

**Expenditures under Texas  
Comprehensive Research Fund  
(TCRF) and Core Research Support  
Fund (CRSF) FY 2018**

**January 2019**

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### Agency Mission

The mission of the Texas Higher Education Coordinating Board (THECB) is to provide leadership and coordination for Texas higher education and to promote access, affordability, quality, success, and cost efficiency through *60x30TX*, resulting in a globally competitive workforce that positions Texas as an international leader.

### Agency Vision

The THECB will be recognized as an international leader in developing and implementing innovative higher education policy to accomplish our mission.

### Agency Philosophy

The THECB will promote access to and success in quality higher education across the state with the conviction that access and success without quality is mediocrity and that quality without access and success is unacceptable.

The THECB's core values are:

**Accountability:** We hold ourselves responsible for our actions and welcome every opportunity to educate stakeholders about our policies, decisions, and aspirations.

**Efficiency:** We accomplish our work using resources in the most effective manner.

**Collaboration:** We develop partnerships that result in student success and a highly qualified, globally competent workforce.

**Excellence:** We strive for excellence in all our endeavors.

The Texas Higher Education Coordinating Board does not discriminate on the basis of race, color, national origin, gender, religion, age or disability in employment or the provision of services.

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## Executive Summary

In 2001, the Texas Legislature created the Texas Excellence Fund and the University Research Fund to enhance research. In 2003, the Texas Legislature combined the two funds to establish the Research Development Fund (RDF), effective Fiscal Year (FY) 2006. The RDF supported increased research capacity at eligible public universities (all public institutions, except The University of Texas at Austin and Texas A&M University) by providing funds by a set allocation formula to enhance research efforts.

In 2015, the Texas Legislature abolished the Research Development Fund, effective FY 2016, and created the Core Research Support Fund (CRSF) for emerging research universities. The CRSF supports increased research capacity at public institutions of higher education that are designated as emerging research universities under the Texas Higher Education Accountability System. Funds are distributed by a set formula allocation for the support and maintenance of educational and general activities, including research and student services, that promote increased research capacity at the institution. The distribution formula is based on both total research expenditures and restricted research expenditures. The program purpose is outlined in Texas Education Code [Chapter 62, Subchapter F-1](#).

In 2015, the Texas Legislature also created the Texas Comprehensive Research Fund (TCRF) for all public four-year institutions of higher education that are not research or emerging research universities. The TCRF supports increased research capacity at public institutions of higher education that are not designated as research or emerging research universities under the Texas Higher Education Accountability System. Funds are distributed by a set formula allocation for the support and maintenance of educational and general activities, including research and student services, that promote increased research capacity at the institution. The distribution formula is based on restricted research expenditures. The program purpose is outlined in Texas Education Code [Chapter 62, Subchapter E](#).

Each biennium, CRSF and TCRF appropriations by institution are included in the [General Appropriations Act, Senate Bill \(SB\) 1, 85th Texas Legislature](#). These funds may be used for two additional fiscal years beyond the original appropriation year until the funds are spent, encumbered and spent, or lapsed per the [Texas Comptroller of Public Accounts](#). Therefore, expenditures by institution and appropriations totals may vary for any given fiscal year.

Institutions that received funds from the CRSF or the TCRF submitted a report with information about how they used the appropriated funds in the preceding fiscal year. This document contains that information.

A summary of expenditures under the Core Research Support Fund (CRSF) in FY 2018 are presented in Table 1. A summary of expenditures under the Texas Comprehensive Research Fund (TCRF) in FY 2018 are presented in Table 2.

**Table 1.** Fiscal Year 2018 Expenditures from Core Research Support Fund (CRSF).

Institution	Salaries/ Wages for New or Reassigned FTEs	Salaries/ Wages for Existing FTEs	Operating Expenses	Capital Expenditures	Total
TXST	\$597,657	\$1,025,910	\$659,721	\$845,824	\$3,129,112
TTU	\$505,982	\$9,439,587	\$453,292	\$223,392	\$10,622,253
UT-Arlington	\$0	\$5,790,907	\$0	\$0	\$5,790,907
UT-Dallas	\$0	\$7,438,352	\$534,387	\$0	\$7,972,739
UT-El Paso	\$1,865,212	\$3,513,604	\$1,655,482	\$70,876	\$7,105,174
UT-San Antonio	\$409,395	\$3,009,712	\$152,687	\$293,949	\$3,865,743
UH	\$857,521	\$6,716,372	\$1,926,228	\$156,222	\$9,656,343
UNT	\$686,913	\$1,038,910	\$206,159	\$489,618	\$2,421,600
<b>Total</b>	<b>\$4,922,680</b>	<b>\$37,973,354</b>	<b>\$5,587,956</b>	<b>\$2,079,881</b>	<b>\$50,563,871</b>

Source: Texas Higher Education Coordinating Board

**Table 2.** Fiscal Year 2018 Expenditures from Texas Comprehensive Research Fund (TCRF).

Institution	Salaries/ Wages for New or Reassigned FTEs	Salaries/ Wages for Existing FTEs	Operating Expenses	Capital Expenditures	Total
Angelo	\$0	\$0	\$18,804	\$0	\$18,804
Lamar	\$0	\$45,378	\$90,670	\$0	\$136,048
MSU Texas	\$0	\$0	\$21,686	\$27,129	\$48,815
Prairie View	\$0	\$87,959	\$77,525	\$0	\$165,484
SHSU	\$0	\$202,059	\$0	\$0	\$202,059
SFA	\$88,000	\$33,821	\$46,484	\$21,000	\$189,306
Sul Ross	\$0	\$108,409	\$0	\$0	\$108,409
Tarleton	\$0	\$431,087	\$18,455	\$14,551	\$464,093
TAM-I	\$0	\$152,586	\$0	\$0	\$152,586
TAMU-Galveston	\$60,883	\$0	\$6,591	\$0	\$67,474
TAMU-Commerce	\$0	\$134,503	\$6,738	\$0	\$141,241
TAMU-CC	\$324,676	\$456,057	\$337,923	\$7,500	\$1,126,156
TAMU-Kingsville	\$0	\$525,672	\$258,233	\$18,444	\$802,349
TAMU-San Antonio	\$0	\$0	\$12,317	\$0	\$12,317
TAMU-Textarkana	\$0	\$1,080	\$0	\$0	\$1,080
TSU	\$0	\$106,864	\$79,294	\$0	\$186,158
TWU	\$0	\$94,880	\$2,222	\$0	\$97,102
UT-Tyler	\$44,277	\$0	\$13,616	\$0	\$57,893
UT-Permian	\$0	\$36,452	\$0	\$0	\$36,452
UT-RGV	\$533,828	\$100,733	\$148,125	\$66,093	\$848,779
UH-Clear Lake	\$12,952	\$15,151	\$0	\$0	\$28,103
UH-Downtown	\$0	\$150,876	\$0	\$0	\$150,876
UH-Victoria	\$0	\$0	\$0	\$11,347	\$11,347
UNT-Dallas	\$0	\$0	\$1,523	\$0	\$1,523
WTAMU	\$0	\$179,488	\$49,506	\$0	\$228,994
<b>Total</b>	<b>\$1,064,616</b>	<b>\$2,863,055</b>	<b>\$1,189,713</b>	<b>\$166,064</b>	<b>\$5,283,448</b>

Source: Texas Higher Education Coordinating Board



# Angelo State University

## Entry: 1

**Title:** New Faculty Research Start-up Support: Engineering

**Description:** Materials, supplies, small equipment, and software for civil/environmental engineering research.

**Purpose/Intent:** To support a new faculty member in establishing his research lab and activities.

**Benefit for the State or Institution:** A new civil/environmental engineering faculty member required specific supplies, small equipment, and software to establish his research lab/activities at ASU. This investment will result in the publication of studies, which will provide recognition to the university, and opportunities for undergraduates to engage in research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$3,463
Capital Expenditures	\$0
<b>Total</b>	<b>\$3,463</b>

## Entry: 2

**Title:** New Faculty Research Start-up Support: Management & Marketing

**Description:** Statistical software for management/marketing research.

**Purpose/Intent:** To support a new faculty member in establishing his research program.

**Benefit for the State or Institution:** A new management faculty member needed specific statistical software to analyze data sets for his research. Provision of the software will facilitate the analysis and publication of research results in key journals, providing recognition to the university and support for accreditation of the institution's business programs.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$764
Capital Expenditures	\$0
<b>Total</b>	<b>\$764</b>

## Entry: 3

**Title:** Funds carried forward to FY19

**Description:** Funds carried forward to FY19.

**Purpose/Intent:** Funds carried forward to FY19 to support faculty research projects during the period from Sep. 2018 through Aug. 2019

**Benefit for the State or Institution:** Funding will support new and ongoing faculty research projects in FY19.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$9,528
Capital Expenditures	\$0
<b>Total</b>	<b>\$9,528</b>

**Entry: 4**

**Title:** New Faculty Research Start-up Support: Chemistry

**Description:** Materials and supplies for organic chemistry research.

**Purpose/Intent:** To support a new faculty member in establishing his research lab and activities.

**Benefit for the State or Institution:** The new organic chemist needed specific scientific supplies to begin his research activities at ASU; these supplies will allow the faculty member to establish his independent research program at ASU, improving his competitiveness for external funding and providing valuable research experiences for undergraduate students.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$5,049
Capital Expenditures	\$0
<b>Total</b>	<b>\$5,049</b>

## Lamar University

### Entry: 1

**Title:** Cayuse grants management software

**Description:** Cayuse 424 and Cayuse IRB software.

**Purpose/Intent:** Assist with proposal and grant management as well as management of IRB applications.

**Benefit for the State or Institution:** Streamlines process (IRB) and streamlines proposal preparation and grant management.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$75,572
Capital Expenditures	\$0
<b>Total</b>	<b>\$75,572</b>

### Entry: 2

**Title:** Salaries for Sponsored Programs

**Description:** Salaries for Sponsored Programs Office.

**Purpose/Intent:** Sponsored Programs office assist professors in finding and applying for external funding.

**Benefit for the State or Institution:** Enables University to seek external funding for research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$45,378
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$45,378</b>

### Entry: 3

**Title:** Info Ready Corporation

**Description:** Software to manage internal grant submissions.

**Purpose/Intent:** Assist with management of internal grant submissions.

**Benefit for the State or Institution:** Streamlines process for internal Research Enhancement grants, faculty fellowship grants and limited submission proposals.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$8,000
Capital Expenditures	\$0
<b>Total</b>	<b>\$8,000</b>

**Entry: 4**

**Title:** Biomedical Research

**Description:** CITI Training.

**Purpose/Intent:** Allows faculty and students to complete training for RCR, IRB, COI and research related areas.

**Benefit for the State or Institution:** Training is required for students to work on grants/apply for IRB approval to conduct research. Training for researchers promotes ethical compliant research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$3,955
Capital Expenditures	\$0
<b>Total</b>	<b>\$3,955</b>

**Entry: 5**

**Title:** Water Monitoring Solutions/Various

**Description:** Water Monitoring Solutions.

**Purpose/Intent:** Water Monitoring System.

**Benefit for the State or Institution:** To enable faculty to garner federal and industrial support for their research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$3,143
Capital Expenditures	\$0
<b>Total</b>	<b>\$3,143</b>

## Midwestern State University

### Entry: 1

**Title:** Precision Workstation Mini Tower

**Description:** Support purchase of a research-grade computer workstation for a new geosciences faculty member.

**Purpose/Intent:** The purchased computer will provide the enhanced hardware and software capabilities needed by the new geosciences faculty member.

**Benefit for the State or Institution:** The computer workstation will be used to support faculty teaching and research needs in geosciences.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,143
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,143</b>

### Entry: 2

**Title:** Ultra Low Freezer with -86C Capability

**Description:** Support purchase of ThermoFisher Scientific -86C upright ultra-low temperature freezer.

**Purpose/Intent:** Store DNA, microorganisms and tissue samples at very low temperatures to preserve specimen stability and integrity.

**Benefit for the State or Institution:** At the time of purchase the science labs shared only one ultra-low freezer that, if a power loss was experienced, was not able to hold temperature and resulted in potential loss of specimens and years of research. Having two freezers ensures if one loses power irreplaceable samples used in research by faculty and graduate students can be moved to a backup.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$511
Capital Expenditures	\$0
<b>Total</b>	<b>\$511</b>

### Entry: 3

**Title:** High performance liquid chromatography (HPLC) instrument and accessories

**Description:** Support purchase of NCG Quest 10 Plus Chromatography System.

**Purpose/Intent:** Support updates of laboratory equipment for a new faculty member in biochemistry.

**Benefit for the State or Institution:** The new faculty member's research expands the range of questions being explored in the College. His work in protein biochemistry requires protein purification that can be done with a more modern HPLC and updated columns.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$5,767
Capital Expenditures	\$9,208
<b>Total</b>	<b>\$14,975</b>

**Entry: 4**

**Title:** Ceramic 3D Printer

**Description:** Purchase of materials to construct ceramic 3D printers.

**Purpose/Intent:** The PI was invited to do an artist residency at the University of West Virginia where he worked with MSU students, WVU graduate students, and professors to build two ceramic 3D printers, which were brought back to MSU Texas for use in the ceramics department

**Benefit for the State or Institution:** 3D printing is an important paradigm shift in the ceramic arts and ceramic science and engineering. However, the "art" of 3D printing is not keeping up with science, as not enough time has been invested in making 3D printed ceramic art. The students trained on this project will make a difference in both art making and science with ceramic 3D printers. The PI's interest in learning and teaching 3D ceramic printing is two-fold: first, ceramic 3D printing skills can be used in a variety of disciplines, giving students more employment opportunities and enriching culture with the art that is made; second, the PI's own art pieces are made up of thousands of individual pieces, and as a result, 3D printing will make the process faster and allow the PI's work to be more complex and elaborate.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$196
Capital Expenditures	\$0
<b>Total</b>	<b>\$196</b>

**Entry: 5**

**Title:** Office of Sponsored Programs and Research

**Description:** Purchase of SPIN Plus subscription.

**Purpose/Intent:** Provides support for faculty research.

**Benefit for the State or Institution:** Assists with identification of grant opportunities that will fit the needs of our institution.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,425
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,425</b>

**Entry: 6**

**Title:** Auto Fuser

**Description:** Support purchase of a Katana X-300 Electric Fluxer, crucible, and mold.

**Purpose/Intent:** The auto fuser will be used to prepare samples for the department of geosciences' existing x-ray fluorescence instrument.

**Benefit for the State or Institution:** The equipment will be used in support of research and educational activities in the Department of Geosciences.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$17,921
<b>Total</b>	<b>\$17,921</b>

**Entry: 7**

**Title:** The Forgotten and Twisted Conflict History of the Siam-Burma Death Railway

**Description:** Sony Camcorder and supplies for video interviews.

**Purpose/Intent:** The Siam-Burma Death Railway was a World War II Japanese project. Workers on the project were subjected to terrible conditions as Japan’s primary goal was to complete the project in the shortest time in the most efficient manner. The majority of the forced labor was from Southeast Asia which included families and children, many of whom ended up becoming orphans at the conclusion of the war. While about 13,000 prisoners of war (POWs) from Europe, the U.S., and Australia died, hundreds of thousands of Southeast Asians perished (an exact number is unavailable). Western powers and experts from the West managed to document the hardship and details of the POWs. On the Southeast Asian side, however, little information is available, let alone online materials. Research is scarce. This project attempts to address this gap in the literature. This project involves the collection of valuable primary data from field work, involving interviews and discussions with World War II survivors in Southeast Asia.

**Benefit for the State or Institution:** Because the few remaining survivors are in their 90s (one survivor is 100 years old and is blind; child survivors are in their 70s and 80s), if interviews and discussions are not held right away, it is just a matter of time before we lose valuable and pertinent data. In the past there have been attempts to carry out such work but almost all of them involved the Prisoners of War (POWs). One or two historians undertook studies on Asian labor. There is none in Political Science. The literature has left a gap in this subject. My study provides useful insights into the field of armed conflicts, within which refugee crisis and management of genocide survivors have been slowly gaining attention, as in the current case of Syria. The data collected will potentially be used by scholars of war, peace, and mediation experts. The unique study also supports MSU Texas' mission as a liberal arts institution and provides benefits to students in related courses at the institution.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$2,224
Capital Expenditures	\$0
<b>Total</b>	<b>\$2,224</b>

**Entry: 8**

**Title:** Syncrowave Tungsten Inert Gas (TIG) Welder

**Description:** Purchase of an electric welding machine for the art department.

**Purpose/Intent:** The TIG welder will be used in Fine Arts, primarily sculpture, to weld metals such as steel, stainless steel, bronze, or aluminum.

**Benefit for the State or Institution:** The TIG welder will make it possible for faculty and students in the visual arts to precisely weld steel, stainless steel, bronze, or aluminum without changing gas.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$4,954
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,954</b>

**Entry: 9**

**Title:** Pushing the Paradigms of Art History: The Art of Consuelo Jiménez-Underwood

**Description:** Purchase of Panasonic audio and video equipment.

**Purpose/Intent:** Consuelo Jimenez Underwood: Art, Weaving, Vision is a co-edited collection of writings about Consuelo Jimenez Underwood’s innovative weaving-based multimedia work. From shrouds commemorating transcultural hero/heroines woven in natural fibers, to three-dimensional barbed wire sculptures, to installations using recycled plastic bags, Jimenez Underwood’s powerful oeuvre compassionately engages with today’s social, economic, and environmental issues, while also re-visioning painting, weaving, and the very definition of art. I am serving as co-editor of the manuscript-in-progress with Professor Laura E. Pérez, University of California, Berkeley, and have been commissioned to write an essay that addresses a specific body of work within the artist’s larger art production. This proposal would support the research and development of the essay, as well the shaping and eventual publication of the manuscript.

**Benefit for the State or Institution:** The publication resulting from this research would incorporate Jimenez Underwood’s work into the canons of U.S., women’s, Chicana/o and Latina/o, Indigenous, Ethnic and American Studies, and art history curricula. The equipment purchased will allow the investigator to document artist interviews and studio visits. The collected images, audio, and video files will be used to develop the publication and shared with students.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$4,415
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,415</b>

**Entry: 10**

**Title:** Innovation in Biological Instrumentation through Design and Engineering: Project 1. Thermal Choice Chamber

**Description:** Purchase of materials to construct a thermal choice chamber for studies in physiological ecology.

**Purpose/Intent:** This specific project represents the first of what we hope to be productive future of this collaboration. Faculty will work closely with students to produce a thermal choice chamber for studies in physiological ecology. This chamber will allow us to determine the thermal preference of lizards or insects and apply those values to habitat temperatures to measure thermal suitability of habitat.

