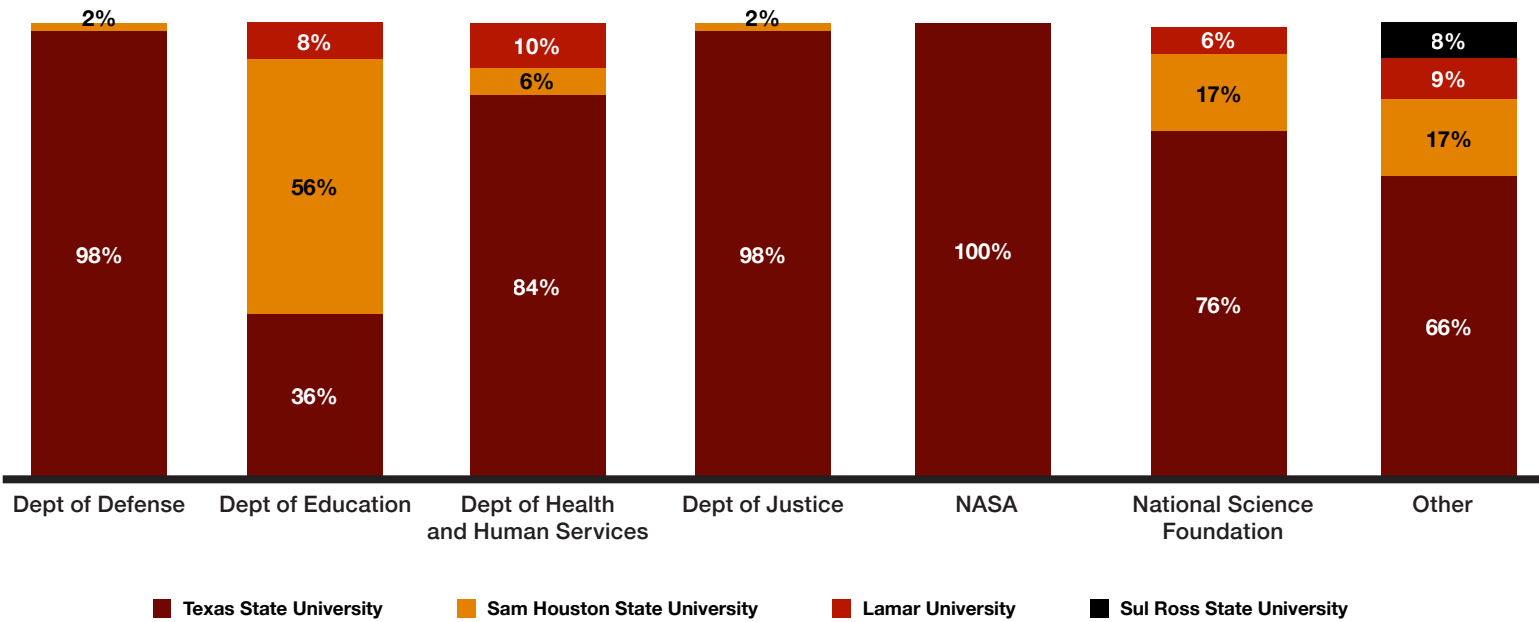
Task Force for Active Attack Preparation



