

**Expenditures under Core Research
Support Fund (CRSF) and Texas
Comprehensive Research Fund
(TCRF) Fiscal Year 2020**

January 2021

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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 using 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's 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 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's 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 in the Texas Legislature. These funds may be used for two additional fiscal years beyond the original appropriation year until the funds are spent, encumbered, 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 either the CRSF or the TCRF submit an annual report documenting the use of the appropriated funds for the preceding fiscal year. This report provides the summary information for each institution that received CRSF or TCRF funding.

A summary of expenditures under the CRSF in FY 2020 is presented in Table 1. A summary of expenditures under the TCRF in FY 2020 is presented in Table 2.

Table 1. Fiscal Year 2020 Expenditures from Core Research Support Fund

Institution	Salaries/Wages for New or Reassigned FTEs	Salaries/Wages for Existing FTEs	Operating Expenses	Capital Expenditures	Total
TXST	\$0	\$4,355,574	\$152,669	\$212,248	\$4,720,491
TTU	\$878,978	\$10,301,329	\$336,375	\$91,773	\$11,608,455
UH	\$0	\$8,267,925	\$537,358	\$301,415	\$9,106,698
UNT	\$484,150	\$1,310,408	\$370,233	\$97,638	\$2,262,429
UT-Arlington	\$0	\$6,757,244	\$0	\$0	\$6,757,244
UT-Dallas	\$0	\$7,948,135	\$474,732	\$157,520	\$8,580,387
UT-El Paso	\$3,558,457	\$3,188,247	\$560,336	\$140,936	\$7,447,976
UT-San Antonio	\$493,307	\$3,409,364	\$952,691	\$99,690	\$4,955,052
Total	\$5,414,892	\$45,538,226	\$3,384,394	\$1,101,220	\$55,438,732

Source: Institutional Core Research Support Fund expenditure reports

Note: Amounts are rounded to the nearest dollar.

Table 2. Fiscal Year 2020 Expenditures from Texas Comprehensive Research Fund

Institution	Salaries/Wages for New or Reassigned FTEs	Salaries/Wages for Existing FTEs	Operating Expenses	Capital Expenditures	Total
Angelo	\$6,903	\$6,078	\$5,267	\$0	\$18,248
Lamar	\$0	\$0	\$121,769	\$0	\$121,769
MSU Texas	\$0	\$0	\$0	\$33,586	\$33,586
Prairie View	\$307,025	\$212,196	\$30,072	\$101,063	\$650,356
SHSU	\$0	\$236,356	\$0	\$0	\$236,356
SFA	\$0	\$15,000	\$20,511	\$33,264	\$68,775
Sul Ross	\$54,046	\$86,151	\$0	\$0	\$140,197
Tarleton	\$0	\$445,068	\$9,283	\$0	\$454,351
TAM-I	\$0	\$221,013	\$0	\$0	\$221,013
TAMU-Commerce	\$0	\$136,949	\$0	\$0	\$136,949
TAMU-CC	\$16,440	\$703,220	\$428,757	\$1,432	\$1,149,849
TAMU-Galveston	\$35,365	\$160,490	\$44,386	\$58,738	\$298,979
TAMU-Kingsville	\$0	\$719,541	\$111,307	\$5,863	\$836,711
TAMU-San Antonio	\$0	\$0	\$13,882	\$0	\$13,882
TAMU-Texarkana	\$0	\$0	\$4,564	\$800	\$5,364
TSU	\$0	\$104,410	\$21,425	\$35,840	\$161,675
TWU	\$0	\$94,841	\$421	\$0	\$95,262
UH-Clear Lake	\$45,335	\$14,960	\$11,586	\$0	\$71,881
UH-Downtown	\$105,687	\$76,746	\$0	\$0	\$182,433
UH-Victoria	\$0	\$0	\$0	\$0	\$0
UNT-Dallas	\$0	\$0	\$0	\$0	\$0
UT-Permian	\$0	\$1,365	\$6,492	\$0	\$7,857
UT-RGV	\$507,577	\$24,000	\$302,699	\$3,800	\$838,076
UT-Tyler	\$40,852	\$0	\$43,442	\$0	\$84,294
WTAMU	\$12,726	\$139,788	\$0	\$0	\$152,514
Total	\$1,131,956	\$3,398,172	\$1,175,863	\$274,386	\$5,980,377

Source: Institutional Texas Comprehensive Research Fund expenditure reports

Note: Amounts are rounded to the nearest dollar.

Angelo State University

Entry: 1

Title: "Use of Halophytes Grown in Zeolite as Safe Disposal of Reverse-Osmosis Concentrate from Desalination Plants"

Description: Faculty salaries, student wages, and materials and supplies necessary to conduct research.

Purpose/Intent: To research novel methods for neutralizing waste products from the desalination process.

Benefit for the State or Institution: This project addresses water use issues in west central Texas, which continues to suffer from cycles of drought. Desalination of ocean water and brackish groundwater can relieve stress on freshwater sources, but the resulting waste—highly concentrated brine—creates its own environmental threats. The research conducted with these funds is designed to help us find new avenues for handling these waste products from the desalination process.

Salaries/Wages for New or Reassigned FTEs	\$6,903
Salaries/Wages for Existing FTEs	\$6,078
Operating Expenses	\$1,601
Capital Expenditures	\$0
Total	\$14,582

Entry: 2

Title: New faculty research start-up support: microbiology

Description: Small scientific equipment (electrophoresis system and electrophoretic transfer cell) for use in research.

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

Benefit for the State or Institution: The researcher is focused on identifying the molecular function of bacterial effector proteins in the pathogen *C. burnetii*. This basic research is focused on understanding the mechanisms of its pathogenicity, which could ultimately be of use in both human and animal health. Components of the research will also involve undergraduate students in high-quality research experiences, preparing them for graduate programs and/or the workforce.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,992
Capital Expenditures	\$0
Total	\$1,992

Entry: 3

Title: New faculty research start-up support: computer science

Description: Unmanned ground vehicle (ground robot) for use in research.