**Benefit for the State or Institution:** Innovation in instrumentation used to measure biological variables offers a great opportunity for members of the Biology and Engineering faculty to collaborate and produce solutions to a myriad of problems. This collaboration will engage students in a critical thinking exercise and provide a venue for interdisciplinary collaboration among faculty. It will ultimately result in a new instrument to measure meaningful biological variables.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$67
Capital Expenditures	\$0
<b>Total</b>	<b>\$67</b>



**Entry:** 11

**Title:** Ultrasound training models

**Description:** Two ultrasound training models were purchased: Branched 2-Vessel Vascular Access Training Model; Soft tissue Masses biopsy phantom training model.

**Purpose/Intent:** The Branched 2-Vessel Vascular Access model is a lightweight, economical training aid that will benefit the radiologist assistant students in developing, practicing and maintaining the skills associated with ultrasound guided vascular access and arterial access procedures. This medical simulator assists radiologist assistant students in the acquisition and interpretation of sonographic images of blood vessels as well as developing the psychomotor skills of guiding needles to simulated vessels in the human patient. These ultrasound imaging skills include; using ultrasound system controls, transducer positioning and movement, recognition of vessels in soft tissue, and using ultrasound to target the vessels for ultrasound guided vascular access procedures. The Soft Tissue Masses Biopsy Phantom model is excellent for radiologist assistant students who are refining their procedural skills, as the masses in this soft tissue biopsy model can be accessed with needles and fluid can be injected into the model to verify needle tip location. Fluids are automatically expelled so that the model can be used repeatedly for training. Using the phantom's simulated human tissue, tissue biopsy ultrasound surgical training model is excellent for training radiologist assistant students in the psychomotor skills associated with ultrasound guided fine needle biopsy procedures. These ultrasound imaging skills include; using ultrasound system controls, transducer positioning and movement, recognition of soft tissue masses as tumors found in superficial anatomical structures, using ultrasound system calculation packages, and using ultrasound to target the lesions for fine needle biopsy.

**Benefit for the State or Institution:** These models will be used by faculty and students in the Radiologist Assistant program to facilitate repeated practice of procedures without the high costs of replacing disposable parts.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$984
Capital Expenditures	\$0
<b>Total</b>	<b>\$984</b>

## Prairie View A&M University

### Entry: 1

**Title:** Teaching Resources for Undergraduate STEM Students (TRUST)

**Description:** This project will be a week-long bootcamp for students at an Austin, TX high school enrolled in AP Calculus (AB or BC) for the 2018-2019 academic year. A curriculum will be developed for this bootcamp. This will be a pilot project, with future implementations working to refine methods and improve results from this project.

**Purpose/Intent:** This project seeks to develop a curriculum (materials and pedagogy) to improve the content knowledge and self-efficacy of students planning to enroll in AP Calculus (both AB and BC). This project seeks to identify and address weaknesses among these students.

**Benefit for the State or Institution:** This pilot project will lead to conference presentations and publications aimed at teaching research and research involving STEM students.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$4,614
Operating Expenses	\$3,277
Capital Expenditures	\$0
<b>Total</b>	<b>\$7,891</b>

### Entry: 2

**Title:** An Approach for Supporting Distributed Sensor-Based Applications

**Description:** Although there are a growing number of technologies focused on Internet of Things and related distributed sensor-based applications, there is relatively limited foundational work on such applications. The PI would like to develop a model to understand and enable reasoning about this type of application and the PIs team will develop a programming framework to support the implementation of such applications.

**Purpose/Intent:** To take a broadly multi-agent systems approach to address some key challenges in supporting distributed sensor-based applications.

**Benefit for the State or Institution:** The outcomes of this project will be introduced in the new distributed computing classes to be developed in the Computer Science Department at PVAMU. The model and framework may interest researchers working on sensor-based applications in industry, which will lead to potential collaborations between PVAMU and IT companies.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,400
Operating Expenses	\$7,894
Capital Expenditures	\$0
<b>Total</b>	<b>\$9,294</b>

**Entry: 3**

**Title:** Synthesis of Polycarbonate Materials Bearing Sulfur-Impregnated Succinate Esters for Enhanced Water Purification via Heavy Metal Chelation

**Description:** No description submitted.

**Purpose/Intent:** To gain an understanding of the necessity of the binding site structure and composition of the chelating material to facilitate sufficient lead chelating affinity.

**Benefit for the State or Institution:** This work will establish design parameters and build a foundation for future research efforts that will identify and test the use of effective, efficient, and biocompatible metal-chelating polymers.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$792
Operating Expenses	\$13,820
Capital Expenditures	\$0
<b>Total</b>	<b>\$14,612</b>

**Entry: 4**

**Title:** Religious Institutions and Reentry

**Description:** No description submitted.

**Purpose/Intent:** To provide a foundation for the development of a faith-based reentry program within churches and a religious institution training program for churches to educate them on the social psychological and behavioral benefits of supporting and providing resources to individuals reentering society from prison and mental health facilities.

**Benefit for the State or Institution:** Beyond providing a foundation for acquiring future funding, this project will provide multiple publication and presentation opportunities. Hopefully, published summaries of this research in media outlets will draw attention to the work.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$12,019
Operating Expenses	\$3,693
Capital Expenditures	\$0
<b>Total</b>	<b>\$15,712</b>

**Entry: 5**

**Title:** Edge Enhancement and Feature Extraction in Image Processing

**Description:** No description submitted.

**Purpose/Intent:** The main projective of the project is to introduce innovative filters, both linear and nonlinear, for edge detection and feature extraction in image processing, with a particular consideration of wavelet techniques.

**Benefit for the State or Institution:** The project will enhance faculty professional development, improve curriculum development for STEM students, and increase the undergraduate students research activities at PVAMU in general.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$4,120
Operating Expenses	\$8,243
Capital Expenditures	\$0
<b>Total</b>	<b>\$12,363</b>

**Entry: 6**

**Title:** Simulation of Venous Flow Through An Implantable Vascular Access Device

**Description:** No description submitted.

**Purpose/Intent:** While it is known that recirculation occurs in fistulas at flow rates less than 300mL/min, the simulation will be used to study whether or not recirculation will be induced at different flow rates as a result of wrapping the draining viewn of an AV fistual with rigid, implantable vascular access device.

**Benefit for the State or Institution:** Outcomes from this project will be used to improve the mechanical design of a 3D printed vascaular access device.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$5,749
Operating Expenses	\$10,935
Capital Expenditures	\$0
<b>Total</b>	<b>\$16,684</b>

**Entry: 7**

**Title:** Youth Devotion to Technological Socializing: The Impact on Conventional Bonds, Social Learning and Deviant Behavior

**Description:** No description submitted.

**Purpose/Intent:** In terms of youth well-being, this study is an effort to examine within racial, ethnic and socio-economic groups, possible differences in terms of the elements of Hirschi's (196) conventional bonds and Akers (1985) social learning.

**Benefit for the State or Institution:** The results of this study will offer insights on the possible positive and negative aspects of youth social media use. This information will induce impact on family and peer relationships. The findings will be disseminated through publications and presentations that will benefit academic and practitioner audiences.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$12,000
Operating Expenses	\$6,608
Capital Expenditures	\$0
<b>Total</b>	<b>\$18,608</b>

**Entry: 8**

**Title:** Health Disparities & Injustice in Waller County

**Description:** No description submitted.

**Purpose/Intent:** This study will investigate systemic racial/ethnic, gendered, and economic inequities regarding health education and accessibility to prevention and treatment services concerning underrepresented populations in Waller County.

**Benefit for the State or Institution:** This project will provide information and enhance community relationships for a more extensive project that includes forming a transdisciplinary, community-based initiative between PVAMU & Waller County that will work toward creating and implementing programs to address healthcare issues. Objectives of the larger project include mentorship programs between faculty, students, and community members; healthcare education initiatives utilizing academic programs, such as the College of Nursing, the School of Social Work, and the Undergraduate Medical Academy; partnerships between PVAMU and businesses within Waller County to improve rural health through increased transportation.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$2,380
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$2,380</b>

**Entry: 9**

**Title:** Panther's in Black

**Description:** No description submitted.

**Purpose/Intent:** The purpose of this program is to educate college students at PVAMU and high school students in surrounding counties about proper money management and college readiness.

**Benefit for the State or Institution:** This program has broad potential for interdisciplinary research. Improving the retention and graduation rates will help the college at an institutional level. The program will be publicized and coordinated with other initiatives on campus that are looking to assist students in their pursuit of a college degree.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$6,843
Operating Expenses	\$7,419
Capital Expenditures	\$0
<b>Total</b>	<b>\$14,262</b>

**Entry: 10**

**Title:** Media Coverage and Corporate Litigation

**Description:** No description submitted.

**Purpose/Intent:** To attain novel evidence and utilize regression analyses to further explain the relationship between media coverage and management behavior; in particular, the effect of media coverage on the probability of corporate misconduct.

**Benefit for the State or Institution:** The project could have many social and behavioral implications, leading to potential teaching and learning beyond the traditional scope of finance and litigation. The potential findings could develop further collaborative teams and lay the foundation for future research to delve into the individual roles that different scenarios may have.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$13,639
Operating Expenses	\$3,801
Capital Expenditures	\$0
<b>Total</b>	<b>\$17,440</b>

**Entry: 11**

**Title:** The Bakari© Mentoring Program/Project: A Prevention and Intervention Program for At-Risk Adolescents

**Description:** No description submitted.

**Purpose/Intent:** The purpose of the program is to produce socially conscious, responsible, and respectable adolescent males and females who can actualize their potential by taking full advantage of the opportunities life has to offer them. Therefore, the Bakari© Program seeks to prevent identified at-risk youth throughout the country from a downward spiral that negatively impacts their educational progress, mental health and well-being, and the possibility of engaging in delinquent behavior that could ultimately lead them to intersecting with the juvenile and/or adult criminal justice systems.

**Benefit for the State or Institution:** The aim of the Bakari© Mentoring Program is to serve as a national model given the program success for the past 21 years. Consequently, outcome data will be used to expand the program to serve more youth and their families, provide increased academic and social-emotional services, support, and pro-social environment to youth that will enable them to get back on track to ensure a successful transition into adulthood. Outcome data will also be used to apply for external funding from local, state, and national agencies.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$8,648
Operating Expenses	\$3,262
Capital Expenditures	\$0
<b>Total</b>	<b>\$11,910</b>

**Entry: 12**

**Title:** A Tale of Two Republics: Republican Comparisons of the American Founders and the Ancient Romans

**Description:** No description submitted.

**Purpose/Intent:** This project is designed to demonstrate the continued need for connecting different fields of history, while also helping students understand their connection to the ancient past- a past that many Americans view as irrelevant to their individual lives.

**Benefit for the State or Institution:** The end objective of this project is to publish a book that contributes to both ancient and American histories by challenging the prevailing understandings of the historical underpinnings of American republicanism. This project is essential in carrying the research into the core curriculum, and connecting students to a broader understanding of their places within the world.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$5,756
Operating Expenses	\$1,474
Capital Expenditures	\$0
<b>Total</b>	<b>\$7,232</b>

**Entry: 13**

**Title:** Improving Math and Science Teacher Preparation for Inclusion Classrooms

**Description:** No description submitted.

**Purpose/Intent:** To build on the university's capacity to articulate views and voices of the traditionally underserved as they matriculate through higher education and find success in the professional arena. The project will support, enhance, and expand an initiative started in the fall 2017 semester to provide workshops for general teacher education candidates to increase the pass rate on the state licensure examination.

**Benefit for the State or Institution:** The findings from this project will be used to develop program components which will enhance math, science, and the general teacher education preparation at PVAMU. Candidates will be proficient professionals who will be able to adequately address the varied learning needs of diverse student populations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$9,999
Operating Expenses	\$7,099
Capital Expenditures	\$0
<b>Total</b>	<b>\$17,098</b>

# Sam Houston State University

**Entry: 1**

**Title:** Office of Research & Sponsored Program Operations

**Description:** This appropriation is to cover operational expenses of this office.

**Purpose/Intent:** The purpose of the office is to promote all aspects of research and other creative endeavors at SHSU.

**Benefit for the State or Institution:** This office promotes research administration by providing administrative support in seeking and securing funding and ensuring SHSU is compliant with sponsor guidelines.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$202,059
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$202,059</b>



## Stephen F. Austin State University

### Entry: 1

**Title:** Faculty/GRA Collaborative Research

**Description:** Funds for GRA salary and research for selected departments.

**Purpose/Intent:** Provided salary support for 6 GRAs and research supplies in Geology and Biology departments.

**Benefit for the State or Institution:** Provide opportunities for faculty-student collaborative research projects to build research capacity, increase SFA's competitiveness for external funds, and increase the number of well-prepared master's degree graduates with a strong background in research.

Salaries/Wages for New or Reassigned FTEs	\$88,000
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$34,824
Capital Expenditures	\$0
<b>Total</b>	<b>\$122,824</b>

### Entry: 2

**Title:** ORSP Research Development

**Description:** Employed a staff position purchased software licenses to support faculty research activities.

**Purpose/Intent:** The staff position and software allow ORSP to assist research centers and faculty in identifying and applying for external grant opportunities, and developing sustainability plans. In addition, the staff person provides training to faculty on writing research proposals.

**Benefit for the State or Institution:** These funds enable SFA faculty and research centers to gain recognition by finding and applying for a greater number of research grants which contributes to the research capacity and recognition of the University.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$33,821
Operating Expenses	\$11,660
Capital Expenditures	\$0
<b>Total</b>	<b>\$45,481</b>

**Entry: 3**

**Title:** Geology Equipment

**Description:** Partial funding for research equipment in the Department of Geology.

**Purpose/Intent:** Provided partial funding to purchase research equipment which will allow for faculty to complete a wider range of research projects.

**Benefit for the State or Institution:** These funds enable Geology faculty and students to complete a wider range of research projects, and for faculty to be more competitive with cutting edge research that can lead to greater collaboration with other entities and increase capabilities of receiving external grant funding.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$21,000
<b>Total</b>	<b>\$21,000</b>

## Sul Ross State University

### Entry: 1

**Title:** Research Assistants

**Description:** Provide research opportunities for SRSU students.

**Purpose/Intent:** Provide educational opportunities in non traditional settings and support of key research programs.

**Benefit for the State or Institution:** Research Assistants serve as the "lifeblood" of research programs in assisting with data analyzes and collection.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$35,924
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$35,924</b>

### Entry: 2

**Title:** Center for Big Bend Studies

**Description:** The Center supports and promotes archaeological and historical activities in the Trans-Pecos and Big Bend Region of Texas and northern Mexico. It provides educational opportunities for university students, the public, and outside researchers.

**Purpose/Intent:** To promote the recovery, protection, and sharing of the region's rich cultural legacy.

**Benefit for the State or Institution:** Scientific investigations into the cultural heritage of the region lead to a better understanding of Texas history and increased protection for historical sites. Research opportunities provided to students help to train the scientists of tomorrow.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$27,947
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$27,947</b>

### Entry: 3

**Title:** Borderlands Research Institute

**Description:** Provide research opportunities for SRSU faculty and students.

**Purpose/Intent:** The mission of the Borderlands Research Institute for Natural Resource Management is to help conserve the natural resources of the Chihuahuan Desert Borderlands through research, education, and outreach.

**Benefit for the State or Institution:** The goal of BRI is to provide land managers with the most current scientific information on the management of natural resources of the area.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$25,813
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$25,813</b>

**Entry:** 4

**Title:** Archives of the Big Bend

**Description:** Provide research opportunities for SRSU faculty and students.

**Purpose/Intent:** The Archives of the Big Bend functions as the repository for primary materials documenting a diverse history and culture and supports the academic mission of the University as a department of the Library.

**Benefit for the State or Institution:** In addition to serving as teaching facilities for SRSU students. They assist researchers in determining which materials are best suited for various restoration projects.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$18,725
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$18,725</b>

## Tarleton State University

### Entry: 1

**Title:** Tarleton State University

**Description:** Organized Research Program

**Purpose/Intent:** The Organized Research Program provides financial support for the individual research projects of at least 8 faculty members across the university's colleges and academic disciplines.

**Benefit for the State or Institution:** Provides direct funding to the faculty for the university research mission.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$239,783
Operating Expenses	\$18,454
Capital Expenditures	\$14,551
<b>Total</b>	<b>\$272,789</b>

### Entry: 2

**Title:** Tarleton State University

**Description:** Texas Institute of Applied Environmental Research

**Purpose/Intent:** The office of TIAER is a multidisciplinary research institute authorized by the Texas Legislature that is tasked with conducting applied research on environmental issues, provide national leadership and policy development.

**Benefit for the State or Institution:** The funds allocated by the state to TIAER through the university is an investment in research that pays dividends on a local, state, and national basis, while providing essential solutions to environmental problems facing the world. By being a recognized national leader in environmental research, the state's investment provides a basic foundation for agricultural scientists, mathematical modelers, communication specialists, water quality scientists, graphic artists, computer scientists, water quality monitoring specialists and an accounting and audit team.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$168,137
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$168,137</b>

**Entry:** 3

**Title:** Tarleton State University

**Description:** Instructional Grants and Contracts

**Purpose/Intent:** Instructional Grants and Contracts provides operation funding for the existing office of sponsored projects. This office supports external grant development campus-wide and assists all university departments in seeking sources for grants, writing grant proposals and providing other pre-award and post-award support.

**Benefit for the State or Institution:** Providing funding to the university office is instrumental in obtaining external grants and grant funding.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$23,167
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$23,167</b>

## Texas A&M International University

**Entry:** 1

**Title:** Comprehensive Research Fund

**Description:** The Comprehensive Research Funds is distributed among eligible institutions based on the average amount of restricted research funds expended by each institution per year.

**Purpose/Intent:** Intended for supporting the operations of the university Office of Research & Sponsored Projects.

**Benefit for the State or Institution:** The Office of Research & Sponsored Projects works closely with the university faculty in the development of research related grant proposals.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$152,586
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$152,586</b>

## Texas A&M University at Galveston

### Entry: 1

**Title:** Post-doctoral research support (Dr. Kyeong Park)

**Description:** Post-doctoral research support

**Purpose/Intent:** Research support and invaluable technical and research experience.

**Benefit for the State or Institution:** Post-doctoral research support for developing a hydrodynamic model for Galveston Bay. The Semi-implicit Cross-scale Hydrodynamic Integrated System Model has been applied to the northwestern Gulf of Mexico with the model domain that includes all Texas coastal systems. Model validation has been completed for water level, salinity, temperature and current velocity for ensemble mean and sub-tidal signals. The research has been presented at professional conferences and will generate multiple manuscripts, two of which will be about to be submitted. The research has provided invaluable technical and research experience.