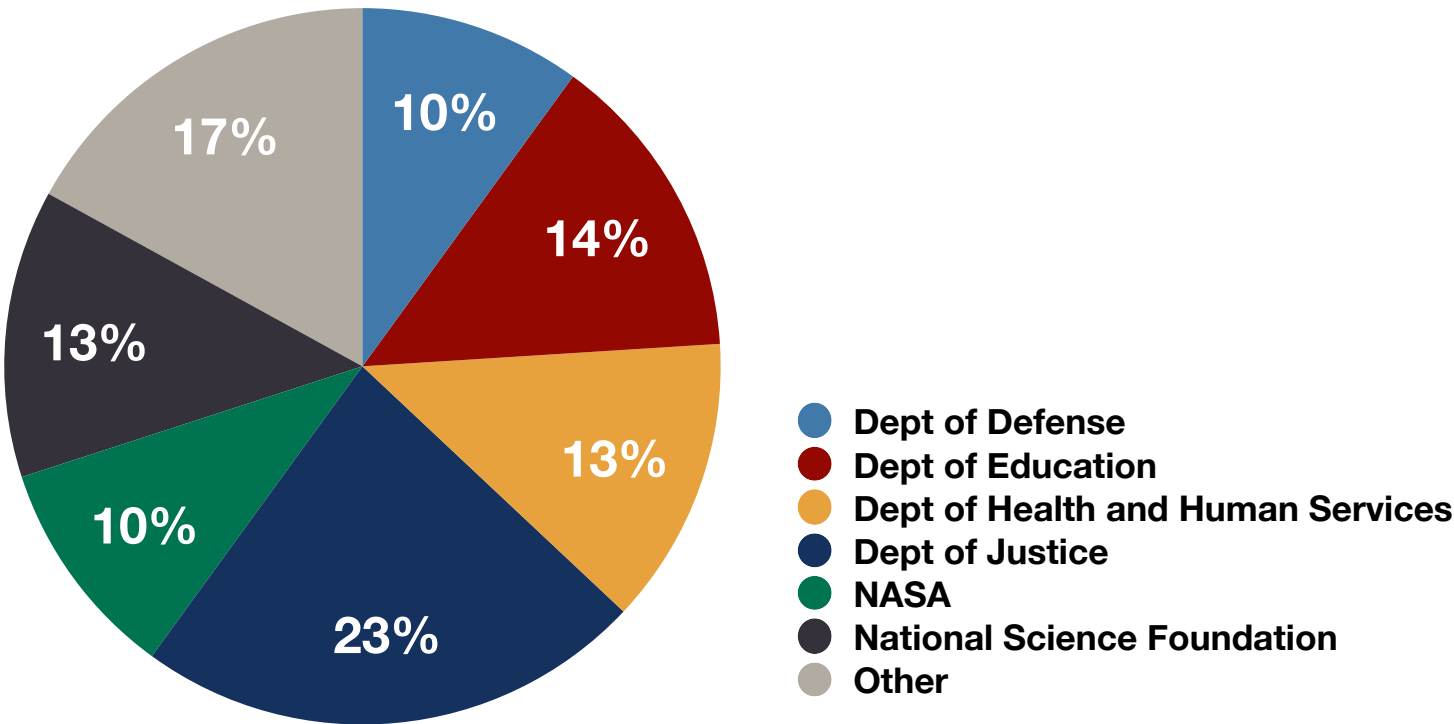
In March 2018, the Texas State University System Task Force for Active Attack Preparation (Task Force) was formed in response to regental and Chancellor concerns for the wellbeing of our campus communities. Component institutions nominated 15 Task Force members that included representatives from faculty, campus law enforcement, emergency management and administration. The Task Force members met multiple times in Austin, as well as completed safety audits on their individual campuses, which resulted in the creation of a training video, System policy recommendations and a virtual tool kit, to assist any campus looking for research-based best practices for developing their own emergency operations plans.

TSUS Research Funding

Percent of Federal Agency Funds Expended by Component (Over \$500K)