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

Benefit for the State or Institution: The researcher is working on coverage path planning for non-holonomic, unmanned ground vehicles (UGVs). This research is ultimately designed to help inform the use of UGVs in disaster situations. Undergraduate students will also have the opportunity to engage in high quality robotics research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,674
Capital Expenditures	\$0
Total	\$1,674

Lamar University

Entry: 1

Title: Cayuse grants management software

Description: Specialty software for all IRB submissions, grant submissions, and grant document retention.

Purpose/Intent: Streamlines process for IRB submission, grant preparation, grant proposals, grant submissions, and grant management.

Benefit for the State or Institution: Cayuse is an intuitive, electronic, research administration system that provides complete and real-time research solutions for sponsored projects, pre-award, post-award, compliance, etc. Cayuse encompasses every facet of the research process. Using Cayuse provides transparency and saves cost in the workforce.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$94,445
Capital Expenditures	\$0
Total	\$94,445

Entry: 2

Title: Biomedical research training

Description: Specialty software for human subjects research training, IRB protocol, biosafety/biosecurity, conflict of interest, export compliance, IACUC administration, clinical trial compliance, and animal care.

Purpose/Intent: Provides research-related trainings for faculty/staff/students on lab safety, human subject research, and research integrity.

Benefit for the State or Institution: The Collaborative Institutional Training Initiative (CITI) provides high-quality, web-based educational courses in research, ethics, regulatory oversight, responsible conduct of research, research administration, and other topics pertinent to the interests of member organizations. Materials are designed and regularly updated to enhance the knowledge of investigators, staff, and students conducting research in the United States and internationally. CITI also educates members, administrators, and leaders of ethics committees who review and oversee research. This greatly reduces the need for performing face-to-face trainings that are usually not possible due to scheduling.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$5,000
Capital Expenditures	\$0
Total	\$5,000

Entry: 3

Title: Infoready Corporation

Description: Specialty software for internal competitions, limited submissions, and awards.

Purpose/Intent: Streamlines process for internal research enhancement grants, faculty fellowship grants, and limited submission proposals.

Benefit for the State or Institution: InfoReady is a web-based, internal, proposal submission system that reduces the time spent checking applications, routing proposals to reviewers, and aggregating scores. The software program works with limited submissions, internal funding grants, awards, nominations, development grants, sabbatical approvals, and tenure and promotion submissions. It allows a transparent and compliant operation of internal grant competitions and selections.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$9,500
Capital Expenditures	\$0
Total	\$9,500

Entry: 4

Title: ProQuest LLC

Description: National database for collaborative grant efforts internally and externally. Works in conjunction with Cayuse.

Purpose/Intent: Provides grants database for faculty and students in a wide variety of research areas.

Benefit for the State or Institution: Pro-Quest (Pivot) database provides a single source for scholarly journals, newspapers, reports, working papers, and datasets. It reduces the time researchers must spend searching for information and collaborative efforts, allowing more time devoted to research. Pivot has a partnership with Cayuse to provide users immediate access to proposals for submission. It saves time and effort for the principal investigator.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$7,651
Capital Expenditures	\$0
Total	\$7,651

Entry: 5

Title: Miscellaneous computer supplies purchased from GovConnection, Inc. and CDW Government (CDW-G)

Description: Computer supplies for research administration.

Purpose/Intent: Provides hardware and computer supplies for staff members to work on research administration.

Benefit for the State or Institution: GovConnection and CDW-G are both approved vendors for computer purchases that enable employees to complete workflows quickly and efficiently.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$5,173
Capital Expenditures	\$0
Total	\$5,173

Midwestern State University

Entry: 1

Title: PCR research equipment

Description: Two MiniAmp Plus Thermal Cyclers from Thermo Fisher Scientific.

Purpose/Intent: Used in research involving polymerase chain reaction (PCR) applications.

Benefit for the State or Institution: This equipment will be dedicated solely for research for three faculty members and not shared for use with classes.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$6,839
Total	\$6,839

Entry: 2

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 fit the needs of our faculty and institution.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$1,540
Total	\$1,540

Entry: 3

Title: Manual lift table for School of Visual Arts

Description: Purchase of a Uline Manual Lift Table for use in ceramics and sculpture.

Purpose/Intent: Provides support for faculty research and creative activity.

Benefit for the State or Institution: Allows faculty doing creative and scholarly work in ceramics and sculpture to move heavy materials more efficiently.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$759
Total	\$759

Entry: 4

Title: Slipcasting for ceramics

Description: Purchase of a 30-gallon casting machine from Lehman Manufacturing and Hoosier Metal Polish.

Purpose/Intent: Provides support for faculty research and creative activity.

Benefit for the State or Institution: This purchase will allow the faculty member in ceramics to work with slipcasting (mixing and dispensing slip into molds) for creative and scholarly work.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$896
Total	\$896

Entry: 5

Title: Research documentary equipment

Description: Sony PXW-FS5M2 camcorder and Sennheiser MKH416-p48U3 microphone.

Purpose/Intent: Used to create professional video to develop promotions and produce documentaries.

Benefit for the State or Institution: This purchase will benefit the College of Fine Arts in multiple levels, allowing faculty to produce stunning professional video to develop promotions and produce research documentaries.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$6,185
Total	\$6,185

Entry: 6

Title: Theatre lighting research

Description: Various LED wash fixtures and strip lights.

Purpose/Intent: Support faculty research in the area of lighting design.