Salaries/Wages for New or Reassigned FTEs	\$45,040
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$45,040</b>

### Entry: 2

**Title:** Start-up funds (Dr. Paul Potier)

**Description:** Start-up funding for new Marine Engineering Technology Professor of the Practice

**Purpose/Intent:** Research support and advancement.

**Benefit for the State or Institution:** The funds have been used for Dr. Potier's salary in support of building a networking and electronics lab that will support campus research.

Salaries/Wages for New or Reassigned FTEs	\$11,676
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$285
Capital Expenditures	\$0
<b>Total</b>	<b>\$11,961</b>



**Entry: 3**

**Title:** Post-doctoral research support (Dr. David Hala)

**Description:** Post-doctoral research support

**Purpose/Intent:** Research support and invaluable technical and research experience.

**Benefit for the State or Institution:** Post-doctoral research support for developing an integrated experimental and modeling framework to study the effects of oil pollution in fish. This research will enhance the development of risk assessment frameworks to protect wildlife health from oil toxicity. The research involves quantifying pollutant levels in fish from the Gulf of Mexico, and measuring associated biomarkers (or biological responses) of oil exposure and stress. This project is providing a comprehensive assessment of fish health in the Gulf of Mexico. The research has been presented at regional meetings and several manuscripts are currently in-preparation for publication. The research has generated invaluable data that is being leveraged for continued funding from state and federal agencies.

Salaries/Wages for New or Reassigned FTEs	\$4,167
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,167</b>

**Entry: 4**

**Title:** Sea Life Facility

**Description:** Sea Life Facility partial operational support.

**Purpose/Intent:** To provide support for operations and maintenance of the Sea Life Facility.

**Benefit for the State or Institution:** This facility is one of the largest & best designed facility for controlled studies of marine systems and coastal lagoons in the Gulf of Mexico. The facility provides the means for TAMUG faculty to design studies, such as the effect of hyposia in marine organisms, that will increase understanding of the ecosystems of the Gulf of Mexico and the resources contained therein.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$6,306
Capital Expenditures	\$0
<b>Total</b>	<b>\$6,306</b>

## Texas A&M University-Commerce

### Entry: 1

**Title:** Research Compliance Coordinator

**Description:** Salaries for Professional position responsible for all issues involved in the responsible and ethical conduct of research.

**Purpose/Intent:** The purpose of this position is to continually evaluate and support faculty in research issues related to the following: Biosafety, human subjects, animal care and use, export control, conflict of interest, responsible conduct of research.

**Benefit for the State or Institution:** Ensuring that all externally funded research follows all appropriate guidelines allows the university to be in compliance with the established federal, state, and university regulations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$46,650
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$46,650</b>

### Entry: 2

**Title:** Senior Project Administrator

**Description:** Salaries for Professional positions responsible for the administration of externally funded research.

**Purpose/Intent:** Reviews, analyzes and interprets award documentation and expenses to identify potential items that may be a compliance issue; and conducts other reviews as necessary based on funded program guidelines.

**Benefit for the State or Institution:** Ensuring that all externally funded research follows all appropriate guidelines allows the university to be in compliance with the established federal, state, and university regulations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$38,452
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$38,452</b>

**Entry: 3**

**Title:** Research and Sponsored Programs Coordinator II

**Description:** Salaries for Professional position responsible for providing administrative support to OSP staff and the Vice Provost for Research.

**Purpose/Intent:** Coordinates the issuance of internally funded research awards to students and faculty; provides support to compliance staff and pre and post award administrators.

**Benefit for the State or Institution:** Ensuring that all externally funded research follows all appropriate guidelines allows the university to be in compliance with the established federal, state, and university regulations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$35,557
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$35,557</b>

**Entry: 4**

**Title:** Interim Vivarium Manager (stipend)

**Description:** This position was responsible for the oversight of the animal care facility on a short term basis.

**Purpose/Intent:** To manage the Animal Care Facility on a short term basis.

**Benefit for the State or Institution:** Ensuring that the animal care facility follows all appropriate guidelines allows the university to be in compliance with the established federal, state, and university regulations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$500
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$500</b>

**Entry: 5**

**Title:** PATHWAYS Symposium - Registration

**Description:** PATHWAYS is a symposium that provides a venue for undergraduate and graduate students to interact and discuss their research.

**Purpose/Intent:** PATHWAYS is a symposium that provides a venue for undergraduate and graduate students to present their research findings in a poster or oral format and to interact with researchers, judges and other participants.

**Benefit for the State or Institution:** This symposium is an opportunity for undergraduate and graduate students to receive recognition for their research endeavors.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$2,520
Capital Expenditures	\$0
<b>Total</b>	<b>\$2,520</b>

**Entry: 6**

**Title:** Proposal Administrator

**Description:** Salaries for Professional positions responsible for the administration of externally submitted research proposals.

**Purpose/Intent:** Reviews, analyzes and interprets proposal documentation and potential items that may be a compliance issue; and conducts other reviews as necessary based on program guidelines.

**Benefit for the State or Institution:** Ensuring that all externally submitted research proposals follow all appropriate guidelines allows the university to be in compliance with the established federal, state, and university regulations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$3,364
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$3,364</b>

**Entry: 7**

**Title:** PIVOT Database (ProQuest LLC)

**Description:** Global database of sponsored funding opportunities from private, state, and federal sponsors.

**Purpose/Intent:** Assist faculty and staff in pursuing and obtaining external funding for research and sponsored projects.

**Benefit for the State or Institution:** Ensures that faculty and staff have access to sponsored funding opportunities to enhance the research enterprises.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,926
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,926</b>

**Entry: 8**

**Title:** Student Worker (Animal Care Facility)

**Description:** This position assists with the daily tasks in the animal care facility.

**Purpose/Intent:** To help maintain proper care of animals housed in the animal care facility.

**Benefit for the State or Institution:** Ensures animals receive proper care and treatment in the animal care facility.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$775
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$775</b>

**Entry: 9**

**Title:** NCURA Region V Meeting- Registration Fees

**Description:** National Council of University Research Administrators Training.

**Purpose/Intent:** To stay up to date on current research policies and procedures.

**Benefit for the State or Institution:** Ensuring that all externally funded research follows all appropriate guidelines allows the university to be in compliance with the established federal, state, and university regulations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$722
Capital Expenditures	\$0
<b>Total</b>	<b>\$722</b>

**Entry: 10**

**Title:** NCURA Annual Meeting, D.C. - Registration

**Description:** National Council of University Research Administrators Training.

**Purpose/Intent:** To stay up to date on current research policies and procedures.

**Benefit for the State or Institution:** Ensuring that all externally funded research follows all appropriate guidelines allows the university to be in compliance with the established federal, state, and university regulations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$705
Capital Expenditures	\$0
<b>Total</b>	<b>\$705</b>

**Entry: 11**

**Title:** PRIMER Conference - Lodging, Parking Fees, mileage

**Description:** IACUC Conference - Discuss advance issues and current topics in IACUC Administration.

**Purpose/Intent:** Provides best practices for communicating and collaborating for IACUC's and IBC Committees.

**Benefit for the State or Institution:** Ensuring that all externally funded research follows all appropriate guidelines allows the university to be in compliance with the established federal, state, and university regulations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$675
Capital Expenditures	\$0
<b>Total</b>	<b>\$675</b>

**Entry:** 12

**Title:** IRB Chairperson (stipend for summer only)

**Description:** This position completes and directs the review, categorization, communication, and approval or disapproval of all IRB applications.

**Purpose/Intent:** The purpose of this position is to continually evaluate and support faculty in research issues related to the following: human subjects and responsible conduct of research.

**Benefit for the State or Institution:** Ensuring that all externally funded research follows all appropriate guidelines allows the university to be in compliance with the established federal, state, and university regulations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$9,205
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$9,205</b>

**Entry:** 13

**Title:** NCURA Membership Dues

**Description:** National Council of University Research Administrators membership fees.

**Purpose/Intent:** Provides a network of research administrators as a resource and support to the position.

**Benefit for the State or Institution:** Keep research administrators up to date Ensuring that all externally funded research follows all appropriate guidelines allows the university to be in compliance with the established federal, state, and university regulations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$190
Capital Expenditures	\$0
<b>Total</b>	<b>\$190</b>

## Texas A&M University-Corpus Christi

**Entry: 1**

**Title:** CRF - S&E FY18

**Description:** Science and Engineering research support.

**Purpose/Intent:** Provide support for faculty in S&E by providing summer support for research development.

**Benefit for the State or Institution:** Support allows faculty to focus on growing research development in order to be competitive for federal research dollars.

Salaries/Wages for New or Reassigned FTEs	\$40,003
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$40,003</b>

**Entry: 2**

**Title:** CRF-Gulf of Mexico Env Lab FY18 - Cost-share

**Description:** Gulf of Mexico Environmental Studies.

**Purpose/Intent:** Support work on the Gulf of Mexico Environmental Lab.

**Benefit for the State or Institution:** Increase ability to submit proposal to federal funding agencies.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$22,200
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$22,200</b>

**Entry: 3**

**Title:** TCRF-HARTE FY18

**Description:** TCRF-HARTE FY18.

**Purpose/Intent:** Fund PhD students particularly those in studies relating to the Gulf of Mexico and artificial reefs and the increasing fish habitats from these structures.

**Benefit for the State or Institution:** Gather data and develop preliminary studies that will be submitted for federal funding.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$49,800
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$49,800</b>

**Entry: 4**

**Title:** Comprehensive Research Unallocated FY18

**Description:** Funds Research Proposals.

**Purpose/Intent:** Funds faculty proposals for research.

**Benefit for the State or Institution:** Increasing the funding available for continued research is vital to becoming an emerging institution. Funds are set aside for reviewing, evaluating and awarding research proposals for the university that will then be federally funded.

Salaries/Wages for New or Reassigned FTEs	\$400
Salaries/Wages for Existing FTEs	\$15,024
Operating Expenses	\$2,610
Capital Expenditures	\$0
<b>Total</b>	<b>\$18,034</b>

**Entry: 5**

**Title:** Addressing cutaneous sensation and associated movement impediments in children with overweight and obesity.

**Description:** This work establishes a basis and need for a vibration intervention that may improve postural control challenges associated with decreased plantar cutaneous sensation in children who are overweight and obese and simulates decreased plantar sensation in healthy young adults by icing their feet (following established protocols) and evaluating the relationships between the foregoing factors.

**Purpose/Intent:** The project aims to investigate: 1) difference in plantar sensation between children who are overweight (not obese), obese, and have healthy weight; 2) differences in postural control between children who are overweight, obese, and have healthy weight; 3) the effect of vibration on postural control; 4) the effect of vibration on foot loading.

**Benefit for the State or Institution:** This work may provide a basis for intervention using ad hoc vibrating insoles to improve postural control and decrease excessive foot loading in children with obesity.

Salaries/Wages for New or Reassigned FTEs	\$608
Salaries/Wages for Existing FTEs	\$7,113
Operating Expenses	\$12,242
Capital Expenditures	\$0
<b>Total</b>	<b>\$19,962</b>

**Entry: 6**

**Title:** CRF-Gulf of Mexico Env Lab FY18

**Description:** Gulf of Mexico Environmental Studies.

**Purpose/Intent:** Support work on the Gulf of Mexico Environmental Lab.

**Benefit for the State or Institution:** Increase ability to submit proposal to federal funding agencies.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$24,176
Operating Expenses	\$109
Capital Expenditures	\$0
<b>Total</b>	<b>\$24,286</b>



**Entry: 7**

**Title:** Center for Coastal Studies

**Description:** CRF Center for Coastal Studies

**Purpose/Intent:** Provide student support for Research Center at Center for Coastal Studies.

**Benefit for the State or Institution:** Increase data collection/analysis and prepare preliminary projects for submission to federal agencies.

Salaries/Wages for New or Reassigned FTEs	\$37,192
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$6,866
Capital Expenditures	\$0
<b>Total</b>	<b>\$44,058</b>

**Entry: 8**

**Title:** Deep Perception with and beyond visual sensors

**Description:** This is for Post Doc salary support for the titled research.

**Purpose/Intent:** The funding is to pay for a Post Doc under Dr. Maryam Rahnemoonfar of College of Science and Engineering.

**Benefit for the State or Institution:** Post-doc teaches a course spring, summer, fall each year. Post-doc also write proposal to enhance the University's visibility in research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$10,924
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$10,924</b>

**Entry: 9**

**Title:** Effect of climate change on coastal stream ecosystems

**Description:** The research studies the effect of climate change on coastal stream ecosystems.

**Purpose/Intent:** The research aims to test a conceptual model of how stream ecosystem structure and function will change in response to climate change using a space for time approach that takes advantage of the unique precipitation gradient that exists along the South Texas coastline.

**Benefit for the State or Institution:** This work will greatly increase our understanding of how climate change will affect stream ecosystems and will set the stage for several competitive future proposals to NSF. This presents a unique opportunity to disentangle precipitation effects from other covarying factors like underlying geology and temperature. Furthermore, the work will also add to our basic understanding of arid and semi-arid stream ecosystems, an understudied system despite the fact that drylands make up 41% of the world's land cover. Finally, this work will enhance our understanding of the ecology of South Texas coastal streams.

Salaries/Wages for New or Reassigned FTEs	\$1,528
Salaries/Wages for Existing FTEs	\$9,858
Operating Expenses	\$8,542
Capital Expenditures	\$0
<b>Total</b>	<b>\$19,927</b>

**Entry: 10**

**Title:** Multi-Resolution Modeling Framework for Large-scale Dynamical Systems

**Description:** The objective of this proposal is to exploit an innovative modeling framework to facilitate real-time management of large-scale dynamical systems.

**Purpose/Intent:** The research aims to build a multiresolution modeling framework which leverages big-data techniques to break the curse of dimensionality and allows control strategies to be designed incrementally and sequentially for higher performance.

**Benefit for the State or Institution:** The tools developed in this project are envisioned to produce transformative impact on large-scale dynamical system research by providing a scalable, efficient, veracious and flexible evaluation and design foundation, which is a critical step towards achieving real-time decision making. Various applications will benefit from this study, including but not limited to management of road/air traffic flows, power networks, ecosystems, and information systems.

Salaries/Wages for New or Reassigned FTEs	\$2,948
Salaries/Wages for Existing FTEs	\$17,146
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$20,093</b>

**Entry: 11**

**Title:** A UAV based Multi-Source & Spatio-Temporal Machine Learning Framework for Cotton Breeding Research

**Description:** The main objective of this project is to develop a novel machine learning framework that will analyze multi-source and spatio-temporal remote sensing data collected from Unmanned Aerial System (UAS) for cotton genotype selection.

**Purpose/Intent:** The scope under the objective includes 1) development of automatic phenotypic feature extraction algorithms from the multi-source and spatio-temporal UAS data, 2) adaptation of the deep learning algorithm to develop a cotton genotype selection model using the extracted features, and 3) validation of the developed model using the ground reference data.

**Benefit for the State or Institution:** The proposed machine learning framework is expected to revolutionize cotton breeding research by providing valuable tools to cotton breeders so that they can not only increase their experiment size for faster genotype selection but also make efficient and informed decision on best performing genotype selection. Eventually, platforms, data processing & feature extraction procedures, and machine learning framework obtained through this project will benefit farmers and crop consultants nationwide in the form of precision management applications based on the UAS technology.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$18,000
Operating Expenses	\$1,970
Capital Expenditures	\$0
<b>Total</b>	<b>\$19,970</b>

**Entry: 12**

**Title:** Identification of microorganisms associated with the termination of a harmful algal bloom

**Description:** The proposed project will identify the microorganisms associated with the termination of a harmful algal bloom.

**Purpose/Intent:** The research proposes to utilize high-resolution metagenome sequencing to identify the microorganisms associated with the termination of a brown tide bloom. The PI hypothesizes that algicidal bacteria and viruses facilitate bloom termination by preying upon the abundant algae.

**Benefit for the State or Institution:** The proposed project will enhance interdisciplinary collaborations at Texas A&M - Corpus Christi (TAMU-CC), as Dr. Turner will work closely with Dr. Mike Wetz to accomplish the project goal. The proposed project will also expand an ongoing collaboration with Del Mar College, which has expertise in the characterization of viruses that prey on harmful bacteria. The aim of that collaboration is to use viral research as a bridge between a two-year college and a four-year university. To strengthen that collaboration, the proposed project will be the foundational research project for undergraduate Mr. Danial Nasr, who is the first student to cross this bridge between Del Mar College and TAMU-CC.

Salaries/Wages for New or Reassigned FTEs	\$5,244
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$14,406
Capital Expenditures	\$0
<b>Total</b>	<b>\$19,650</b>

**Entry: 13**

**Title:** Coastal wetland state shifts and decomposition rates: implications for carbon storage

**Description:** This is for Post Doc salary support for the titled research.

**Purpose/Intent:** The funding is to pay for a Post Doc under Dr. Edward Proffitt of College of Science and Engineering.

**Benefit for the State or Institution:** Post-doc teaches a course spring, summer, fall each year. Post-doc also write proposal to enhance the University's visibility in research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$29,167
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$29,167</b>

**Entry:** 14

**Title:** TCRF - Discretionary FY18

**Description:** Funds research development and administration.

**Purpose/Intent:** This is to support development and administration expense.

**Benefit for the State or Institution:** Research development and administration is an important part in assisting faculty with their research initiatives as well as driving the University in the path to become an emerging research institution.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$250,459
Operating Expenses	\$6,513
Capital Expenditures	\$0
<b>Total</b>	<b>\$256,972</b>

**Entry:** 15

**Title:** "Employee Compensation and Labor Supply Responses" and "Effectiveness of International Treaties on Women's and Girls' Educational Outcomes"

**Description:** This is travel support for the PI to conduct the titled research.

**Purpose/Intent:** The main purpose of the travel is to take up residence as a Visiting Research Scholar in the Department of Economics at the Deakin University, Melbourne Australia, and to present at research seminars at 2 Australian Universities for a portion the spring semester of 2018.

**Benefit for the State or Institution:** The benefit would be several high-quality peer-reviewed publications at highly-ranked journals and enhanced networking opportunities with colleagues at a world-renowned University, which will undoubtedly lead to research collaborations. In addition, the PI will have opportunities to present her work at these institutions. The benefit to the College of Business would be that a faculty member from TAMU-CC would be representing the University at these world-class institutions. At the university level, this opportunity will help TAMU-CC to become more visible in Australia and potentially open doors for a student exchange program, which would directly benefit our students, college and university.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$5,007
Capital Expenditures	\$0
<b>Total</b>	<b>\$5,007</b>

**Entry:** 16

**Title:** Humanities Speaker Series

**Description:** This promotes research in the Humanities department by engaging faculty in organization in external research talk and presenting their work.