2021 Federal Research Funds by Federal Agency (Over \$500K)



TSUS Leadership

Board of Regents



Duke Austin
Chairman



Alan L. Tinsley
Vice Chairman



Charlie Amato
Regent



Sheila Faske
Regent



Dionicio (Don) Flores
Regent



Russell Gordy
Regent



Stephen Lee
Regent



Tom Long
Regent



William F. Scott
Regent

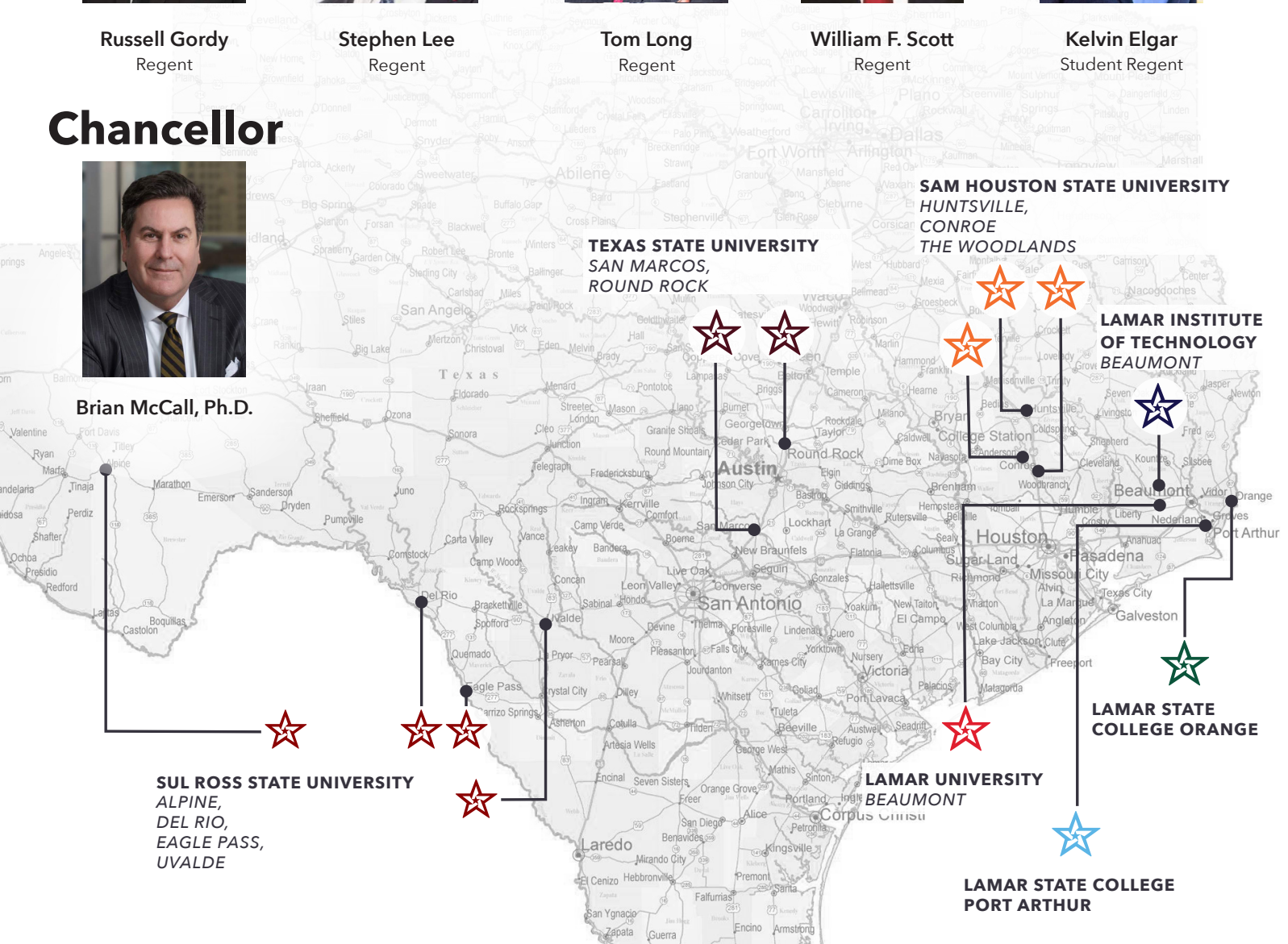


Kelvin Elgar
Student Regent

Chancellor



Brian McCall, Ph.D.





TSUS Quick Facts

- ★ The Texas State University System (TSUS) is the third-largest university system in Texas and 21st nationally based on enrollment.
- ★ The System is based in Austin, Texas and is governed by a nine-member Board of Regents appointed by the Governor and led by a board-appointed Chancellor.
- ★ More than 88,000 students (33% Hispanic, 16% African-American, and 46% Pell undergraduate students) are enrolled at TSUS's seven member institutions, a 22% increase since 2010.
- ★ The System awards more than 22,000 degrees and credentials per year, a 46% increase since 2010.
- ★ Approximately 13,800 are employed across the system, including 4,000 faculty, 5,100 staff and administrators, and another 4,700 student workers.
- ★ The System has a combined operating budget of approximately \$1.68 billion.
- ★ TSUS receives 26% of its operating revenue from the state, down from 32% in 2010.
- ★ Total research expenditures across TSUS have increased 213% since 2010, to \$130 million.
- ★ The System's endowment across all institutions has increased by 225% since 2010, to \$670 million.
- ★ TSUS's administrative office has the fewest employees and the smallest budget – by far – of any university system in Texas.
- ★ The System's administrative cost as a percentage of total operating revenue is 8%, down from 9.6% in 2010.

The Texas State University System
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Austin, TX 78701