Benefit for the State or Institution: The faculty member's current research interests relate to comparing and contrasting low-end LED technology, the goal being to determine the various units' capabilities, including brightness, color saturation, dimming capabilities, basic control, and special effects features. This research will eventually allow the faculty member to offer an alternative methodology for teaching lighting design even if students are engaged in distance learning.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$1,836
Total	\$1,836

Entry: 7

Title: Biomechanical analysis of trunk stability during drop-landing tasks

Description: Alken, Inc. motion capture system.

Purpose/Intent: This equipment will be used to support faculty research involving motion capture of human participants.

Benefit for the State or Institution: The purpose of this proposal is to explore the neuromuscular control mechanisms of the trunk by exploring trunk stability and balance during drop landings. Three randomized conditions (maintaining a rigid trunk, maintaining a relaxed trunk, or performing an abdominal hollowing technique) will be presented to a healthy population during double-leg landings from fall heights of 12 inches, 24 inches, and 36 inches. Healthy participants from the university athletics community will be recruited. They will be required to perform three trials of drop landings from each landing height, in randomized order, for a total of 27 landing trials (3 heights x 3 trunk conditions x 3 trials). Electrodes will be used to record muscle activation patterns, while motion sensors will collect data for analyzing the trunk. The information will be used to further understand trunk movement control and lead to explorations of trunk control in other populations.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$6,479
Total	\$6,479

Entry: 8

Title: Effects of dance-based exercise on body composition, physical fitness, and cognitive function in the elderly population

Description: Purchase of Actilife 6 Single software (including 1 full and 5 lite activations), 20 activity monitors, 20 wristbands, and related accessories.

Purpose/Intent: Purchase Actigraph activity monitors to track the physical exertion of participants in a research study.

Benefit for the State or Institution: This research will investigate the effects of a dance-based exercise program on body composition, physical fitness, and cognitive function in the elderly population. This advances faculty research and involves student researchers.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$5,000
Total	\$5,000

Entry: 9

Title: Investigating executive functioning of musicians by assessing stereotype inhibition

Description: Purchase of E-Prime software and equipment to record reaction times in the present research project and support future research applications.

Purpose/Intent: The E-prime software and the Chronos trigger pads will be used to design and carry out experiments and record reaction times. This software and equipment will last indefinitely beyond the lifetime of the proposed research.

Benefit for the State or Institution: This faculty research project will investigate the incidence of stereotypical thinking among musicians and non-musicians to examine whether cognitive abilities associated with learning an instrument transfer to the ways in which we evaluate others.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$2,613
Total	\$2,613

Entry: 10

Title: Outdoor public sculptures

Description: Purchase of a horizontal bandsaw from Global Industrial.

Purpose/Intent: The bandsaw will support faculty research and creative endeavors by allowing the faculty member to make custom-cut larger size materials.

Benefit for the State or Institution: The requested bandsaw will support faculty creative and research activities and can be used for future projects. The bandsaw allows cuts up to 7 inches in diameter, in various shapes and angles, in materials such as solid metal bar, tube, I-beam, c-channel, etc. Currently, the sculpture faculty member only has a chop saw for cutting smaller solid metal.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$1,439
Total	\$1,439

Prairie View A&M University

Entry: 1

Title: Office of Sponsored Programs

Description: This office offers research administrative support in seeking and securing funding and ensuring PVAMU is compliant with sponsor guidelines.

Purpose/Intent: The purpose of the office is to support and stimulate all aspects of research and other innovative activities at PVAMU.

Benefit for the State or Institution: This project is a good investment for the university because it offers the support faculty researchers need with submitting grant proposals and also having post-award services when submitting reports to external funding agencies.

Salaries/Wages for New or Reassigned FTEs	\$33,820
Salaries/Wages for Existing FTEs	\$175,834
Operating Expenses	\$15,888
Capital Expenditures	\$13,233
Total	\$238,775

Entry: 2

Title: Innovation, Commercialization, Entrepreneurship & Economic Development (ICEED) program

Description: This program fosters a culture of entrepreneurial talent, ideas, and opportunities through a variety of faculty- and student-centered programs, funding support, competitions, and access to start-up resources.

Purpose/Intent: The purpose of ICEED is to promote greater economic development and impact on the university, region, and the state of Texas.

Benefit for the State or Institution: This project extends beyond the three PVAMU campuses into the Greater Houston area and state of Texas, whereby inventors and entrepreneurs of color predominantly drive the university's support for wealth and job creation.

Salaries/Wages for New or Reassigned FTEs	\$232,981
Salaries/Wages for Existing FTEs	\$36,362
Operating Expenses	\$8,902
Capital Expenditures	\$61,380
Total	\$339,625

Entry: 3

Title: Physics radiation biology

Description: This program will increase the understanding of radiation particle damage at the cell and DNA levels.

Purpose/Intent: To enhance the capabilities of radiation biology research at PVAMU.

Benefit for the State or Institution: Advances in radiation biology have several overarching benefits, including the understanding of the space radiation environment for long-duration human exploration missions, applications in radiation oncology, and cancer treatment with protons and heavy ions.

Salaries/Wages for New or Reassigned FTEs	\$40,224
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$5,282
Capital Expenditures	\$26,450
Total	\$71,956

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	\$236,356
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$236,356

Stephen F. Austin State University

Entry: 1

Title: Faculty/GRA collaborative research

Description: Funds for graduate research assistant (GRA) salary and research for selected departments.

Purpose/Intent: Provided salary support for one GRA and research supplies in the Department of Geology.

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	\$0
Salaries/Wages for Existing FTEs	\$15,000
Operating Expenses	\$7,286
Capital Expenditures	\$0
Total	\$22,286

Entry: 2

Title: Office of Research and Graduate Studies (ORGS) research development

Description: Purchased software licenses to support faculty research activities (some salary for personnel to assist with grants, but position has not been refilled).

Purpose/Intent: The staff position and software allow ORGS 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	\$0
Operating Expenses	\$13,225
Capital Expenditures	\$0
Total	\$13,225

Entry: 3

Title: Soil, plant, and water analysis laboratory research equipment

Description: Partial funding for research equipment in the university soil lab.