**Purpose/Intent:** It promotes research culture in the Humanities department and the department of English.

**Benefit for the State or Institution:** This supports faculty research and engages students in Humanities research. Hence the guest speaker is open to the public.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$2,191
Operating Expenses	\$1,809
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,000</b>

**Entry:** 17

**Title:** NOYCE travel - Attend the Alliance for Community-Engaged Teacher Preparation

**Description:** This is travel support for the Alliance for Community-Engaged Teacher Preparation.

**Purpose/Intent:** The Robert Noyce Teacher Scholarship Program seeks to encourage talented Science, Technology, Engineering and Mathematics (STEM) majors and professionals to become secondary mathematics and science (including engineering and computer science) teachers. The program invites creative and innovative proposals that address the critical need for recruiting and preparing highly effective secondary mathematics and science teachers in high-need local educational agencies. The PIs intend to incorporate the Schools Within the Context of Community (SCC) program into the NOYCE proposal, a unique approach to teacher preparation. Created in 2009, SCC has been receiving attention for its efforts to prepare culturally responsive, community-engaged teachers. The program is profiled in several research articles, and is fully explained in the book Transforming Teacher Preparation for Social Justice (Zygmunt & Clark, 2015).

**Benefit for the State or Institution:** This conference serves as a research hub for creating innovative teacher preparation space and is a national teacher education training site. Faculty involved in the Alliance experiment with culturally responsive practices that will improve education outcomes for students locally and nationally. This hub has been derived from careful and thoughtful experimentation with community-engaged teacher preparation, the research from which is nationally disseminated. The Alliance also serves as a national research distribution network – collecting, showcasing, and sharing best practices in community -engaged teacher preparation from colleges and universities throughout the country. Having the experience and training provided by the three-day institute will undoubtedly not only strengthen the 2018 NOYCE proposal, but will provide solid evidence of the commitment to this project by the principal investigators and TAMU-CC.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,690
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,690</b>

**Entry:** 18

**Title:** Collaborative Research: Cycling and Transformations of Dissolved Organic Matter in Oxygen Minimum Zones

**Description:** This proposal is to apply a novel combination of biomarker and comprehensive dissolved organic matter analyses tools to understand production, transformations and decomposition of dissolved organic matter (DOM) within oxygen minimum zones (OMZ).

**Purpose/Intent:** The ultimate goal is to describe fundamental mechanisms that link elemental stoichiometries, chemical composition and metabolic capabilities of microbial communities with cycling of bioactive elements within OMZs and its importance to the global ocean.

**Benefit for the State or Institution:** The outcome from this study will give better understanding formation of hypoxia condition in Texas costal regions. Even though, the importance of DOM in driving biogeochemical cycles in hypoxia regions has been noted but almost no data exists on the molecular and chemical composition of DOM in these zones. Achieving the main objective will improve our very limited understanding of DOM biogeochemistry within hypoxia and provide insights into the role of DOM in regulating its formation.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,600
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,600</b>

**Entry:** 19

**Title:** TRDF - OSRS ASSESSMENT FEES FY18

**Description:** This is to fund OSRS Assessment Fees for TAMU-CC.

**Purpose/Intent:** The funding is used to pay for SRS to process faculty's proposals.

**Benefit for the State or Institution:** SRS has the expertise and consistent and efficient procedures to enhance research administration. This helps make the proposals more competitive for funding opportunities. It also saves a lot of time for the University and faculty.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$271,145
Capital Expenditures	\$0
<b>Total</b>	<b>\$271,145</b>

**Entry: 20**

**Title:** Quantification and source-tracking of elevated bacterial concentrations in Little Bay, Texas

**Description:** The student will collect and analyze environmental water samples for the presence of 1) fecal indicator bacteria and 2) specific host-associated markers of fecal indicator bacteria (i.e., dog, human and bird).

**Purpose/Intent:** The purpose of this project is the quantification and source-tracking of fecal indicator bacteria in Little Bay, Texas. The project was initiated in collaboration with the Aransas County Navigation District (ACND) in response to a total maximum daily load (TMDL) investigation following a history of elevated bacterial levels.

**Benefit for the State or Institution:** Bacterial source-tracking is in high demand as many water segments along the Coastal Bend experience bacterial levels that exceed the EPA's recommendation for recreational water quality. The PI's laboratory is currently completing its first source-tracking project in Corpus Christi Bay, and is negotiating a contract to start a third project in Oso Bay. These projects provide local and state officials and agencies with data that guides coastal management decisions.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$770
Capital Expenditures	\$0
<b>Total</b>	<b>\$770</b>

**Entry: 21**

**Title:** Characterizing and quantifying plastic debris using unmanned aircraft systems (UAS)

**Description:** Plastic debris is a threat to ocean, organismal and coastal economic health. While general estimates exist for plastic loading to the ocean, significant research is needed to determine its environmental fate. This work is essential to determining the scale of the problem, understanding its potential impacts and societies' ability to work towards a solution.

**Purpose/Intent:** The objective of this research is to improve understanding of the beached plastic portion of the global plastic budget. To accomplish this objective, the PIs will develop a remote sensing method to quantify and characterized plastic debris on beaches and near-shore environments using unmanned aircraft systems (UAS).

**Benefit for the State or Institution:** The research proposed here, while not able to remove debris, would provide an alternative method that could collect data at broader spatial scales and shorter time intervals. This higher spatial and temporal resolution data is vital to understanding beached plastic accumulation, quantifying amounts and informing policy decisions. Using methods developed with TCRF funding, future studies could quantify the beached plastic component of the global plastic budget, thereby increasing global awareness of this issue and support efforts to mitigate plastic pollution.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$7,500
<b>Total</b>	<b>\$7,500</b>

**Entry: 22**

**Title:** TCRF - S&E - MARB/CMSS FY18

**Description:** Provide graduate assistants the opportunity to assist with teaching research methods on campus and to participate in various research projects.

**Purpose/Intent:** Cultivates a stronger research environment for students at TAMU-CC, particularly relating to Marine Biology and Coastal Marine System Science, and develop preliminary studies that can then be submitted for federal funding.

**Benefit for the State or Institution:** Increase awareness and interest in research participation to leverage for federal funding to the state of Texas.

Salaries/Wages for New or Reassigned FTEs	\$236,754
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$236,754</b>

**Entry: 23**

**Title:** College of Liberal Arts Support

**Description:** This funds the support for College of Liberal Arts.

**Purpose/Intent:** The fund assists with the enhancement of the college's research infrastructure.

**Benefit for the State or Institution:** The fund enhances the college's research infrastructure, thus improving its research capabilities. This will help with proposal submissions in the future which will then bring recognition and enhance the University's visibility in research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$792
Capital Expenditures	\$0
<b>Total</b>	<b>\$792</b>



**Entry: 24**

**Title:** Advancing Recreational Fisheries Policy and Management in an Evolving Cuba

**Description:** This is travel support for the PI to conduct the titled research.

**Purpose/Intent:** The project proposes to identify and pilot test sustainable ecotourism alternatives that can help local communities and CNP authorities improve the management of recreational fisheries.

**Benefit for the State or Institution:** The PIs will be submitting applications to the National Science Foundation and to the Wenner Gren Foundation in the next six months for potential funding. Products from this project include, updated stock and habitat assessments, local capacity development and training workshops, management policies and strategies, development of livelihood options, increase in stewardship practices and community involvement, and design of ecotourism/sustainable tourism practices. As a direct outcome of this travel grant it is anticipated that two articles will be produced for publication on fishing dependence and local sustainable strategies and on recreational fisheries in Cuba. Finally, support from this grant will allow the main PI to complete two additional articles on HRI-UH collaborative efforts in Cuba and on landscape and environmental use changes in CNP.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,722
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,722</b>

**Entry: 25**

**Title:** An integrated characterization and simulation system for microplastics in coastal watersheds

**Description:** This project addresses an urgent need to better understand the emerging microplastic pollution in the context of coastal environmental sustainability and water security.

**Purpose/Intent:** The proposed research is aimed at developing a watershed-scale quantitative understanding of the spatial distribution, transport and accumulation of microplastics in coastal watersheds.

**Benefit for the State or Institution:** This will improve the development and applications of advanced technologies in sensors, high-performance numerical simulation and unmanned aircraft systems, resulting in contributions to the fields of civil engineering, electrical engineering and geospatial sciences. Such efforts are aligned with TAMU-CC's strategic research priorities in waterenergy-food nexus and unmanned aircraft systems.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$131
Capital Expenditures	\$0
<b>Total</b>	<b>\$131</b>

## Texas A&M University-Kingsville

### Entry: 1

**Title:** Citrus Center

**Description:** Research salary support for this large research component of the University.

**Purpose/Intent:** The Citrus Center provides research and service support to the multimillion dollar Texas citrus industry and develops future leaders through academic training of graduate students. It focuses on citrus variety development, pest and disease control, plant physiology, soil science and irrigation technology, using both established and cutting edge technologies.

**Benefit for the State or Institution:** The Citrus Center is the only state funded research facility dedicated to serving the Texas citrus industry. Over 1,900 industry jobs are currently provided, and increased plantings resulting from acreage reduction in Florida caused by disease, weather and urbanization, will provide increased employment opportunities. A large Californian citrus company has also recently acquired extensive citrus acreage in South Texas, which bodes well for the future of the industry. It is propagating large numbers of new trees for expanding its citrus acreage. The citrus industry faces threats from endemic and exotic pests and diseases, as well as water issues, and faculty at the Citrus Center are leading research programs to counter these threats, thereby enabling the industry to remain profitable.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$343,254
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$343,254</b>

### Entry: 2

**Title:** Undergraduate Research Support - Office of Student Access

**Description:** This project encourages the engagement of undergraduate students to participate in research in various disciplines within the Office of Student Access.

**Purpose/Intent:** The purpose of this project is to increase participation of undergraduate students in research and presentations. These funds provide the opportunity for students to engage in high impact research practices within their field of study.

**Benefit for the State or Institution:** By providing these types of research opportunities, the University advances new knowledge for students and faculty. Students who engage in these kinds of projects are more likely to reach degree completion and further their education, potentially here at Texas A&M University-Kingsville.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$308
Capital Expenditures	\$0
<b>Total</b>	<b>\$308</b>

**Entry: 3**

**Title:** Library Research Acquisitions

**Description:** The funding provided access to several major online resources for the Library.

**Purpose/Intent:** One resource is the Social Work Reference Center that provides information for the University's social work program. Three online journals (Journal of Head Trauma and rehabilitation, Medicine and Science in Sports and Exercises, and Strength and Conditioning Journal) support the general curriculum, especially kinesiology. JSTOR (Journal Storage) was also included and involved four collections that helped assist the biological sciences, humanities, music, and etc.

**Benefit for the State or Institution:** All of these products are important resources for students and faculty and are essential for the mission of the University and especially for particular programs. These resources are available online and are accessible by the University community from any Internet-connected computer or device.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$15,000
Capital Expenditures	\$0
<b>Total</b>	<b>\$15,000</b>

**Entry: 4**

**Title:** Research Support - Department of Psychology

**Description:** This project encourages the engagement of undergraduate students to participate in research in various disciplines within the Department of Psychology.

**Purpose/Intent:** The purpose of this project is to increase participation of undergraduate students in research and presentations. These funds provide the opportunity for students to engage in high impact research practices within their field of study.

**Benefit for the State or Institution:** By providing these types of research opportunities, the University advances new knowledge for students and faculty. Students who engage in these kinds of projects are more likely to reach degree completion and further their education, potentially here at Texas A&M University-Kingsville. This project may also assist professors with seed monies for externally funded projects.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$594
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$594</b>

**Entry: 5**

**Title:** Faculty Start Up Funds - College of Agriculture

**Description:** These funds were used to assist new researchers as well as prioritized college internal research projects within the College of Agriculture.

**Purpose/Intent:** To provide startup funding for the collection of preliminary data, analysis and results to help establish research agendas and for use in external research proposals.

**Benefit for the State or Institution:** This funding promotes and facilitates research capacity building for the entire university, colleges, departments and individual faculty.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$21,130
Operating Expenses	\$2,095
Capital Expenditures	\$10,275
<b>Total</b>	<b>\$33,500</b>

**Entry: 6**

**Title:** Faculty Start Up Funds - College of Arts and Sciences

**Description:** These funds were used to assist new researchers as well as prioritized college internal research projects within the College of Arts and Sciences.

**Purpose/Intent:** To provide startup funding for the collection of preliminary data, analysis and results to help establish research agendas and for use in external research proposals.

**Benefit for the State or Institution:** This funding promotes and facilitates research capacity building for the entire university, colleges, departments and individual faculty.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$5,140
Operating Expenses	\$6,663
Capital Expenditures	\$0
<b>Total</b>	<b>\$11,803</b>

**Entry: 7**

**Title:** Faculty Start Up Funds - College of Education

**Description:** These funds were used to assist new researchers as well as prioritized college internal research projects within the College of Education.

**Purpose/Intent:** To provide startup funding for the collection of preliminary data, analysis and results to help establish research agendas and for use in external research proposals.

**Benefit for the State or Institution:** This funding promotes and facilitates research capacity building for the entire university, colleges, departments and individual faculty.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$16,751
Capital Expenditures	\$0
<b>Total</b>	<b>\$16,751</b>

**Entry: 8**

**Title:** Texas A&M University-Kingsville University Research Awards

**Description:** The University Research Award provides seed money for research projects that have high potential to secure external funding. Interdisciplinary proposals among the University Colleges are encouraged.

**Purpose/Intent:** The intent is to facilitate research capacity through demonstrated quality research and enrichment of the research environment at Texas A&M University-Kingsville through external funding and scholarly publications.

**Benefit for the State or Institution:** The expected outcome is to provide funding for research pilot studies that will result in an increase in grant proposals, grant awards, and research expenditures at Texas A&M University-Kingsville.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$930
Operating Expenses	\$141
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,071</b>

**Entry: 9**

**Title:** Designing, Prototyping, and Testing Solar Tracking Systems for Less Power Consumption

**Description:** Solar tracking systems align solar panels toward the sun to increase energy harvesting. To maximize energy capture, solar panels track the maximum sunlight throughout the day to maximize energy harvest. The sun travels from east to west during the daytime, and also moves up and down or north and south due to the earth's tilt. An active dual-axis solar tracker can ensure that the solar panel is perpendicular to sunlight because of its two degrees of freedom that act as axes of two independent rotations. Although dual-axis solar trackers remarkably improve power generation, they also consume considerable power since two independent rotations are driven by two stepper motors. Less than 10% power generation was harvested by the Texas A&M University-Kingsville solar tracker when the power consumption from the two stepper motors was considered. The merits of dual-axis solar trackers are severely compromised by their motor power consumption. The goal of this project is to not only fully fulfill solar tracking function but also significantly reduce motor power consumption through developing solar tracking systems. The innovative solar trackers developed from this project will put Texas A&M University-Kingsville at the front of solar tracking research area.

**Purpose/Intent:** The intent is to develop a portable solar panel tracking system that can be utilized on cruise ships and battle ships for the Navy or military. The main goal is to raise the efficiency of the solar panel tracking systems.

**Benefit for the State or Institution:** In Texas, energy harvesting from the sun has gained popularity. There is plenty of sunlight during summer, so as the triple-digit temperature. Mother nature definitely provides us a prime location to carry this type of research at Texas A&M University-Kingsville. With the improvement in the net energy harvest, the portable solar tracking systems can find the applications in many areas, and it will not take many people to manufacture the system.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,998
Operating Expenses	\$4,090
Capital Expenditures	\$0
<b>Total</b>	<b>\$6,088</b>

**Entry: 10**

**Title:** Examining the Components of Reading in Adults and Children

**Description:** Reading is a multi-faceted ability that is composed of many cognitive resources (e.g., vocabulary knowledge, working memory), cognitive processes (e.g., memory, inferencing, knowledge-based inferencing), and knowledge about strategies. The goal of this project is to use modern techniques/technology, such as structural equation modeling, and eye-tracking technology to determine which cognitive resources, cognitive processes, and strategies are most important to be a successful reader.

**Purpose/Intent:** To assist student research assistants during the collection and who will help Collect/Analyze data that can be used for (i) grant proposals, and (ii) to generate manuscripts.

**Benefit for the State or Institution:** This funding assisted in exposing students (majority being minority students) to search for research opportunities. The resulting analyzed data may also be used for future grant proposals submitted by Texas A&M University-Kingsville.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$6,187
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$6,187</b>

**Entry: 11**

**Title:** Development of Stem Cell-based Model System To Study Neurodegenerative Diseases

**Description:** Currently, induced-pluripotent stem cells (iPSC) and genome editing technologies are leading the new era of biomedical sciences. The iPSCs can give rise to any cell types in the body including neurons. The CRISPR/Cas9-mediated genome editing technique is the most versatile and precise tool to modify any disease-causing mutations in live cells and organisms. Therefore, two techniques currently provide the base of novel gene- and cell replacement-therapies to treat many incurable genetic diseases in human as well as providing the great tool to study the function of genes. In this project, we will develop iPSC-based cellular model system to study neurodegenerative diseases such as Alzheimer's diseases.

**Purpose/Intent:** The Principal Investigator intends on: 1) developing a platform to perform CRISPR/Cas9-mediated genome editing in iPSCs. Establishing this platform will allow us to study the function of genes by modifying the expression pattern or the sequence of specific genes; 2) developing a platform to grow and engineer iPSCs and drive them to neuronal and other cell-types in cell culture system. The combination of the two techniques will allow us to study the function of specific genes in specific cell-types; and 3) by utilizing iPSCs and genome editing techniques, it is planned to study the function of DNA repair genes in neurons and their roles in neurodegenerative diseases including Alzheimer's disease.

**Benefit for the State or Institution:** Successful completion of this project will enhance this particular research program, produce strong preliminary data to prepare competent research proposals at Texas A&M University-Kingsville to, and assist in securing external grants such as the NIH SCORE and AREA grants. This could also impact the publication of these studies in high impact journals. Furthermore, we will be the first institute to have this cutting-edge type of research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$6,831
Capital Expenditures	\$8,169
<b>Total</b>	<b>\$15,000</b>

**Entry: 12**

**Title:** Texas A&M University-Kingsville University Research Awards

**Description:** The University Research Award provides seed money for research projects that have high potential to secure external funding. Interdisciplinary proposals among the University Colleges are encouraged.

**Purpose/Intent:** The intent is to facilitate research capacity through demonstrated quality research and enrichment of the research environment at Texas A&M University-Kingsville through external funding and scholarly publications.

**Benefit for the State or Institution:** The expected outcome is to provide funding for research pilot studies that will result in an increase in grant proposals, grant awards, and research expenditures at Texas A&M University-Kingsville.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$162
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$162</b>

**Entry: 13**

**Title:** Graduate Research for Global Perspectives of Rural Mental Health Research in Counseling and Guidance

**Description:** Data was collected from the rural/remote regions of Scotland and South Texas that indicated similarities in terms of disparities of resources, availability of mental health professionals, and unique social and cultural challenges within those regions. The funding assisted in supporting a graduate research assistance which helped give the Counseling and Guidance program an opportunity to collaborate with the University of the Highlands and Islands in Scotland. This collaboration is vital for a more vibrant understanding of rural/remote needs in the area of mental health.