Purpose/Intent: Provided partial funding for a continuous flow analyzer for mineral nitrogen in soil and water.

Benefit for the State or Institution: These funds enable faculty in the College of Forestry and Agriculture to perform soil and water analysis to aid in research pertaining to animal consumption, aquaculture, irrigation, and environmental quality assessment.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$33,264
Total	\$33,264

Sul Ross State University

Entry: 1

Title: Research assistants

Description: Provide research opportunities for Sul Ross State University students.

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

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

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$5,942
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$5,942

Entry: 2

Title: Archives of the Big Bend

Description: Provide research opportunities for Sul Ross State University 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 it supports the academic mission of the university as a department of the library.

Benefit for the State or Institution: The Archives of the Big Bend collection area serves as a teaching facility for Sul Ross State University students, and archive staff 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	\$23,549
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$23,549

Entry: 3

Title: Office of Sponsored Programs

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 Sul Ross State University.

Benefit for the State or Institution: The office promotes research administration by providing administrative support in seeking and securing funding and ensuring Sul Ross State University is compliant with sponsor guidelines.

Salaries/Wages for New or Reassigned FTEs	\$36,232
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$36,232

Entry: 4

Title: Borderlands Research Institute (BRI)

Description: Provide research opportunities for Sul Ross State University 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	\$41,064
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$41,064

Entry: 5

Title: Center of 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 the university community and the public.

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	\$17,814
Salaries/Wages for Existing FTEs	\$15,596
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$33,410

Tarleton State University

Entry: 1

Title: Instructional Grants and Contracts

Description: Instructional Grants and Contracts provides operation funding for the Office of Sponsored Projects. This office supports external grant development campuswide and assists all university departments in seeking sources for grants, writing grant proposals, and providing other pre-award and post-award support.

Purpose/Intent: Providing funding to the university office is instrumental in obtaining external grants and grant funding.

Benefit for the State or Institution:

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$24,483
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$24,483

Entry: 2

Title: Texas Institute of Applied Environmental Research

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

Purpose/Intent: 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.

Benefit for the State or Institution:

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$168,532
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$168,532

Entry: 3

Title: Organized Research Program

Description: The Organized Research Program provides financial support for the individual research projects of at least eight faculty members across the university's colleges and academic disciplines.

Purpose/Intent: Provides direct funding to the faculty for the university research mission.

Benefit for the State or Institution:

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$252,053
Operating Expenses	\$9,283
Capital Expenditures	\$0
Total	\$261,336

Texas A&M International University

Entry: 1

Title: Comprehensive Research Fund

Description: No description submitted.

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

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

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$221,013
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$221,013

Texas A&M University-Commerce

Entry: 1

Title: Senior Project Administrator

Description: Salary for professional position 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. 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	\$36,683
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$36,683

Entry: 2

Title: Research Compliance Coordinator

Description: Salary 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, and responsible conduct of research.

Benefit for the State or Institution: Ensuring that all externally funded research follows all appropriate guidelines and 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	\$45,122
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$45,122

Entry: 3

Title: Senior Proposal Administrator

Description: Salary for professional position responsible for the administration of externally submitted research proposals.

Purpose/Intent: To ensure timely and complete proposal submissions to grant agencies.

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	\$21,071
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$21,071

Entry: 4

Title: Research and Sponsored Programs Administrative Coordinator

Description: Salary for professional position responsible for providing administrative support to Office of Sponsored Projects 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	\$34,073
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$34,073

Texas A&M University-Corpus Christi

Entry: 1

Title: CRF-Gulf of Mexico Environmental Lab FY20

Description: Gulf of Mexico environmental studies.

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

Benefit for the State or Institution: Increases ability to submit proposals to federal funding agencies.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$9,312
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$9,312

Entry: 2

Title: TCRF-HARTE FY20

Description: TCRF-HARTE FY20

Purpose/Intent: Funds Ph.D. students, particularly those in studies relating to the Gulf of Mexico, 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	\$30,800
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$30,800

Entry: 3

Title: Cost share: red snapper

Description: TCRF-HARTE FY20 cost share companion account.

Purpose/Intent: Funds Ph.D. students, particularly those in studies relating to the Gulf of Mexico, 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 on red snapper abundance in the Gulf.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$11,200
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$11,200

Entry: 4

Title: MD 548001 red snapper abundance

Description: Gulf of Mexico Environmental Studies cost share companion account.

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

Benefit for the State or Institution: Increases ability to submit proposals to federal funding agencies using data gathered about red snapper abundance in the Gulf.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$14,982
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$14,982

Entry: 5

Title: TCRF - S&E - MARB CMSS FY20

Description: Salary support for Ph.D. students in the Marine Biology and Coastal Marine System Science programs.

Purpose/Intent: Cultivates a stronger research environment for students at Texas A&M University-Corpus Christi, particularly relating to Marine Biology and Coastal Marine System Science, and develops preliminary studies that can then be submitted for federal funding.

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

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$227,130
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$227,130

Entry: 6

Title: CRF Center for Coastal Studies FY20

Description: CRF Center for Coastal Studies FY20

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

Benefit for the State or Institution: Increases data collection/analysis and prepares preliminary projects for submission to federal agencies.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$31,908
Operating Expenses	\$12,982
Capital Expenditures	\$0
Total	\$44,890

Entry: 7

Title: TCRF - S&E FY20

Description: TCRF - S&E FY20

Purpose/Intent: Provides support for faculty in the College of Science and Engineering 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	\$0
Salaries/Wages for Existing FTEs	\$58,412
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$58,412

Entry: 8

Title: TRDF - OSRS ASSESSMENT FEES FY20

Description: This is to fund Office of Sponsored Research Services Assessment Fees for Texas A&M University-Corpus Christi.

Purpose/Intent: The funding is used to pay for Sponsored Research Services 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 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	\$350,405
Capital Expenditures	\$0
Total	\$350,405

Entry: 9

Title: TCRF - Discretionary FY19

Description: Funds research development and administration.

Purpose/Intent: This is to support research development and administration expenses.

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

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$1,432
Total	\$1,432

Entry: 10

Title: TCRF - Discretionary FY20

Description: Funds research development and administration.

Purpose/Intent: This is to support research development and administration expenses.

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

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$235,502
Operating Expenses	\$25,191
Capital Expenditures	\$0
Total	\$260,693

Entry: 11

Title: Characterization of the cellular mechanisms underlying the memory impairment caused by prolonged food deprivation in an invertebrate model.

Description: This project aims to use the lack of sensitization caused by prolonged food deprivation (PFD) to study the consequences of malnutrition on memory formation. It aims to investigate the cellular and biochemical substrates underlying the lack of sensitization induced by PFD.

Purpose/Intent: The goal of this project is to conduct foundational experiments for a new line of research characterizing the mechanisms underlying the lack of memory caused by PFD in Aplysia.

Benefit for the State or Institution: The experimental outcomes of this project will serve as the foundation to establish a new line of research in the principal investigator's (PI's) lab, in which the detrimental effects of malnutrition on memory formation will be investigated in an animal model amenable for cellular and biochemical analyses. The mechanistic insights gained in the Aplysia model can ultimately be used to help elucidate the debilitating consequences of malnutrition on memory in more complex organisms. The data collected by this TCRF project will be used for the preparation of the competitive renewal of the PI's current National Institutes of Health (NIH) grant.

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

Entry: 12

Title: COVID-19 research taskforce

Description: The project aims at simulating the spread of COVID-19, fitting statistical models to COVID-19 data, and generally assisting in processing this type of data.

Purpose/Intent: The goal of the research is to provide the citizens of the Coastal Bend, including Nueces County and Corpus Christi, with information on COVID-19 and to alert healthcare facilities if they are projected to be overburdened.

Benefit for the State or Institution: This project is a good investment because the projections made will be used in decision-making to determine how to react to the COVID-19 pandemic and staff hospitals. The results of the work have been presented on a weekly basis to the greater Coastal Bend area and have generated a fair amount of positive media attention for TAMU-CC.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$6,600
Operating Expenses	\$1,404
Capital Expenditures	\$0
Total	\$8,004

Entry: 13

Title: "Hurricane Boundary Layer Study with In-situ and Satellite Measurements"

Description: Hurricane track forecasts have been steadily improving in recent decades, especially after the satellite era started in the mid-1980s. However, hurricane intensity forecasts remain one of the biggest challenges in numerical weather prediction.

Purpose/Intent: The research proposes to study the boundary layer under tropical cyclone or hurricane conditions, i.e., hurricane boundary layer, and its characteristics with high-vertical-resolution dropsondes and GPS radio occultation profiles.

Benefit for the State or Institution: Tropical cyclones (TCs) are one of the most dangerous natural disasters. A better understanding of the TCs, their evolution, and factors influencing their evolution is of significant scientific interest. This study will improve understanding of storm intensification and the hurricane track and intensity forecasts in the weather models, and therefore will benefit our society, especially our coastal communities that are vulnerable to the TCs. Better observation and improved understanding of the hurricane genesis/evolution are critically needed to help improve the hurricane intensity forecasts. The accurate hurricane track and intensity forecasts are both essential for clear dissemination of hurricane warning products that allows the public and their local emergency managers to make plans to secure their property and take other necessary measures to protect themselves in the days and hours prior to a hurricane landfall.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$6,964
Operating Expenses	\$6,682
Capital Expenditures	\$0
Total	\$13,646

Entry: 14

Title: "Advanced Human–Technology Interaction Design in Wearable Activity Tracking Devices for Maximizing Health Benefits"

Description: Wearable activity trackers have significant potential for monitoring physical and mental well-being. The use of activity trackers in medical and fitness applications is growing rapidly. These devices can monitor various vital physiological signs.

Purpose/Intent: The objective of this proposal is to identify and implement an advanced human-technology interaction that will motivate users to use activity trackers on a long-term basis, thereby promoting regular physical activity (PA).

Benefit for the State or Institution: This project will promote the long-term use of activity trackers in various user groups to encourage regular PA and reduce the risk of obesity and related chronic diseases like cancers. Specifically, an accurate energy expenditure model, wearable PA data validation, and a comfortability scale of wearable devices will lead to an interactive intervention program and effective health information feedback that motivates the long-term use of activity trackers among various user populations. The interdisciplinary research outcomes will benefit the Innovative Aging Research Initiative, which is one of Texas A&M University-Corpus Christi’s research agenda items, and will be an example of research collaboration to span across college boundaries and faculty expertise. In addition, this research will expand the resource to seek diverse external funding from NIH, NIA (National Institute on Aging), National Cancer Institute, and other aging and biomechanical-related funding agencies.

Salaries/Wages for New or Reassigned FTEs	\$2,280
Salaries/Wages for Existing FTEs	\$10,800
Operating Expenses	\$7,165
Capital Expenditures	\$0
Total	\$20,245

Entry: 15

Title: "Development of Bio-Inspired Water Oxidation Catalysts for H₂ Production for Energy Applications"

Description: Current carbon-based, finite energy sources (mainly fossil fuels) damage the environment and human health. This project will develop and test novel synthetic methodologies to assemble catalysts (metal complexes), specifically the Mn₄CaO₅ clusters.

Purpose/Intent: The long-term goal is to develop cheap and efficient catalysts that mimic photosynthesis to oxidize water and eventually produce H₂ for use in fuel cells and automobiles.