**Purpose/Intent:** The graduate research assistant involved will provide the principal investigator (Dr. Steve Bain) with the needed manpower to mine the data, write annotated bibliographies on the current research, and assist in developing presentation/publication material on global perspectives of rural mental health. This material will be included in book and journal article publications.

**Benefit for the State or Institution:** Since this type of research is very unique in regards to the similar populations in South Texas and Scotland, data collected will be of utmost importance in understanding global similarities of rural mental health and how to develop a strategic plan to provide services to those communities.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$7,139
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$7,139</b>

**Entry:** 14

**Title:** Exploring Landscape Ecology with Bee-bot Robots

**Description:** Attracting under-represented students to STEM (fields of science, technology, engineering, and math) related careers is a continuing challenge and particularly acute in computer science and landscape ecology. Also coupled with this trend is children’s declining interest in experiencing the outdoors and lack of exposure to and knowledge of local ecosystems. However, early intervention of robotics and environmental science programs in elementary grades hold particular promise in attracting students to STEM careers. This funding will assist with the testing of an interdisciplinary problem-based environmental curriculum for second graders who will study wildlife, landscape ecology, and robotic programming. The research will investigate the use of Bee-bot robots and landscape ecology on 2nd graders’ understandings of animal adaptations, food web interactions, landscape/map interpretation, and their interest in STEM related careers. This research will use a mixed methods approach that combines quantitative and qualitative techniques. The students will demonstrate their understanding of local food web interactions and their distribution in the landscape by programming Bee-bot robots to navigate through different landscapes (obstacle course maps) to obtain their basic needs (food, water, and shelter) and avoid obstacles (e.g. urban areas and predators). The curriculum will align with state and national standards for 2nd grade, covering topics in science, geography, and written and oral communication.

**Purpose/Intent:** The objectives of this project are: 1) to develop and test a problem-based environmental curriculum for 2nd graders that incorporates robotic programming, animal adaptations and food web interactions, basic landscape ecology concepts, and map interpretation skills, 2) to provide professional development and materials for teachers to implement this particular curriculum, 3) 2nd graders will successfully be able to interpret landscape map components, program animal robots through the landscape map, & be able to explain the ecosystem interactions, 4) and to be able to develop a grant proposal to expand this curriculum to a larger group and different grade levels.

**Benefit for the State or Institution:** This project will address a need for STEM-based curriculum in elementary schools across the State. It will assist with the training of grade school teachers on using problem-based techniques for student learning in the classroom. It will provide teachers with materials for use after program completion. It will facilitate a connection between elementary schools and Texas A&M University-Kingsville. It will provide research opportunities on student learning, retention of concepts, and attitudes towards STEM related careers in the future.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,272
Operating Expenses	\$6,052
Capital Expenditures	\$0
<b>Total</b>	<b>\$7,324</b>



**Entry:** 15

**Title:** Performance Analysis and Experimental Investigation of a Solar-thermal Powered Adsorption Cooling System

**Description:** Air-conditioning accounts for the significant portion of the primary energy use in buildings, and solar-thermal driven adsorption cooling technology has a great potential in reducing primary energy demand. Adsorption cooling relies on the adsorption of a refrigerant on a porous material which plays an important role in the overall system performance. This project aims to develop enhanced porous materials and to simulate the performance of an adsorption cooling system to maximize the solar fraction by testing different strategies.

**Purpose/Intent:** The purpose of this project is to better understand the economic and technical feasibility of the solar-thermal powered adsorption cooling technology for South Texas. Additionally, this project will explore the use of novel porous materials such as metal organic frameworks in adsorption cooling applications.

**Benefit for the State or Institution:** Texas is one of the states with abundant sunshine throughout the year. As a result, there is a significant air conditioning need during hot and humid summer months especially in South Texas. Unfortunately, utilization of solar energy in Texas is very limited. This project will explore the feasibility of using solar-thermal adsorption cooling technology for residential applications to reduce energy use in buildings located in Texas. This project will also advance the research output in the solar-thermal adsorption cooling area in Texas A&M University-Kingsville (TAMUK). This project will help training undergraduate and graduate students at Texas A&M University-Kingsville in this novel research area as well.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$13,803
Capital Expenditures	\$0
<b>Total</b>	<b>\$13,803</b>

**Entry:** 16

**Title:** Blueprints of Energy-Smart Communities in South Texas

**Description:** Low-income households shoulder high burden on energy costs, dedicating 16.3% of their household income on energy spending. However, those low-income households are often the groups of less energy awareness and cause extra unnecessary usage. In nowadays housing market, most affordable homes are extremely energy inefficient. In South Texas, most residents have low socioeconomic status but greater and longer requirements for air conditioning due to the hot and humid weather. The housing market of this area represents robust increase. Unfortunately, affordable housing developers lack the modeling tools, technology packages and resident engagement strategies to deliver energy-smart solutions. To address these problems, a multidisciplinary team was formed with expertise on building science, energy systems, control theory, and power grid. The vision is a world where affordable housing is energy smarter with low pollution from fossil fuels and the working-class families have more disposable income saved from energy spending, through our research on smart and connected residential community solutions (SCRC) in South Texas.

**Purpose/Intent:** To accomplish the vision, the main research objectives are: (1) construct a showcase to demonstrate and promote the SCRC concept; (2) Develop energy simulation model and online monitoring/diagnosis tool for community energy management; (3) develop a prototype of an embedded digital control system for optimal conversion and controlling two-way power flow and grid integration between grid and communities; and (4) optimize grid planning and operation considering connected communities.

**Benefit for the State or Institution:** The proposed research is critical and holds potential to shape the energy infrastructure of future small towns, university campuses, military bases, etc. It is well aligned with research efforts at National Science Foundation (NSF 17-521, NSF-EPCN), Department of Energy (Zero Energy Ready Home), ASHRAE, and the Energy Foundation to advance energy sustainability. Besides, it is the priority to create educational/training opportunities for students at Texas A&M University-Kingsville plus local K-12 schools, and establish and maintain collaborative relationships with industry/community partners.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$8,907
Operating Expenses	\$4,962
Capital Expenditures	\$0
<b>Total</b>	<b>\$13,869</b>

**Entry: 17**

**Title:** Revealing the Diversity and Conservation in the Microbiome of Closely Related Rodents

**Description:** Microbes are intimate and active participants in the health and well being of all matter of life. From the nitrogen fixation of soil microbes, to saprobic recycling of nutrients, or digestion of plant materials or foodstuffs within intestinal tracts, appreciation for microbial roles in ecology and their contribution to health continues to challenge our fundamental understanding of life. For intestinal bacterial communities, populations participate in an iterative process with their symbiotic host. The host influences the microbial population by diet, underlying genetics, immune function, social interactions, and habitat selection. In turn, the microbiota affect the host through extraction of nutritional goods from foodstuffs, production of vitamins and metabolites, protection of the local environment from pathogenic species, and amelioration of immune targeting and function. Despite this highly dynamic and seemingly stochastic environment, consistencies in the intestinal flora have been observed between hosts of the same species. Surprisingly, specific enterotypes, or clusters of bacteria characterized by a single microbial genus, have been identified in humans, chimpanzees, and mice. Prevailing research has focused on microbiota from hosts within the same species under different environmental conditions in controlled laboratory settings. While highly regimented work has made significant contributions towards understanding host–microbiota interactions, the narrow focus leaves many questions about the broader relationships governing the co-evolution of host and microbiota. To better understand the complexity and biodiversity present in the microbiome of metazoan, the scope of the research will be to analyze the intestinal content of related, but diverse members from the same trophic level found in overlapping habitats of the same ecosystem. The hypothesis is that animals from the same trophic level with overlapping habitats and nutritional requirements will have similar intestinal microbiota populations as identified by enterotype and biodiversity, but demonstrate unique genus and average population structure based on specific niche preferences and dietary requirements.

**Purpose/Intent:** Given the source and novelty of these samples, it is imperative that utilization of as much of the sample is completed. A "Samples Collection Rubric" has been devised to ensure all samples are identified, collected, and documented. Technical experts have been contacted– including sequencing, bioinformatics, metabolites, and ecology– to ensure the data analyses and conclusions are sound and appropriate. The short-term objectives are broad, but highly overlapping and reflect the commitment to exhaust information and observations from collected samples: 1) comparison of intestinal microbiota biodiversity by 16S RNA sequencing; 2) comparison of intestinal anatomy and morphology; 3) identify the presence of prominent metabolites in each sample; 4) enrichment and propagation of Salmonella spp. from intestinal microbiota.

**Benefit for the State or Institution:** In addition to increasing the understanding of host: microbe relationships in closely related rodent species, this project initiates several lines of collaboration with Tier 1 research institutions and Texas A&M University-System Partners. Importantly, this work has already established new working collaborations with researchers at University of Houston and Texas A&M University and resulted in promising preliminary data. The long term goals for this research will be to establish meaningful and productive collaborations with faculty at Texas A&M University-Kingsville and elsewhere, raise the research profile of the University by publishing at least two manuscripts in mainstream competitive peer reviewed journals, and use the results as preliminary data and proof-of-concept material for grant submission to National Science Foundation, Department of Energy, National Institute of Health, or United States Department of Agriculture.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$4,648
Operating Expenses	\$10,288
Capital Expenditures	\$0
<b>Total</b>	<b>\$14,936</b>

**Entry:** 18

**Title:** Faculty Start Up Funds - College of Engineering

**Description:** To support doctoral program funding aligned with the establishment of research as well as prioritized college internal research projects.

**Purpose/Intent:** To provide funding for the college doctoral programs in order to enable data collection, analysis, and results which will help establish program, department, and college research agendas in developing external research proposals.

**Benefit for the State or Institution:** This funding promotes and facilitates research capacity building for doctoral programs throughout the college, its departments, and individual faculty.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$73,444
Operating Expenses	\$74,354
Capital Expenditures	\$0
<b>Total</b>	<b>\$147,798</b>

**Entry:** 19

**Title:** Development of Advanced Cellular Assay to Detect Effects on Structural Neuronal Plasticity and Neurite Regeneration

**Description:** Promoting nerve regeneration in the central nervous system of humans is an important biomedical challenge, with implications for humans suffering from paralysis due to spinal cord injury, blindness from optic nerve damage, etc. Scientists have discovered several genes that encode proteins that facilitate nerve regeneration (our laboratory cloned one of these genes, which encodes the protein zRICH that promotes structural plasticity by enhancing the formation of new neurite branches). The proposal explains the use of advanced cell biology technologies with the pro-neuronal PC12 cells to develop a method to detect the effect of expressing proteins related to nerve regeneration on the ability of neurons to generate neurite branches (using the gene encoding zRICH as a model).

**Purpose/Intent:** The objectives of this project are: 1) to use stable transfectant PC12 cells that express the zRICH protein fused to a fluorescent marker molecule (RFP) and control cells expressing only RFP to perform neuronal differentiation experiments and take photomicrographs of the neurons; 2) to test various morphometric analysis methods with the photomicrographs to optimize the detection of the effects of the zRICH protein on neuritogenesis.

**Benefit for the State or Institution:** This project is a good investment for the state and institution since a sensitive cellular method to detect effects on neuritogenesis would be a valuable tool to study genes involved in nerve regeneration (and ultimately to advanced therapies to enhance regeneration in humans). The results will enhance the possibility of receiving sustained federal support from the NIH for the research projects of Dr. Perez-Ballesterro. Additionally, the student involved in the project (Mr. Victor A. Villarreal) will be provided with experience in bioinformatics and cellular biology technologies, skills that are applicable for biotechnology and biomedical research in academic and industrial settings. He will also develop his written and oral communication skills by presenting his results at a scientific meeting.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$6,955
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$6,955</b>

**Entry: 20**

**Title:** Research Support - Department of Chemical Engineering

**Description:** This project encourages the engagement of undergraduate students to participate in research in various disciplines within the Department of Chemical Engineering.

**Purpose/Intent:** The purpose of this project is to increase participation of undergraduate students in research and presentations. These funds provide the opportunity for students to engage in high impact research practices within their field of study.

**Benefit for the State or Institution:** By providing these types of research opportunities, the University advances new knowledge for students and faculty. Students who engage in these kinds of projects are more likely to reach degree completion and further their education, potentially here at Texas A&M University-Kingsville. This project may also assist professors with seed monies for externally funded projects.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$3,090
Operating Expenses	\$1,349
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,439</b>

**Entry: 21**

**Title:** Research Support - Department of Environmental Engineering

**Description:** This project encourages the engagement of undergraduate students to participate in research in various disciplines within the Department of Environmental Engineering.

**Purpose/Intent:** The purpose of this project is to increase participation of undergraduate students in research and presentations. These funds provide the opportunity for students to engage in high impact research practices within their field of study.

**Benefit for the State or Institution:** By providing these types of research opportunities, the University advances new knowledge for students and faculty. Students who engage in these kinds of projects are more likely to reach degree completion and further their education, potentially here at Texas A&M University-Kingsville. This project may also assist professors with seed monies for externally funded projects.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$243
Operating Expenses	\$4,024
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,267</b>

**Entry: 22**

**Title:** Research Support - Department of Chemistry

**Description:** This project encourages the engagement of undergraduate students to participate in research in various disciplines within the Department of Chemistry.

**Purpose/Intent:** The purpose of this project is to increase participation of undergraduate students in research and presentations. These funds provide the opportunity for students to engage in high impact research practices within their field of study.

**Benefit for the State or Institution:** By providing these types of research opportunities, the University advances new knowledge for students and faculty. Students who engage in these kinds of projects are more likely to reach degree completion and further their education, potentially here at Texas A&M University-Kingsville. This project may also assist professors with seed monies for externally funded projects.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,360
Operating Expenses	\$1,886
Capital Expenditures	\$0
<b>Total</b>	<b>\$3,246</b>

**Entry: 23**

**Title:** Research Support - Department of History

**Description:** This project encourages the engagement of undergraduate students to participate in research in various disciplines within the Department of History.

**Purpose/Intent:** The purpose of this project is to increase participation of undergraduate students in research and presentations. These funds provide the opportunity for students to engage in high impact research practices within their field of study.

**Benefit for the State or Institution:** By providing these types of research opportunities, the University advances new knowledge for students and faculty. Students who engage in these kinds of projects are more likely to reach degree completion and further their education, potentially here at Texas A&M University-Kingsville. This project may also assist professors with seed monies for externally funded projects.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$4,774
Operating Expenses	\$25
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,799</b>

**Entry: 24**

**Title:** Research Support - Department of Environmental Engineering

**Description:** This project encourages the engagement of undergraduate students to participate in research in various disciplines within the Department of Environmental Engineering.

**Purpose/Intent:** The purpose of this project is to increase participation of undergraduate students in research and presentations. These funds provide the opportunity for students to engage in high impact research practices within their field of study.

**Benefit for the State or Institution:** By providing these types of research opportunities, the University advances new knowledge for students and faculty. Students who engage in these kinds of projects are more likely to reach degree completion and further their education, potentially here at Texas A&M University-Kingsville. This project may also assist professors with seed monies for externally funded projects.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,951
Operating Expenses	\$2,427
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,378</b>

**Entry: 25**

**Title:** Research Support - Office of Student Access

**Description:** Development and advancement of institutional research through the support of sponsored undergraduate research. The overarching aim includes building departmental, college and institutional research capacity through faculty supervision of targeted research projects. Student Access assists with the implementation of the undergraduate research plans and the preparation of all associated project budgets.

**Purpose/Intent:** The purpose of the undergraduate research program is to facilitate research sponsorships through an undergraduate research training program that builds research capacity and delivers meaningful participatory methodology training to upcoming student researchers. Student Access conducts oversight functions of the implementation of the undergraduate research plans, all associated local, regional, and national scholarly work developed by participants in the program and the preparation of all associated project budgeting functions in partnership with various University departments and colleges.

**Benefit for the State or Institution:** Participatory research training allows students to conceptualize various research methods and work directly with faculty as research mentors. Furthermore, students began to realize and form a researcher minded identity. Research mentorship programs such as this, provide meaningful learning experiences through a sense of connectedness. The literature in this area, indicates that participants in program such as this are more likely to complete their degrees, go on to graduate school, and consider research related careers.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$6,565
Operating Expenses	\$22,110
Capital Expenditures	\$0
<b>Total</b>	<b>\$28,675</b>

**Entry: 26**

**Title:** Research Support - Department of Chemistry

**Description:** This project encourages the engagement of undergraduate students to participate in research in various disciplines within the Department of Chemistry.

**Purpose/Intent:** The purpose of this project is to increase participation of undergraduate students in research and presentations. These funds provide the opportunity for students to engage in high impact research practices within their field of study.

**Benefit for the State or Institution:** By providing these types of research opportunities, the University advances new knowledge for students and faculty. Students who engage in these kinds of projects are more likely to reach degree completion and further their education, potentially here at Texas A&M University-Kingsville. This project may also assist professors with seed monies for externally funded projects.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,998
Operating Expenses	\$2,134
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,132</b>

**Entry: 27**

**Title:** Office of Research and Graduate Studies

**Description:** To support the Office of Research and Graduate Studies (ORGS) involving proposal development, compliance, post award staff, and research reviewers.

**Purpose/Intent:** The staff of the Office of Research and Graduate Studies (ORGS) supports the University researchers by assisting with proposal development and monitoring compliance and financial requirements. The reviewers assess internal research proposals to determine eligible awardees.

**Benefit for the State or Institution:** Expansion of proposal development activities toward continued and increased research awards will allow further growth in the institutional, regional and statewide impact of our research programs. Expansion of programs also allows for further student research training and contributions toward workforce related and continued academic advancements. Successful internal research projects will be leveraged for the development of external grant proposals. The Office of Research and Graduate Studies (ORGS) support staff provides the infrastructure to submit projects to external agencies and to manage the projects when funded.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$12,368
Operating Expenses	\$41,952
Capital Expenditures	\$0
<b>Total</b>	<b>\$54,320</b>



**Entry:** 28

**Title:** Research Support - Department of Electrical Engineering

**Description:** This project encourages the engagement of undergraduate students to participate in research in various disciplines within the Department of Electrical Engineering.

**Purpose/Intent:** The purpose of this project is to increase participation of undergraduate students in research and presentations. These funds provide the opportunity for students to engage in high impact research practices within their field of study.