Benefit for the State or Institution: This project will result into the development of cheap and efficient water oxidation catalysts that can produce H₂ gas, and hence provide a viable solution to the world's growing demand for clean and renewable sources of energy. Further, this research is well structured for both undergraduate and graduate students who will learn diverse synthetic methodologies, both in the organic and inorganic chemistry, and will get acquainted with a range of spectroscopic and kinetic techniques. These skills and techniques will make them confident and will motivate them to pursue science (chemistry) ahead in their career.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$20
Operating Expenses	\$3,413
Capital Expenditures	\$0
Total	\$3,433

Entry: 16

Title: "Mobile Geospatial Sensing for 3D Campus Survey and Indoor Localization"

Description: Texas A&M University-Corpus Christi (TAMU-CC), after being an island institute for a long time, is at a critical point in its development and expansion as a new R2 Doctoral University. According to the 2013 Executive Summary of TAMU-CC Campus Master Plan, by the year 2025, the university is projected to have over 20,000 students, doubling the fall 2012 enrollment and doubling the area of building space since 2013. With the growing enrollment and increasing academic, research, and housing needs, the university has been working hard to make important decisions to plan for the long-term future of both its Island and Momentum campuses. However, no such decision-making or strategic planning can be made without support from accurate and timely geospatial survey data.

Purpose/Intent: This study aims to create a web-based, 3D, campus point cloud product that is merged by a comprehensive collection of data from multiple mobile geosensing systems, and to provide a high-accuracy positioning service (within 10 miles) to smartphone users in TAMU-CC.

Benefit for the State or Institution: As a main deliverable in this project, a detailed, online, 3D campus geo-representation can be fed into decision-making processes to meet future challenges of a highly competitive higher education marketplace. From an admissions perspective, a web-based, 3D campus keeps us ahead of the technology curve and competitive against the peers across the country in the student recruitment process. Moving forward, the development of the project will pave the way for our submission of a future proposal requested by the National Institute of Standards and Technology , which has been seeking geospatial-driven, life-saving, and decision-support solutions to locate, track, and inform first responders while indoors under difficult conditions.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$12,786
Operating Expenses	\$7,213
Capital Expenditures	\$0
Total	\$19,999

Entry: 17

Title: "Characterizing Sex-Determining Regions in Southern Flounder and Other TPWD Hatchery Species"

Description: This is postdoctoral salary support for the titled research.

Purpose/Intent: The goal of the project is to identify regions of the genome involved in sex determination for southern flounder, red drum, and spotted seatrout. One of the main aims of this research is to inform the Texas Parks and Wildlife Department Coastal Hatcheries Program, which breeds all three species for stock enhancement, by allowing for the correct assignment of sex in potential brooders (before fish are mature and/or in spawning condition) and assessment of sex ratios in fish produced for release.

Benefit for the State or Institution: The postdoctoral scholar (postdoc) teaches a course spring, summer, and fall each year. Postdoc also writes proposals to enhance the university's visibility in reasearch. Postdoctoral scholars bring previous training and outside experience to laboratories and are able to act as semi-independent entities from the PI. Because postdocs have skill sets that complement, rather than match, the skills of the PI, they add new elements to research programs, expand the depth and influence of research, and provide valuable resources for graduate and undergraduate students. The productivity and creativity of postdoctoral scholars is vital to the success of the university as it builds toward emerging research status. Because the techniques employed in this study make use of massively parallel sequencing and the analyses involve high-level bioinformatics, the post-doctoral scholar will benefit by receiving training in state-of-the-art omics methodologies, making them highly competitive in the job market.

Salaries/Wages for New or Reassigned FTEs	\$9,792
Salaries/Wages for Existing FTEs	\$15,101
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$24,893

Entry: 18

Title: Scale Microchemistry as a Non-Lethal Alternative for Tracking Individually Variable Migration Patterns in Mobile Fish”

Description: The ambient water chemistry a fish is exposed to is reflected in some of its anatomical structures. Stable isotope and microchemical analysis of fish otoliths and muscle tissue have been used to analyze fish migratory behavior in many studies. Stable isotopes can reflect the food web a fish is a part of, and microchemical signatures are often a reflection of the salinity and chemical makeup of the area where a fish spends the majority of its life. In order to remove otoliths and muscle tissue from a fish, sacrifice of the subject is necessary.

Purpose/Intent: The research looks into scales as another structure of fish that experience deposition of stable isotopes and elements from the environment during their formation. The removal of scale for most species is a non-lethal process, making scale analysis a potentially advantageous way to determine fish migratory behavior without fish mortality. Laser ablation and stable isotope analysis of red drum scales will be completed and compared to the stable isotope and microchemical signatures of the otoliths and muscles tissue of this fish that were obtained in a previous study. If scales are determined to reveal comparable information to that of otoliths and muscle tissue, then this non-lethal method will be further validated as a suitable method for determining the migratory behavior of fishes.

Benefit for the State or Institution: Being able to analyze scales for this purpose offers the possibility of determining habitat use for a myriad of different species, telling us which habitats need to be preserved the most in order to allow populations to recover or avoid further decline. This can not only benefit threatened species, but it can also benefit various fisheries. With overfishing being such a prevalent problem in many commercial fisheries, insight into the habitat use of commercial species can help avoid stock crashes or fishery depletions as vital areas can be protected or more heavily regulated.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$800
Capital Expenditures	\$0
Total	\$800

Entry: 19

Title: "Islanders Helping the Early Acceleration of Readers Together (iHEART): A School-Based Tutorial Program for Teacher Candidates and Primary School Children"

Description: "Islanders Helping the Early Acceleration of Readers Together (iHEART)" is an in-school tutorial program for kindergarten, first-, and second-grade students who struggle with literacy tasks. At Kennedy Elementary, 100 students in kindergarten, first grade, and second grade are in need of intervention in reading. There is not a reading interventionist to provide supplementary services, and the school lacks adequate reading materials for small, group-guided reading instruction.

Purpose/Intent: Twice per week, undergraduate teacher candidates work with small groups of three students for 30 minutes. The children are selected by their classroom teachers to participate based on 1) their performance on reading assessments, and 2) daily informal classroom observations recorded during literacy instruction. The tutors are trained to deliver research-based reading instruction in the areas of letter identification, phonemic awareness, phonics, and continuous text reading.

Benefit for the State or Institution: Early reading intervention is key so children are ready to meet the challenges of complex texts and standardized testing. Early identification and rigorous instruction also decrease the number of children who are identified to receive special education services, which are costly to the district. Graduation rates will increase, as students will be more likely to stay in school if they are successful. They will also be more likely to pursue a college degree and subsequent career. Catching these readers up to their peers will have a broader impact on the community, because as literacy rates increase, the community will be a healthier place to reside. This initiative will also impact the Texas A&M University-Corpus Christi community as more teacher candidates, after experiencing the rewarding opportunity of working with readers who struggle, will have the desire to teach in a high-needs school. They will also engage in professional learning that will prepare them to enter their field-based courses, clinical experiences (student teaching), and eventually the teaching profession. In turn, they will be more likely to remain in their chosen profession. The collection and results of the data related to the program during the fall 2019 and spring 2020 semesters will be published in a national journal and the program's information will be shared at national conferences.

Salaries/Wages for New or Reassigned FTEs	\$278
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$518
Capital Expenditures	\$0
Total	\$796

Entry: 20

Title: "Contribution of Sediment Methane to the Atmosphere from Subtropical Lagoons of Corpus Christi, Texas"

Description: Methane is a greenhouse gas with an atmospheric warming potential roughly 25 times that of carbon dioxide. Long-term observation data show that atmospheric CH₄ levels over the Gulf of Mexico off the coast of Corpus Christi, Texas, are always higher than global averages. The PI's study in coastal Corpus Christi, Texas, showed that diffusive CH₄ released from the estuaries of Corpus Christi was much higher than the results from studies at the northern Gulf of Mexico, indicating the significant contribution of the coastal area to the local and global atmospheric CH₄ budget. Moreover, high diffusive CH₄ flux in the water column was supersaturated with dissolved oxygen, which is opposite to the prevailing viewpoint that CH₄ is produced only in hypoxic environments.

Purpose/Intent: This project will evaluate the contribution of sediment to the atmospheric CH₄ in the shallow water area, address the mechanism of CH₄ transport at the sediment-seawater and seawater-air interfaces, and explain why the PI's observation is in opposition to the current understanding of the CH₄ cycling, which will bring new insight into the global topic. Sediment core, water, and air samples will be collected at Upper Laguna Madre and Aransas Bay. The concentrations and stable carbon isotopes of dissolved CH₄ and CH₄ in the ambient air will be determined by gas chromatography and isotope-ratio mass spectrometry, respectively. Sediment incubation chambers and floating chambers will be deployed to measure sediment-to-water and water-to-air CH₄ fluxes. Finally, the box model will be applied to assess the contribution of sediment to the atmosphere CH₄ budget.

Benefit for the State or Institution: This project can provide more detailed information about CH₄ discharge and related environmental problems such as hypoxia in coastal areas, which will significantly influence the policy-making and regulatory actions on sustainable environmental and economic development and community resiliency, as well as coastal ecosystem and habitats protection and restoration. More broadly, it will lead to a greater understanding of the contributions of subtropical coastal areas on the global atmospheric CH₄ level, and thereby lead to a greater understanding of climate change. The results of this high-impact study will be presented at local (e.g. on campus or in the community), national, and international academic conferences (e.g., AGU Ocean Science Meeting and Gordon Research Conference) and published in a scientific journal with high reputation. Moreover, in this project, the PI will mentor an undergraduate researcher of Texas A&M University-Corpus Christi, providing research experience for the STEM undergraduate students.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$800
Capital Expenditures	\$0
Total	\$800

Entry: 21

Title: "Composition and Distribution of Epiphytic Algae within Seagrass through Image Analysis and Effect of Nutrient Level on Accumulation Pattern of Epiphytic Algae and Seagrass Morphology"

Description: Seagrasses, important marine plants providing important ecological service to the marine ecosystem, are under global loss threat from increasing human pressure. As a major component in seagrass ecosystems, algal epiphytes attaching on seagrass have multiple roles, such as supporting the food web, but excessive accumulations can be detrimental to seagrass by light attenuation and nutrient enrichment. Therefore, metrics of epiphytes have been regarded as bio-indicators for nutrient impact on estuarine ecosystem. Numerous studies of nutrient impacts on seagrass response focused on biomass and morphological response, which provide limited information on the complex relationship between epiphytes and their host. We assume that a major impediment to understanding nutrient-epiphyte-seagrass relationships is the lack of resolution of the traditional measurement (insufficient short-term variation data in epiphyte components and morphology of leaves) of epiphyte-seagrass interactions.

Purpose/Intent: The study proposes an accurate model of the dynamic epiphytic algae-seagrass relationship by high frequency measures to improve the understanding of seagrass response to nutrients.