**Benefit for the State or Institution:** By providing these types of research opportunities, the University advances new knowledge for students and faculty. Students who engage in these kinds of projects are more likely to reach degree completion and further their education, potentially here at Texas A&M University-Kingsville. This project may also assist professors with seed monies for externally funded projects.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,290
Operating Expenses	\$3,710
Capital Expenditures	\$0
<b>Total</b>	<b>\$5,000</b>

**Entry:** 29

**Title:** Texas A&M University-Kingsville University Research Awards

**Description:** The University Research Award provides seed money for research projects that have high potential to secure external funding. Interdisciplinary proposals among the University Colleges are encouraged.

**Purpose/Intent:** The intent is to facilitate research capacity through demonstrated quality research and enrichment of the research environment at Texas A&M University-Kingsville through external funding and scholarly publications.

**Benefit for the State or Institution:** The expected outcome is to provide funding for research pilot studies that will result in an increase in grant proposals, grant awards, and research expenditures at Texas A&M University-Kingsville.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$2,051
Capital Expenditures	\$0
<b>Total</b>	<b>\$2,051</b>

**Entry:** 30

**Title:** The Regulation of Gene Expression via Epigenetic Mechanisms during Onset of Obesity, Type 2 Diabetes

**Description:** This project includes graduate students that will be involved with this particular study. Environmental factors including diets and lifestyles may play an important role in the development of obesity/type 2 diabetes by influencing the epigenetic modifications to the human genome. It has been demonstrated that circulating fat acids are associated with adiposity, insulin resistance, and muscle cell death. The key question is what actual factors in adipocytes and muscle cells induced by fatty acids are mediating adiposity, insulin resistance, and muscle cell death.

**Purpose/Intent:** This particular research project will be focused on the study of the epigenetic mechanisms involved in gene regulation by fatty acids. The funding will also assist with paying graduate students involved with this study.

**Benefit for the State or Institution:** The funding will help support the students involved with the prime grant from the National Institute of Health (NIH). The Texas A&M University-Kingsville students involved will receive research grant training.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$4,885
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,885</b>

**Entry:** 31

**Title:** Texas A&M University-Kingsville University Research Awards

**Description:** The University Research Award provides seed money for research projects that have high potential to secure external funding. Interdisciplinary proposals among the University Colleges are encouraged.

**Purpose/Intent:** The intent is to facilitate research capacity through demonstrated quality research and enrichment of the research environment at Texas A&M University-Kingsville through external funding and scholarly publications.

**Benefit for the State or Institution:** The expected outcome is to provide funding for research pilot studies that will result in an increase in grant proposals, grant awards, and research expenditures at Texas A&M University-Kingsville.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,210
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,210</b>

**Entry:** 32

**Title:** Research Support - Department of Animal Wildlife

**Description:** This project encourages the engagement of undergraduate students to participate in research in various disciplines within the Department of Animal Wildlife.

**Purpose/Intent:** The purpose of this project is to increase participation of undergraduate students in research and presentations. These funds provide the opportunity for students to engage in high impact research practices within their field of study.

**Benefit for the State or Institution:** By providing these types of research opportunities, the University advances new knowledge for students and faculty. Students who engage in these kinds of projects are more likely to reach degree completion and further their education, potentially here at Texas A&M University-Kingsville. This project may also assist professors with seed monies for externally funded projects.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,008
Operating Expenses	\$3,992
Capital Expenditures	\$0
<b>Total</b>	<b>\$5,000</b>

**Entry:** 33

**Title:** Texas A&M University-Kingsville University Research Awards

**Description:** The University Research Award provides seed money for research projects that have high potential to secure external funding. Interdisciplinary proposals among the University Colleges are encouraged.

**Purpose/Intent:** The intent is to facilitate research capacity through demonstrated quality research and enrichment of the research environment at Texas A&M University-Kingsville through external funding and scholarly publications.

**Benefit for the State or Institution:** The expected outcome is to provide funding for research pilot studies that will result in an increase in grant proposals, grant awards, and research expenditures at Texas A&M University-Kingsville.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,236
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,236</b>

**Entry: 34**

**Title:** Texas A&M University-Kingsville University Research Awards

**Description:** The University Research Award provides seed money for research projects that have high potential to secure external funding. Interdisciplinary proposals among the University Colleges are encouraged.

**Purpose/Intent:** The intent is to facilitate research capacity through demonstrated quality research and enrichment of the research environment at Texas A&M University-Kingsville through external funding and scholarly publications.

**Benefit for the State or Institution:** The expected outcome is to provide funding for research pilot studies that will result in an increase in grant proposals, grant awards, and research expenditures at Texas A&M University-Kingsville.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$3,144
Operating Expenses	\$4,934
Capital Expenditures	\$0
<b>Total</b>	<b>\$8,078</b>

**Entry: 35**

**Title:** Texas A&M University-Kingsville University Research Awards

**Description:** The University Research Award provides seed money for research projects that have high potential to secure external funding. Interdisciplinary proposals among the University Colleges are encouraged.

**Purpose/Intent:** The intent is to facilitate research capacity through demonstrated quality research and enrichment of the research environment at Texas A&M University-Kingsville through external funding and scholarly publications.

**Benefit for the State or Institution:** The expected outcome is to provide funding for research pilot studies that will result in an increase in grant proposals, grant awards, and research expenditures at Texas A&M University-Kingsville.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$5,091
Capital Expenditures	\$0
<b>Total</b>	<b>\$5,091</b>

## Texas A&M University-San Antonio

### Entry: 1

**Title:** Professional Development - Employee Training

**Description:** Travel to participate in National Conferences and Texas A&M University System training.

**Purpose/Intent:** To train in MAESTRO, System Software package, used for Grant Management. To attend conference to gain knowledge that will allow the Sponsored Program Department to better serve the Faculty/Staff members.

**Benefit for the State or Institution:** The institution will become more efficient and effective in the realm of Sponsored Programs and as a result increase the output of grants submitted and accepted.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$7,520
Capital Expenditures	\$0
<b>Total</b>	<b>\$7,520</b>

### Entry: 2

**Title:** Student Research Support

**Description:** A symposium to promote and showcase student research.

**Purpose/Intent:** Experiential learning in the areas of research for the student population.

**Benefit for the State or Institution:** The institution has the opportunity of showcasing student research to the community. The top student from the symposium represents the University during the Undergraduate Research Day at the Texas State Capitol in Austin, TX.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$4,797
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,797</b>

## Texas A&M University-Texarkana

**Entry:** 1

**Title:** Research Compliance Officer

**Description:** Salary support for position responsible for administration of research.

**Purpose/Intent:** Funded portion of Research Compliance Officer salary.

**Benefit for the State or Institution:** The Research Compliance Officer oversees the university's compliance with various research rules and regulations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,080
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,080</b>

# Texas Southern University

## Entry: 1

**Title:** Research Enhancement and Compliance Programs

**Description:** Educational workshops on laboratory safety, use of animals, radiation, and biohazardous substances in research for research community of TSU. State and federal agency reporting, registrations and assurance renewals. Research protocol submission, review and approval processes. Management and maintenance of research animal care facilities. Research Waste Management.

**Purpose/Intent:** To ensure research compliance with state and federal governing agency guidelines policies and procedures. To showcase research activities at TSU. To enhance internal and external research collaborations and networking.

**Benefit for the State or Institution:** Ensures compliance with state guidelines policies and procedures. Ensures state employee safety. Promotes high quality research. Enhances extramural funding opportunities for the university.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$71,914
Operating Expenses	\$28,526
Capital Expenditures	\$0
<b>Total</b>	<b>\$100,440</b>

## Entry: 2

**Title:** Research Seed Grant Program

**Description:** Coordination of application submission, review and award processes for Seed Grants. Administer seed grant procurement processes. Conductance of procurement workshops for awardees.

**Purpose/Intent:** To provide research funds to faculty to conduct pilot studies via which the findings will serve as platforms to seek extramural funding.

**Benefit for the State or Institution:** Enhances extramural funding opportunities for the university.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$34,950
Operating Expenses	\$50,768
Capital Expenditures	\$0
<b>Total</b>	<b>\$85,718</b>

## Texas State University

### Entry: 1

**Title:** Grant Support

**Description:** Provides supplemental funding for grant research.

**Purpose/Intent:** Provides supplemental funding for grant research.

**Benefit for the State or Institution:** Leverages institution's ability to get new or continuing research grants.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,025,910
Operating Expenses	\$156,692
Capital Expenditures	\$742,895
<b>Total</b>	<b>\$1,925,497</b>

### Entry: 2

**Title:** Faculty Start-Up

**Description:** Research equipment and other startup costs.

**Purpose/Intent:** Research equipment and other startup costs.

**Benefit for the State or Institution:** Funding state of the art equipment and laboratories allows us to retain top faculty to instruct and perform research.

Salaries/Wages for New or Reassigned FTEs	\$597,657
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$359,288
Capital Expenditures	\$102,929
<b>Total</b>	<b>\$1,059,874</b>

### Entry: 3

**Title:** Service and Maintenance Contracts

**Description:** Pays for service, maintenance and calibration of research equipment.

**Purpose/Intent:** Pays for service, maintenance and calibration of research equipment.

**Benefit for the State or Institution:** Maintains state of the art equipment in research labs.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$143,741
Capital Expenditures	\$0
<b>Total</b>	<b>\$143,741</b>



## Texas Tech University

### Entry: 1

**Title:** Salary support (non-start up)

**Description:** Provides support to the most active research faculty. Recipients are identified by the college. The selections are reviewed by the Provost's office. Approximately 45 faculty members salary was partially paid from Core Research Support funds.

**Purpose/Intent:** To support research activities and increase external research funding opportunities.

**Benefit for the State or Institution:** CRS funds allow Texas Tech to retain exceptional researchers. By using CRS funds to support research, institutional funds are freed up to continue to support superior teaching experiences for the students.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$6,014,592
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$6,014,592</b>

### Entry: 2

**Title:** Center Support

**Description:** Support for multiple centers and institutes including Animal Care Services, the National Wind Institute, the Center for Biotechnology and Genomics, and the Neuroimaging Institute.

**Purpose/Intent:** To enhance multidisciplinary programs by providing support to the centers and seed grants to researchers. These investments into bolster existing research programs and support the continued growth of multidisciplinary programs.

**Benefit for the State or Institution:** An example of a research center that is supported by CRSF is Animal Care Services. This center supports both research and teaching that involves animals at Texas Tech University. ACS manages four facilities on campus that houses animals for biomedical research, agricultural research and teaching. The department provides daily care for animals and facilities, surgical and anesthesia support, animal procurement as well as IACUC protocol formulation.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$830,803
Operating Expenses	\$319,566
Capital Expenditures	\$4,139
<b>Total</b>	<b>\$1,154,508</b>

**Entry: 3**

**Title:** Start-up Support

**Description:** Core Research Support funding assisted approximately 99 individual investigators in an effort to build nationally recognized areas of research excellence.

**Purpose/Intent:** To enhance the national reputation of research at Texas Tech University and for the state, the university is investing in individual research investigators across all disciplines in an effort to increase extramural research funding and facilitate interdisciplinary research groups and projects. Core Research Support fund investments provide unique opportunities for investigators to launch focused research initiatives and train our students for the future research and education workforce.

**Benefit for the State or Institution:** CRS funds have been used to facilitate the investigations of researchers such as Dr. Stephen T. Fife, Professor in the Department of Community, Family and Addiction Sciences. He is currently conducting a project that focuses on assessment and treatment of acute stress disorder (ASD) and post-traumatic stress disorder (PTSD) in pediatric trauma patients and their families. This project is a collaboration between the Texas Tech University (TTU) Department of Community, Family, and Addiction Sciences (CFAS) and the physicians and medical staff from the Pediatric Trauma Center at the University Medical Center (UMC). There are a few different studies connected with the initial stages of this project: 1. We are utilizing a methodology known as community based participatory research (CBPR) to develop interventions and treatment for ASD and PTSD. These interventions that are tailored specifically to the patient population seen in the UMC Pediatric Trauma Center. CBPR involves collecting data from community stakeholders (patients, family members, doctors, medical staff, etc.), using that data to develop and assess interventions then feeding back into the system to refine and improve the effectiveness of the interventions and treatment. 2. Because many of the UMC patients are from rural communities in West Texas and Eastern New Mexico, follow up treatment for a significant percentage of patients and families will be through telemental health services. In order to understand and improve the impact of the telemental health services provided, we plan to collect data regarding their experiences with the teletherapy sessions through in-depth interviews with patients and family members. This qualitative research will help us understand specific aspects of teletherapy that are helpful, as well as ways the service can be improved to ensure we are meeting goals to reduce mental and social symptoms of trauma. We have begun using the assessment model with patients on the hospital floor. Our clinic will be ready to receive patients by the end of the year. We are excited about providing beneficial mental health services to members of local and regional communities. We are also working to secure federal funding to support the research and intervention associated with this project, and have already submitted one grant proposal related to this project.

Salaries/Wages for New or Reassigned FTEs	\$505,982
Salaries/Wages for Existing FTEs	\$2,413,680
Operating Expenses	\$110,142
Capital Expenditures	\$32,553
<b>Total</b>	<b>\$3,062,357</b>

**Entry: 4**

**Title:** Cost Sharing/Matching

**Description:** Funding allocated to provide matching funds to extramural research projects.

**Purpose/Intent:** The fund was established to cover committed and voluntary cost share for extramural funding, enabling faculty to conduct research and advancing the mission of the University.

**Benefit for the State or Institution:** This investment helps TTU build research capacity to attract top tier research faculty, be more competitive for extramural funding and assists faculty in meeting the requirements of certain awards.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$180,512
Operating Expenses	\$23,584
Capital Expenditures	\$186,700
<b>Total</b>	<b>\$390,796</b>

## Texas Woman's University

### Entry: 1

**Title:** Center for Research Design and Analysis

**Description:** Provide support to faculty and students for qualitative and quantitative research.

**Purpose/Intent:** Funds are used to supplement University resources to support TWU's Center for Research Design and Analysis.

**Benefit for the State or Institution:** These funds assisted in increasing statistical and research design support to faculty for their current research projects, increased faculty and students' knowledge about the research process and data analysis, and trained graduate research students in research and data analysis.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$44,880
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$44,880</b>

### Entry: 2

**Title:** Research Enhancement Program: "Determining the Molecular Pathway and Physiological Significance of a Novel DNA Protective Response to UV Radiation in Primary Mouse Fibroblasts and C. Elegans" (Bergel & Gumienny)

**Description:** These funds were used to support a project submitted to the Research Enhancement Program (REP) (PIs: Drs. Michael Bergel and Tina Gumienny, Biology). This program provides support to faculty research projects in the form of seed money so faculty members will be able to successfully compete for larger external grants that will enable them to continue the research.

**Purpose/Intent:** The purpose of this study is to determine if a molecular pathway that links UV radiation to calcium influx is responsible for this protective chromatin compaction, using MEFs and roundworms mutated for genes in this pathway. These results will be significant for both skin cancer prevention and again research.

**Benefit for the State or Institution:** Results from this study will be used as a basis for a proposal to the National Institutes of Health.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$6,428
Operating Expenses	\$975
Capital Expenditures	\$0
<b>Total</b>	<b>\$7,403</b>

**Entry: 3**

**Title:** Departmental Research Support

**Description:** Initiative to increase research at Texas Woman's University in the College of Health Sciences.

**Purpose/Intent:** Funds were provided for departmental support within the College of Health Sciences to support initiatives within the college.

**Benefit for the State or Institution:** These funds purchased a Trans-Blot Turbo Transfer System from Bio-Rad to support Nutrition faculty who have been funded by the US Department of Agriculture and private funding agencies

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,248
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,248</b>

**Entry: 4**

**Title:** Proposal Development Award

**Description:** The purpose of the proposal development award is to provide funds to a faculty member or research team to "buy-out" time during the academic year or pay summer salary to develop and submit an external proposal.

**Purpose/Intent:** Faculty from the Departments of Biology, Kinesiology, Nursing, Management, Psychology and Philosophy, Physical Therapy, and Nutrition and Food Sciences were supported.

**Benefit for the State or Institution:** These funds assisted in increasing the number of research proposals submitted for external funding, therefore contributing to faculty and graduate student research and scholarly productivity.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$43,571
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$43,571</b>

# The University of Texas at Arlington

## Entry: 1

**Title:** Faculty Salary Support

**Description:** Salaries paid to Faculty working at UT Arlington, including the Colleges of Engineering, Science, Nursing, Education and Schools of Urban and Public Affairs, Social Work, Architecture, etc.

**Purpose/Intent:** To enable the retention of outstanding research faculty who are sought for employment at other institutions.

**Benefit for the State or Institution:** This investment lowers faculty turnover rates and the expenses associated with faculty recruitment.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$5,091,434
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$5,091,434</b>

## Entry: 2

**Title:** Research Technicians and Research Support

**Description:** Salaries for Research Technicians and Research Support

**Purpose/Intent:** The purpose of these funds is to pay research technicians and other research support positions who provide a valuable research support role to our research faculty.

**Benefit for the State or Institution:** They provide valuable research support which contributes to the University's research mission.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$412,909
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$412,909</b>

## Entry: 3

**Title:** Graduate Research Assistant Salaries

**Description:** Salaries paid to Graduate Research Assistants working at UT Arlington, including the Colleges of Engineering, Science, Nursing, Education and Schools of Urban and Public Affairs, Social Work, Architecture, etc.

**Purpose/Intent:** The purpose of these funds is to pay graduate research assistants who provide a vital research support role to our research faculty who are working to generate extramural funding.

**Benefit for the State or Institution:** The research experience gained by these students is a critical part of their graduate education. They also play a role in generating extramural funding for the university.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$286,564
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$286,564</b>

# The University of Texas at Dallas

## Entry: 1

**Title:** Research Development – Engineering and Computer Science

**Description:** To provide research support for salaries and materials for the various departments in the School of ECS to assist with the growth in developing relationships between UTD and the industry.

**Purpose/Intent:** The School of Engineering & Computer Science is creating and maintaining a fearless environment that inspires the pursuit, creation and dissemination of knowledge in the following areas: Analog and mixed-signal circuits and systems, bioengineering, human communication technology, information assurance and cyber security, materials characterization, micro- and nanomanipulation, nanoelectronic materials, devices and systems, organic electronics, physical/chemical and biosensors, RF/microwave technology, wireless communications engineering.

**Benefit for the State or Institution:** The School of Engineering & Computer Science, created in large part to serve the demands of the Dallas area high-tech community, has capitalized on its unique location and is becoming an integral part of the North Texas 'economic engine.' Research Development funds aid in developing the relationships between UTD and industry which benefit our students, the Jonsson School and industry by providing career opportunities for graduate students, co/op/internship opportunities for students, and potential creation of research partnerships.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$2,356,387
Operating Expenses	\$40,800
Capital Expenditures	\$0
<b>Total</b>	<b>\$2,397,187</b>

## Entry: 2

**Title:** Research Development - School of Natural Sciences and Mathematics

**Description:** To provide supplemental funds for salary and operating expenditures for the School of Natural Sciences and Math.

**Purpose/Intent:** The purpose of the research support funds is to assist UTD in furthering its academic excellence goals by providing supplemental funds for Faculty and Staff to develop and support research in the areas of Physics, Chemistry, Biology, Mathematics and Geosciences.

**Benefit for the State or Institution:** The academic and research programs in the School of Natural Sciences and Math create the environment for excellence in student achievement and cutting edge research in the biological, geological, mathematical and physical sciences. Through this research, it will ensure that the North Texas region continues to grow as a science, mathematics, and educational destination, as a source of scientific talent, and as an incubator of new technologies.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$935,740
Operating Expenses	\$434,692
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,370,432</b>

**Entry: 3**

**Title:** Research Development - Management

**Description:** To provide research support for School of Management.

**Purpose/Intent:** The purpose of the research support funds is to assist the School of Management in furthering its academic excellence goals by providing supplemental funds to conduct research that will enhance management knowledge.

**Benefit for the State or Institution:** Research support funds provide support to the Jindal School of Management's mission to meet the challenges of a rapidly changing, technology-driven, global society.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$0</b>

**Entry: 4**

**Title:** Research Development – Center for Vital Longevity

**Description:** To provide salary support and operating expenses for the research of Alzheimer's.

**Purpose/Intent:** Research scientists at the Center for Vital Longevity are using advanced brain-imaging technologies and research techniques in cognitive neuroscience to understand and improve the vitality of the aging mind. Center scientists are working to identify a neural signature in middle-aged adults that will help predict who will and will not age well cognitively and who might be at risk of Alzheimer's disease long before symptoms appear. They are working to understand how memories are formed and retrieved and how these processes change with age. And they are investigating the effects of physical exercise and mental stimulation on memory and cognition in young and older adults.

**Benefit for the State or Institution:** The ultimate goal of the center's wide-ranging studies is to advance our understanding of the aging mind and to improve the long-term cognitive health and vitality of present and future generations. Their focus holds particular importance to our society, which has a higher proportion of older adults than ever before.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$577,790
Operating Expenses	\$9,488
Capital Expenditures	\$0
<b>Total</b>	<b>\$587,278</b>



**Entry: 5**

**Title:** Research Development – Economic Political & Policy Sciences

**Description:** To provide faculty salary support for educational programs that teach students the skills needed for critical thinking.

**Purpose/Intent:** Economics Political and Policy Sciences programs provide an education that allows the student to understand social phenomena from an economics perspective and to provide students with the substantive and analytical skills necessary to study interesting and important questions about how citizens influence what government does, the responsibilities and effectiveness of government, and the consequences of what public institutions and officials do for individual and community well-being.

**Benefit for the State or Institution:** Research support funds provide faculty the support to teach students to be able to think critically about choices in the face of limited resources in order to understand more clearly the choices available to society and the economic consequences of decisions.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$143,633
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$143,633</b>

**Entry: 6**

**Title:** Research Development - Research

**Description:** To provide research support for salaries and tuition for Ph.D. students.

**Purpose/Intent:** The Office of the Vice President for Research (OVPR) manages the Sponsored Programs (OSP), Research Compliance (ORC), Research Development (ORD) and Technology Commercialization (OTC) operations. These functions are all vital to ensuring the continued growth of the research enterprise at UT Dallas.

**Benefit for the State or Institution:** The four offices operating under the OVPR umbrella (OSP, ORC, ORD, and OTC) directly support faculty members in the development and submission of research proposals, negotiation of award contracts, facilitation of compliance with federal, state and local laws and regulations related to research, and the commercialization of technologies developed by UT Dallas faculty members. All of these functions are integral to the operations of a top tier research university and to the continued development and growth of high quality research in the state.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$2,472,786
Operating Expenses	\$49,407
Capital Expenditures	\$0
<b>Total</b>	<b>\$2,522,193</b>

**Entry: 7**

**Title:** Research Development – Behavioral & Brain Science

**Description:** To provide faculty and administrative salary support for the research for the healthy brain.

**Purpose/Intent:** Modern non-intrusive methods for monitoring real-time functioning of the human brain have led to issues requiring the definition of normal brain function. A goal of this school is to define the concept of a "healthy" brain as well as developing techniques for the brain as well as developing techniques for the early detection of non-healthy functioning.

**Benefit for the State or Institution:** Results of this research will have major positive effects upon human health, and will create possible commercial applications, and will reduce burdens upon social service agencies.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$952,016
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$952,016</b>

# The University of Texas at El Paso

## Entry: 1

**Title:** Research Initiatives

**Description:** The University uses these funds to provide transitional salary and support for newly hired faculty and faculty that need to be retained for their research credentials.

**Purpose/Intent:** The intent of this program is to retain existing faculty and attract new, highly competitive research faculty in order to increase the level of research funding and enhance institutional excellence. The funds are used for capital expenditures, operating expenses, and salaries and wages for research assistants, post-Docs and laboratory technician and salaries for faculty members.

**Benefit for the State or Institution:** These CORE investments have helped UTEP in building research capacity and becoming more effective in securing competitive research funding. This enables the hiring of strong faculty who will enhance the standing of the institution and contribute to its research and instructional missions.

Salaries/Wages for New or Reassigned FTEs	\$231,765
Salaries/Wages for Existing FTEs	\$1,301,246
Operating Expenses	\$995,995
Capital Expenditures	\$20,000
<b>Total</b>	<b>\$2,549,006</b>

## Entry: 2

**Title:** University Research Institute

**Description:** Funding program for individuals in full-time positions for which research productivity is an expected requirement.

**Purpose/Intent:** The University Research Institute provides funding assistance to those full-time individuals that have submitted proposals to the Faculty Research Senate Committee and meet all requirements. Funding assistance is awarded to those proposals that assist in the development of new junior faculty members, assist in the development of research programs that will attract external sources of funds, and make maximum use of resources and facilities available within UTEP.

**Benefit for the State or Institution:** The URI grants have been one of the most important means to support research faculty at UTEP. The funds have provided infrastructure support for research to engage in pilot studies or further current research activities. This, in turn, allowed many of these researchers to obtain and apply external funding from major science and engineering funding agencies. This URI funding has been used by these researchers in many ways such as conference travel, equipment purchase, supplies and materials purchase, and in some cases student research assistant support.

Salaries/Wages for New or Reassigned FTEs	\$7,073
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$20,957
Capital Expenditures	\$0
<b>Total</b>	<b>\$28,030</b>

**Entry: 3**

**Title:** Strategic Hires

**Description:** The strategic hires program provides funding to Colleges to recruit outstanding and high-profile faculty researchers who are aligned to the educational and research mission of the University.

**Purpose/Intent:** The purpose of the program is to provide agility to the University in the strategic recruitment of outstanding faculty who advance the University to attain a National Research University status.

**Benefit for the State or Institution:** The recruitment of high-profile faculty members is one way to enhance the caliber of research at UTEP and to increase the quality of education the students deserve.

Salaries/Wages for New or Reassigned FTEs	\$16,667
Salaries/Wages for Existing FTEs	\$150,832
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$167,498</b>

**Entry: 4**

**Title:** Office of Technology Commercialization

**Description:** OTC works with UTEP researchers to commercialize their ideas by providing services such as best-in-class innovation practices; technology, intellectual property and patent strategies; licensing strategies, market research; business strategy and plan development; company formation, organization structures and capitalization strategies; fundraising; incubation; and recruitment strategies.

**Purpose/Intent:** The purpose of OTC is to be the single portal to assist customers on innovation, entrepreneurship, technology transfer, and commercialization.

**Benefit for the State or Institution:** The outcomes of OTC not only have enhanced tech transfer operations, but also are expected to contribute to the economic development of the El Paso Region.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$151,691
Operating Expenses	\$4,555
Capital Expenditures	\$0
<b>Total</b>	<b>\$156,246</b>

**Entry: 5**

**Title:** Research Centers Support

**Description:** This program provides start-up and transitional support for the establishment of research centers with an aggressive extramural funding agenda.

**Purpose/Intent:** The purpose of these funds is to provide start-up and transitional support to develop the infrastructure of the Center for Space Exploration Research and Technologies and the Future Aerospace Science and Technology Center. These two centers have secured multiple grants from federal agencies and aerospace industry partners with obligations exceeding \$7 million.

**Benefit for the State or Institution:** The investment is effectively used to leverage extramural funding, which in turn, provides support for the educational and research mission of the University.

Salaries/Wages for New or Reassigned FTEs	\$61,552
Salaries/Wages for Existing FTEs	\$1,017,476
Operating Expenses	\$44,463
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,123,491</b>

**Entry: 6**

**Title:** Grant Cost Shares

**Description:** Cost share for major sponsored projects.

**Purpose/Intent:** CORE funds were invested to cover the committed and voluntary cost shares for national competitive federal grants sponsored by the National Science Foundation, The National Institute of Health, the Office of Naval Research and the Air Force Office of Scientific Research.

**Benefit for the State or Institution:** Cost sharing projects not only helps principal investigators to meet the needs of the grant, but also shows institutional support to the agencies where the return on investment is beneficial to UTEP, the students, and the researchers involved.

Salaries/Wages for New or Reassigned FTEs	\$123,882
Salaries/Wages for Existing FTEs	\$92,220
Operating Expenses	\$21,664
Capital Expenditures	\$18,876
<b>Total</b>	<b>\$256,641</b>

**Entry: 7**

**Title:** Institutional Animal Care and Use Committee

**Description:** Operating support for the Institutional Animal Care and Use Committee (IACUC).

**Purpose/Intent:** The purpose of the IACUC is to assure that UTEP researchers care for and use animals in ways judged to be scientifically, technically, and humanely appropriate. The committee provides research oversight and evaluation of the institution's animal care and use program and facilities by ensuring compliance with federal regulations related to the proper care, use, and humane treatment of animals used in research, testing and education. The IACUC also provides assistance to investigators in fulfilling their obligation to plan and conduct animal research in accordance with the highest scientific and ethical principles.

**Benefit for the State or Institution:** The CORE investment will allow the execution of animal related research to be in compliance with the Public Health Service Policy on Humane Care and Use of Laboratory Animals; United States Department of Agriculture-Animal and Plant Health Inspection Service; U.S. Government Principles for the Utilization and Care of Vertebrate Animals Used in Testing, Research and Training; and Code of Federal Regulations, 1989, Title 9, Parts 1, 2, and 3 (Animal Welfare Final Rules).

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$45,577
Operating Expenses	\$3,333
Capital Expenditures	\$0
<b>Total</b>	<b>\$48,911</b>

**Entry: 8**

**Title:** Start-up packages

**Description:** The University uses these funds to provide support for newly hired faculty who are expected to establish funded research programs.

**Purpose/Intent:** The intent of this program is to attract new, highly competitive research faculty in order to increase the level of research funding and enhance institutional excellence. The funds are used for salaries and wages for faculty members, post-Docs, research technicians, laboratory assistants, capital expenditures, and operating expenses required to operate and maintain laboratories for the purpose of research production.

**Benefit for the State or Institution:** These investments have helped UTEP in building research capacity and becoming more effective in securing competitive research funding. This enables the hiring of strong faculty who will enhance the standing of the institution and contribute to its research and instructional missions.

Salaries/Wages for New or Reassigned FTEs	\$1,387,073
Salaries/Wages for Existing FTEs	\$610,489
Operating Expenses	\$54,414
Capital Expenditures	\$0
<b>Total</b>	<b>\$2,051,975</b>

**Entry: 9**

**Title:** Veterinary Services

**Description:** Operating support for Veterinary Services Office

**Purpose/Intent:** In recent years, UTEP has aggressively expanded its research agenda to increase capacity in biomedical and health-related research. As part of these efforts, UTEP recently completed the new Biosciences building, which houses animal research facilities, vivaria, and Biosafety Level 3 containment facilities. These research facilities also demand that all research dealing with animals (funded and unfunded) be in compliance with animal welfare regulations of the Office of Laboratory Animal Welfare (OLAW) of the US Department of Health and Human Services. CORE funds were used to cover capital and operating expenditures in support of the Veterinary Services Office.

**Benefit for the State or Institution:** The CORE investment will allow the execution of biomedical and health-related research to be in compliance with OLAW federal regulations.

Salaries/Wages for New or Reassigned FTEs	\$37,200
Salaries/Wages for Existing FTEs	\$144,074
Operating Expenses	\$94,444
Capital Expenditures	\$0
<b>Total</b>	<b>\$275,718</b>

**Entry:** 10

**Title:** Research Equipment

**Description:** Funds were allocated for acquisition, maintenance and support of research equipment in the Colleges of Science, Engineering, Liberal Arts and Health Sciences.

**Purpose/Intent:** UTEP continues to expand its research agenda to increase research capacity in the STEM disciplines. As part of these efforts, UTEP has acquired a number of scientific instruments which are heavily used for sponsored research projects. In order to avoid service interruptions, several of these instruments were placed in yearly maintenance contracts using CORE Funds. New equipment was also acquired replacing obsolete items.

**Benefit for the State or Institution:** These CRSF and the TCRF investments have helped UTEP in building research capacity and becoming more effective in securing competitive research funding.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$415,657
Capital Expenditures	\$32,000
<b>Total</b>	<b>\$447,657</b>

## The University of Texas at Tyler

**Entry: 1**

**Title:** Texas Comprehensive Research Fund Annual Report

**Description:** Increase Research Enhancement Budget.

**Purpose/Intent:** These funds enable the university to fund several small faculty research grants. Such grants are aimed at helping faculty members generate initial results necessary to successfully obtain funding from extramural grant sources.

**Benefit for the State or Institution:** These funds provide seed money for research projects and provide institutions the ability to acquire resources that would otherwise be unattainable through standard appropriations.

Salaries/Wages for New or Reassigned FTEs	\$44,277
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$13,616
Capital Expenditures	\$0
<b>Total</b>	<b>\$57,893</b>



## The University of Texas of the Permian Basin

### Entry: 1

**Title:** TCRF FY 2017 Research Administration Support

**Description:** Salaries for research administration personnel.

**Purpose/Intent:** Funds were utilized to support research administration's salaries.

**Benefit for the State or Institution:** This a great project for the state of Texas to ensure federal and state regulations are adhered to and assists with securing external research funds for our university.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$24,926
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$24,926</b>

### Entry: 2

**Title:** TCRF FY 2018 Research Administration Support

**Description:** Salaries for research administration personnel.

**Purpose/Intent:** Funds were utilized to support research administration's salaries.

**Benefit for the State or Institution:** This a great project for the state of Texas to ensure federal and state regulations are adhered to and assists with securing external research funds for our university.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$11,526
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$11,526</b>

# The University of Texas Rio Grande Valley

**Entry: 1**

**Title:** Texas Comprehensive Research Fund

**Description:** Monies received from the Texas Comprehensive Research Fund may only be used for the support and maintenance of educational and general activities, including research and students services, that promote increased research capacity in accordance to the mission and goals of the institution.

**Purpose/Intent:** For the support and maintenance of E&G and Research activities that promote increased research capacity for the University of Texas Rio Grande Valley (UTRGV).

**Benefit for the State or Institution:** UTRGV engages with health providers, industry and other business leaders, educational and other community organization to find solutions to civic, economic, environmental and social challenges through inquiry and innovation. Supporting specialized instructional/research spaces by providing the equipment and infrastructure to fully utilize technological advances. The Texas Comprehensive Research Fund supports all of these endeavors through funding that would otherwise not be available to us. This year's allocation was utilized to support research assistants, scientific labs and computer equipment, software, research conferences, chemicals and other supplies for faculty members to implement their research agendas. The Texas Comprehensive Research Fund is undoubtedly a good investment for UTRGV to continuously improve and advance the cause of education and research in this region which will, in turn, benefit the state and nation.

Salaries/Wages for New or Reassigned FTEs	\$533,828
Salaries/Wages for Existing FTEs	\$100,733
Operating Expenses	\$148,125
Capital Expenditures	\$66,093
<b>Total</b>	<b>\$848,779</b>

# The University of Texas at San Antonio

## Entry: 1

**Title:** Science Faculty Research Support

**Description:** Funding provided to College of Sciences to support existing research faculty.

**Purpose/Intent:** Purpose is to retain existing outstanding researcher faculty who are aligned to research strategic goals of the institution.

**Benefit for the State or Institution:** Faculty supported through this program submitted 345 proposals in FY18 requesting \$139,975,545. They received 66 awards for \$22,191,865

Salaries/Wages for New or Reassigned FTEs	\$151,334
Salaries/Wages for Existing FTEs	\$2,750,795
Operating Expenses	\$39,747
Capital Expenditures	\$266,415
<b>Total</b>	<b>\$3,208,291</b>

## Entry: 2

**Title:** Business Faculty Research Support

**Description:** Funding provided to College of Business to support existing research faculty.

**Purpose/Intent:** Purpose is to retain existing outstanding researcher faculty who are aligned to research strategic goals of the institution.

**Benefit for the State or Institution:** Faculty supported through this program submitted 57 proposals in FY18 requesting \$9,606,107. They received 17 awards for \$1,192,183.

Salaries/Wages for New or Reassigned FTEs	\$33,429
Salaries/Wages for Existing FTEs	\$211,422
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$244,851</b>

## Entry: 3

**Title:** Engineering Faculty Research Support

**Description:** Funding provided to College of Engineering to support existing research faculty.

**Purpose/Intent:** Purpose is to retain existing outstanding researcher faculty who are aligned to research strategic goals of the institution.

**Benefit for the State or Institution:** Faculty supported through this program submitted 25 proposals in FY18 requesting \$15,759,184. They received 4 awards for \$242,643.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$47,495
Operating Expenses	\$16,482
Capital Expenditures	\$0
<b>Total</b>	<b>\$63,977</b>

**Entry: 4**

**Title:** Connecting through Research Partnerships (CONNECT) Program

**Description:** Seed grant program to enhance greater scientific collaboration between UTSA and Southwest Research Institute.

**Purpose/Intent:** This program seeks to encourage interaction and promote cross-campus collaborative programs.

**Benefit for the State or Institution:** CONNECT leverages partnership resources and expertise in joint research collaborations in pursuit of large scale, federal funding opportunities. In FY18 faculty through this program submitted 9 proposals for \$1,390,072 and received 2 awards for \$33,949.

Salaries/Wages for New or Reassigned FTEs	\$70,356
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$8,443
Capital Expenditures	\$19,619
<b>Total</b>	<b>\$98,418</b>

**Entry: 5**

**Title:** INTRA (Internal Research Awards) Program

**Description:** Seed grant program to promote research and scholarly excellence.

**Purpose/Intent:** This program offers experience in identifying and submitting applications to potential funding sources, provides preliminary data to support applications for extramural funding, and enhances scholarly and creative activities.

**Benefit for the State or Institution:** Faculty supported through the INTRA program submitted 15 proposals in FY18 requesting \$1,155,006 and received 11 awards totaling \$132,149.

Salaries/Wages for New or Reassigned FTEs	\$115,166
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$51,497
Capital Expenditures	\$0
<b>Total</b>	<b>\$166,663</b>

**Entry: 6**

**Title:** GREAT Program (Grants for Research Advancement and Transformation)

**Description:** Seed grant program to support new areas of research for tenured/tenure track faculty.

**Purpose/Intent:** This program enables faculty to assemble preliminary data that can be used to seek extramural funding and advance UTSA's goal of reaching Tier One status.

**Benefit for the State or Institution:** Faculty supported through the GREAT program submitted 32 proposals in FY18 requesting \$11,430,963 and received 2 awards for \$99,700.

Salaries/Wages for New or Reassigned FTEs	\$39,110
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$4,361
Capital Expenditures	\$0
<b>Total</b>	<b>\$43,471</b>

**Entry: 7**

**Title:** Research Development and Support

**Description:** Funding allocated to support various research initiatives.

**Purpose/Intent:** Purpose is to establish a foundation of assistance for research-engaged faculty and students.

**Benefit for the State or Institution:** Enables UTSA to increase awareness of its research capabilities, support collaboration across all academic disciplines, promote high standards of research integrity and scholarly excellence, and protect the institution's intellectual property.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$32,157
Capital Expenditures	\$7,915
<b>Total</b>	<b>\$40,072</b>

# University of Houston

## Entry: 1

**Title:** Faculty Research Start-up Packages

**Description:** Support for newly hired faculty who are within their first 2-3 years at UH.

**Purpose/Intent:** Support for postdoctoral fellows or other researchers, new equipment and consumables to set up research operations of new faculty.

**Benefit for the State or Institution:** New faculty are expected to conduct research in addition to expand the research capabilities of their department and UH. Such increased capacity should improve the competitiveness of research faculty when seeking external funding.

Salaries/Wages for New or Reassigned FTEs	\$107,616
Salaries/Wages for Existing FTEs	\$136,638
Operating Expenses	\$40,250
Capital Expenditures	\$95,223
<b>Total</b>	<b>\$379,727</b>

## Entry: 2

**Title:** Faculty Salary Support

**Description:** Department of Mathematics faculty salary support.

**Purpose/Intent:** Salaries paid to faculty working in the College of Natural Sciences and Mathematics within the Department of Mathematics.

**Benefit for the State or Institution:** To enable the retention of outstanding research faculty. This investment lowers faculty turnover rates and the expenses associated with faculty recruitment.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$4,382,321
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,382,321</b>

## Entry: 3

**Title:** Other Research Investments

**Description:** Lease of lab space; cost sharing and equipment or other matched investments.

**Purpose/Intent:** Support for cost sharing equipment purchases, lease payments for research laboratory space, and matching opportunities to strengthen the UH research core.

**Benefit for the State or Institution:** Cost sharing projects and procuring quality laboratory space assists researchers in meeting grant requirements and demonstrates institutional support to the agencies where the return on investment is beneficial to UH, the students and the researchers involved.

Salaries/Wages for New or Reassigned FTEs	\$35,501
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,593,104
Capital Expenditures	\$60,999
<b>Total</b>	<b>\$1,689,604</b>

**Entry:** 4

**Title:** Research Support

**Description:** Support for the central research infrastructure. (OCG, RIO and EHLS.)

**Purpose/Intent:** Support for the Office of Contracts and Grants, Research Integrity and Oversight; and Laboratory Safety.

**Benefit for the State or Institution:** Assist faculty in submitting proposals and managing sponsored awards; Support and educate the UH research community in all areas of compliance with federal regulations concerning human subjects, animal subjects, conflicts of interest, grant congruency, and responsible conduct of research; and Promote healthy and safe research operations.

Salaries/Wages for New or Reassigned FTEs	\$714,404
Salaries/Wages for Existing FTEs	\$2,197,413
Operating Expenses	\$292,874
Capital Expenditures	\$0
<b>Total</b>	<b>\$3,204,691</b>

## University of Houston-Clear Lake

### Entry: 1

**Title:** EIH Main Research Development

**Description:** Environmental Research and Education Funds.

**Purpose/Intent:** Funds are used to provide seed funding in the field of environmental research and education support. Funds support research conducted by UH System faculty researchers and educators in the fields of environmental science, fisheries science, chemistry, geology, meteorology, biology and hydrology.

**Benefit for the State or Institution:** No description submitted.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$15,151
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$15,151</b>

### Entry: 2

**Title:** Disaster Relief Logistics Network Design and Development for City of Houston

**Description:** No description submitted.

**Purpose/Intent:** Develop a mathematical programming model to design DRLNs, which provide optimized locations for emergency facilities and emergency relief item distribution channels from emergency facilities to victims and affected areas in case of any disaster. Develop DRLNs for City of Houston as a test bed to evaluate feasibility and performance of the proposed approach.

**Benefit for the State or Institution:** This research is expected to enhance our capability to plan and manage disaster relief activities from a logistics perspective.

Salaries/Wages for New or Reassigned FTEs	\$2,640
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$2,640</b>

### Entry: 3

**Title:** Assessing the Male Reproductive Toxicity of Kinase Inhibitors

**Description:** No description submitted.

**Purpose/Intent:** This research will study the short or long-term impact of small molecule kinase inhibitors on male fertility and spermatogenesis.

**Benefit for the State or Institution:** This research has significant human health concern because over 900,000 men of reproductive age are diagnosed with cancer each year in the United States and many may wish to retain reproductive function after survival.

Salaries/Wages for New or Reassigned FTEs	\$2,514
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$2,514</b>



**Entry: 4**

**Title:** Influencing pre-service elementary teacher science teaching efficacy and science certification test performance by implementing science content test preparation

**Description:** No description submitted.

**Purpose/Intent:** Study pre-service elementary teachers (PSETs) to determine if their science teaching efficacy increases their score on the Science portion of the Core Subjects EC-6 exam.

**Benefit for the State or Institution:** PSETs influence entry into the K-12 STEM pipeline. If there are fewer science qualified PSETs, then there could be fewer K-12 students with adequate STEM prerequisites entering middle and secondary grade levels.

Salaries/Wages for New or Reassigned FTEs	\$1,500
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,500</b>

**Entry: 5**

**Title:** Three-dimensional image capture, format and storage

**Description:** No description submitted.

**Purpose/Intent:** This research aims to add the depth/distance information to a flat 2-dimensional image making it a three-dimensional image.

**Benefit for the State or Institution:** This research could result in a new chip merging CCD\*-sensors and depth/distance sensors into a single chip/device. This single/chip device could have major implications in augmented/virtual reality (VR), computer gaming, robots, self-driving cars, flying drones and other computer applications.

Salaries/Wages for New or Reassigned FTEs	\$826
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$826</b>

**Entry: 6**

**Title:** Benefits and Challenges of Completing a Counseling Degree in a Cohort Model

**Description:** No description submitted.

**Purpose/Intent:** This study is to investigate the cohort model's contribution or lack thereof to minority student learning, to multicultural competence development, and as an emotional support network to maintain mental wellness post-graduation.

**Benefit for the State or Institution:** This research will address gaps in literature of the effects of a cohort model on developing multicultural competence building, best options for minority student learning, and compassion-fatigue reduction.

Salaries/Wages for New or Reassigned FTEs	\$2,400
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$2,400</b>

**Entry: 7**

**Title:** Smartphone-Delivered Behavioral Parent Training for Children with Attention-Deficit/Hyperactivity Disorder

**Description:** No description submitted.

**Purpose/Intent:** This project will pilot the use of a Behavioral Parent Training (BPT) smartphone app as a novel treatment for children with Attention Deficit-Hyperactivity Disorder (ADHD) who are receiving medication management.

**Benefit for the State or Institution:** The BPTapp has the potential to serve as an alternative to traditional BPT, which is highly effective but can be time intensive and limited to families who live within close proximity to a provider.

Salaries/Wages for New or Reassigned FTEs	\$837
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$837</b>

**Entry: 8**

**Title:** Uncertainty in Dynamic Disaster Relief Logistic Planning

**Description:** No description submitted.

**Purpose/Intent:** Evaluating this tradeoff by creating routing plans while considering two separate streams of information: (i) unverified data describing demand that is not known with certainty, obtained from social media platforms and (ii) verified data describing demand known with certainty, obtained from trusted traditional sources (i.e. on the ground assessment teams).

**Benefit for the State or Institution:** This research will contribute to the body of literature that addresses questions surrounding the usefulness of social data for dynamic disaster relief tour planning.

Salaries/Wages for New or Reassigned FTEs	\$1,514
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,514</b>

**Entry: 9**

**Title:** Employer Expectations of Written Communication Abilities in UHCL's Top Major-Professions: Education, Accounting, Psychology, and Healthcare Administration

**Description:** No description submitted.

**Purpose/Intent:** This study extends research on professional writing, working to define and describe common workplace writing requirements for new hires while isolating and identifying trends by academic major.

**Benefit for the State or Institution:** The knowledge gained by this research will produce generalizable findings that can apply to the teaching of writing at all levels at UHCL and beyond. In addition, this knowledge has the potential to influence industry standards in the evaluation and training of new hires.

Salaries/Wages for New or Reassigned FTEs	\$720
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$720</b>

## University of Houston-Downtown

**Entry:** 1

**Title:** Texas Comprehensive Research Fund

**Description:** Support the University of Houston-Downtown's Office of Sponsored Research and Programs.

**Purpose/Intent:** The funding is used to support the Office of Research and Sponsored Programs which facilitates and oversees the research and grant process for the university, including identifying new and available funding, assisting with proposals and post-award support.

**Benefit for the State or Institution:** The funding provides support for the University's effort to expand its research opportunities, to create new funding sources through additional grant funds and indirect cost recovery as well as providing the proper administration of existing grants. Also to ensure adherence to compliance requirements.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$150,876
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$150,876</b>

## University of Houston-Victoria

**Entry:** 1

**Title:** FY18 TCRF CARRY FORWARD

**Description:** Purchase research lab equipment to install in the new STEM building.

**Purpose/Intent:** The purpose is to provide faculty with the laboratories and research support they need to conduct research and compete for extramural research grants. Properly equipped research labs are critical to retaining and recruiting high quality faculty and students at the University of Houston-Victoria.

**Benefit for the State or Institution:** Laboratory and research investments will bring both the University and the State more top faculty and students, higher levels of research funding, and the development of new technologies, all of which are critical to the economic future of Texas.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$11,347
<b>Total</b>	<b>\$11,347</b>

## University of North Texas

### Entry: 1

**Title:** Faculty Seed Research

**Description:** Provides faculty with seed funding to pursue new research projects.

**Purpose/Intent:** Funding to support faculty research that seeds the pursuit of extramural sponsored grants.

**Benefit for the State or Institution:** Promotes faculty participation in pursuing new research opportunities by increasing accessibility to startup funding resources. The preliminary research being conducted becomes the foundation for extramural grant proposal submissions which further grows research activity at the university.

Salaries/Wages for New or Reassigned FTEs	\$5,318
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$399
Capital Expenditures	\$0
<b>Total</b>	<b>\$5,717</b>

### Entry: 2

**Title:** Shared Research Facilities

**Description:** Support of University Shared Research Facilities: Characterization Lab, Nanofabrication Cleanroom, Additive Manufacturing Lab, Vivarium Animal Lab, High Performance Computing (TALON).

**Purpose/Intent:** Enables researchers centralized access to elite high-tech research equipment and professional laboratory staff. Shared facilities foster increased cross-collaboration between researchers.

**Benefit for the State or Institution:** University managed and supported shared research facilities allow researcher's access to sophisticated research equipment and instruments that would otherwise be unattainable. Shared research facilities are a cost-efficient solution that benefit researchers across a wide range of academic disciplines. Centralized research facilities also enhance research innovation by fostering interdisciplinary collaboration between UNT researchers, other universities, and industry partners.

Salaries/Wages for New or Reassigned FTEs	\$18,818
Salaries/Wages for Existing FTEs	\$222,462
Operating Expenses	\$156,799
Capital Expenditures	\$393,243
<b>Total</b>	<b>\$791,322</b>

**Entry: 3**

**Title:** Research Support Staff

**Description:** Staff specifically devoted to assisting research development at the university.

**Purpose/Intent:** Provide researchers with assistance from professional staff for all aspects of successfully conducting research.

**Benefit for the State or Institution:** Ensures researchers have a full support system of professional staff to assist them throughout the entire research grant award process. This helps increase the success of researchers in identifying and obtaining external grant funding, staying compliant with governmental regulations and reporting, and the promotion and marketing of research being conducted at the university.

Salaries/Wages for New or Reassigned FTEs	\$15,167
Salaries/Wages for Existing FTEs	\$93,401
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$108,568</b>

**Entry: 4**

**Title:** Student Research

**Description:** Support for graduate and undergraduate students to conduct research.

**Purpose/Intent:** Funding to support student research projects, and the presentation and publication of their research.

**Benefit for the State or Institution:** Enhances the learning experiences for students and encourages their pursuit of conducting research to enhance innovation at the university.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$5,150
Capital Expenditures	\$0
<b>Total</b>	<b>\$5,150</b>

**Entry: 5**

**Title:** Institutes of Research Excellence

**Description:** Support for Institutes of Research Excellence – Advanced Environmental Research Institute (AERI), Advanced Materials Manufacturing and Processes Institute (AMMPI), BioDiscovery Institute (BDI), & Jim McNatt Institute for Logistics Research (JMI).

**Purpose/Intent:** Development and support for Research Institutes of Excellence including: research staff, supplies, equipment, and laboratory renovations.

**Benefit for the State or Institution:** The Institutes of Research Excellence bring together a critical mass of knowledge and faculty research collaboration on projects designed to create a stronger platform for interdisciplinary research and partnerships with industry to create innovative solutions to complex problems. These institutes further contribute to economic growth in the North Texas region.

Salaries/Wages for New or Reassigned FTEs	\$78,855
Salaries/Wages for Existing FTEs	\$387,573
Operating Expenses	\$37,453
Capital Expenditures	\$0
<b>Total</b>	<b>\$503,880</b>

**Entry:** 6

**Title:** Faculty Research Projects

**Description:** Support for faculty to conduct research projects.

**Purpose/Intent:** Provides faculty researchers with the resources required to conduct research projects.

**Benefit for the State or Institution:** Provides funding support for faculty researchers such as graduate research assistant staff, lab supplies, and research equipment. This funding increases the volume of research projects being conducted, ensures that the scope of research projects are effective, and furthers faculty researchers ability to obtain new, extramural grant award funding for the university.

Salaries/Wages for New or Reassigned FTEs	\$568,755
Salaries/Wages for Existing FTEs	\$335,474
Operating Expenses	\$6,358
Capital Expenditures	\$96,375
<b>Total</b>	<b>\$1,006,962</b>



## University of North Texas-Dallas

**Entry:** 1

**Title:** Undergraduate Research Materials

**Description:** Chemicals, microorganisms, and lab pipettor.

**Purpose/Intent:** Undergraduate research support.

**Benefit for the State or Institution:** These materials will help the advancement and success of undergraduate research work in the Department of Life and Health Sciences.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,523
Capital Expenditures	\$0
<b>Total</b>	<b>\$1,523</b>

## West Texas A&M University

### Entry: 1

**Title:** Sponsored Research Services (SRS)

**Description:** Salary.

**Purpose/Intent:** Pays salary for the pre award sponsored project function.

**Benefit for the State or Institution:** SRS supports faculty and staff campus-wide by identifying external funding opportunities. Sponsored project administration and compliance requirements for externally sponsored projects are supported through SRS. Internal grant competitions for faculty, graduate students and undergraduate students are also administered from this office. The internal grant programs provide students in all fields of study exposure to the research environment and facilitates faculty in acquiring preliminary data used in their external proposals. Non-financial post award administration is also managed in the office of Sponsored Research Services.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$129,797
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$129,797</b>

### Entry: 2

**Title:** Academic & Research Environmental Health and Safety (AR-EHS)

**Description:** Salary.

**Purpose/Intent:** Partially pays for the Director's salary.

**Benefit for the State or Institution:** AR-EHS supports academic and research by providing a safe educational and research environment for students, staff and faculty. The office provides safety inspections to ensure all activities are conducted in accordance with all environmental regulations and laws.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$23,372
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$23,372</b>

### Entry: 3

**Title:** School of Engineering, & Computer Science & Mathematics

**Description:** Lab Filtering Equipment.

**Purpose/Intent:** Filtering hazardous materials.

**Benefit for the State or Institution:** Provides increased lab safety.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$4,314
Capital Expenditures	\$0
<b>Total</b>	<b>\$4,314</b>

**Entry: 4**

**Title:** Feedlot Research Group

**Description:** VetScan Analyzer.

**Purpose/Intent:** To allow quantification of serum chemistry variables in cattle enrolled in research trials and enhance the capability of the Animal Health Laboratory at WTAMU.

**Benefit for the State or Institution:** This equipment allows improved understanding of the impact of stress, nutritional status, and feed additives in beef cattle that will help determine best management practices and efficacy of various animal health and performance products tested in research conducted at WTAMU.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$15,000
Capital Expenditures	\$0
<b>Total</b>	<b>\$15,000</b>

**Entry: 5**

**Title:** Core Laboratories

**Description:** Salary.

**Purpose/Intent:** Partially pays for the Lab Director's salary.

**Benefit for the State or Institution:** The Core Lab supports laboratory research by providing faculty and students with shared equipment and expertise to achieve their research goals.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$26,319
Operating Expenses	\$0
Capital Expenditures	\$0
<b>Total</b>	<b>\$26,319</b>

**Entry: 6**

**Title:** Feedlot Research Group

**Description:** Silencer Cattle Chute.

**Purpose/Intent:** To appropriately equip a new Animal Health facility where intensive and biosecurity research will be conducted. It will allow for low-stress cattle handling and restraint to collect various samples in research trials.

**Benefit for the State or Institution:** The equipment will enhance our research capability at WTAMU and attract extramural funding to conduct intensive cattle research. It also expands our ability to conduct more research and the equipment is necessary to handle and restrain cattle for management, treatment, and sample collection purposes.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$29,422
Capital Expenditures	\$0
<b>Total</b>	<b>\$29,422</b>

**Entry:** 7

**Title:** Department of Psychology, Sociology & Social Work

**Description:** Algometer.

**Purpose/Intent:** Pain tolerance meter.

**Benefit for the State or Institution:** This was part of a research start up package for new faculty member in Psychology.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$770
Capital Expenditures	\$0
<b>Total</b>	<b>\$770</b>



This document is available on the [Texas Higher Education Coordinating Board website](#).

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