Benefit for the State or Institution: The project will create innovative research methods to monitor seagrass ecosystems, which provide significant ecological services all over the world. A key point of this research is that an accurate epiphyte-seagrass dynamics model would clarify the correlation between nutrient level and epiphyte-seagrass system. With this correlation, it would be possible to build a new method to simulate epiphyte-seagrass resource relating to nutrient level. The new model will provide information for fisheries habitats management and detecting eutrophication in South Texas. The impact of nutrient level on seagrass and epiphytes interaction supports further research in the decline mechanism of seagrass beds and finds association among multiple stressors and challenges. Project results will be disseminated via conference presentations, peer-reviewed journal articles, and public outreach activities for improving the applicant's research ability.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$391
Capital Expenditures	\$0
Total	\$391

Entry: 22

Title: "The Effect of Pre-season on Renal Biomarkers in NCAA Division One Female Soccer Players in South Texas"

Description: Current research suggests that recurrent dehydration, strenuous physical exertion, and the development of heat illnesses may be associated with the development of acute and potentially chronic kidney dysfunction. South Texas pre-season conditions, in which collegiate soccer is performed in August, may warrant concern for developing kidney dysfunction and/or acute kidney injury (AKI). Furthermore, the NCAA only allocates 21 days of pre-season, in which coaches are responsible for preparing student-athletes for the competitive season. With a relatively short period of time to prepare athletes, the physiological demands are heightened so that athletes can endure 90- to 120-minute games in the competitive season. Thus, physiological characteristics of accumulating AKI may be present in the recurrent conditions of collegiate soccer pre-season.

Purpose/Intent: The purpose of this study is to investigate the effect of pre-season on renal biomarkers in NCAA Division One female soccer players in South Texas. To assess potential kidney injury, biomarkers neutrophil gelatinase-associated lipocalin (NGAL) and Cystatin C will be quantified via urinary excretion and assessed through individual enzyme-linked immunosorbent assay kits. Hydration status will be evaluated through measurements of urine-specific gravity and total body water content via the bioelectrical impedance analyzer, and field-based hydration status will be monitored through the evaluation of daily pre-post training weight fluctuations.

Benefit for the State or Institution: To the author's knowledge, no previous research has evaluated seasonal effects on renal function within a competitive sports team. This research has the potential to serve as a reference in the growing interest of renal function parameters. Furthermore, this research will not only impact the Islanders soccer team, but it may also serve as a reference to other individuals who may face similar situations. The findings may assist athletic trainers and coaches in assessing hydration status and, furthermore, renal function via noninvasive urinary biomarkers Cystatin C and NGAL.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$800
Capital Expenditures	\$0
Total	\$800

Entry: 23

Title: "Growth Rates as Indicators for Larval Fish Health Post Hurricane Harvey"

Description: Hurricane Harvey was a major ecological disaster that hit the coast of Texas late August 2017. The storm sent thousands of gallons of eutrophic freshwater into the Gulf of Mexico (GoM). Early life stages of fishes in the GoM are vulnerable to changes in environmental parameters and are unable to avoid sudden changes in environment due to their limited mobile range. While past hurricane-induced flooding events have been shown to alter the species composition and distribution of estuarine and oceanic phytoplankton and copepod communities, few studies have focused on how larval fish communities respond to hurricane-induced flooding events. This study is part of a larger research project that also investigates the response of phytoplankton and zooplankton community composition and trophic interaction resulting from the flood plume.

Purpose/Intent: The research aims to present an assessment of how the Hurricane Harvey floodwaters affected the larval fish community in the GoM near Galveston, Texas, by addressing the following questions: 1) How did the flood plume affect larval fish growth rates one and two months after the hurricane? 2) Did distance from the shore influence growth rates? For example, did inshore larvae have larger, smaller, or equal growth rates than larvae that were washed out to the mid-shore and offshore stations? To address our research questions, otoliths from larval fish collected in September and October 2017 will be analyzed. Larvae were collected along two Southeast Area Monitoring and Assessment Program transects perpendicular to the Galveston Bay shoreline using a 61cm Bongo net (335µm mesh).

Benefit for the State or Institution: The research project will be embedded in this larger project studying the effects of Harvey's freshwater bloom on the ecology of the ichthyoplankton in the eastern Gulf of Mexico. It also helps enhance Texas A&M University-Corpus Christi's recognition in the research community.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$599
Capital Expenditures	\$0
Total	\$599

Entry: 24

Title: "Analysis of Erosion and Subsidence in Texas Coastal Wetlands"

Description: This is postdoctoral salary support for the titled research.

Purpose/Intent: The project is designed to quantify environmental change and subsequent impacts to ecological processes within coastal wetlands.

Benefit for the State or Institution: First, the postdoctoral researcher (postdoc) teaches a course spring, summer, fall each year. The postdoc also writes a proposal to enhance the university's visibility in research. Second, by quantifying erosion and subsidence, we will be able to provide valuable information by identifying the following: 1) which TX coastal areas are most vulnerable to erosion and should be prioritized for protection; and 2) which coastal wetlands are better at ameliorating erosion/subsidence. Data will be shared with stakeholders including personnel from state (e.g., Texas Parks and Wildlife Department) and federal (e.g., Aransas National Wildlife Refuge) agencies. There is a huge data gap along the Texas coast regarding rates of shoreline erosion. Data from this project will not only fill this data gap, but will also be integrated with other surface elevation table projects (e.g., the Northern Gulf of Mexico Sentinel Site Cooperative) to improve the understanding of coastal processes and community resiliency at the local, state, and regional scales.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$30,000
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$30,000

Entry: 25

Title: "Influence of Different Freshwater Inflow Regimes on Phytoplankton Biomass and Community Composition in Three Texas Estuaries"

Description: Research has shown the importance of freshwater inflow as a driver of environmental conditions and planktonic production in estuaries. On the Texas coast, a sharp coastwide freshwater inflow gradient exists, which leads to diverse estuarine conditions ranging from river-influenced, low-salinity systems to semi-arid, hypersaline systems. Few studies have compared phytoplankton community composition in estuaries spanning this freshwater inflow. Gradient-three estuaries were chosen to represent this inflow gradient: San Antonio Bay (river influenced), Nueces-Corpus Christi Bay (limited river influence, strong ocean influence), and Baffin Bay (no major rivers, frequently hypersaline). Factors including water temperature, flow level, and nutrient availability that control the growth and prevalence of different phytoplankton taxa. This study will determine phytoplankton community composition in each of the estuaries and evaluate relationships between environmental conditions and these phytoplankton communities.

Purpose/Intent: The goal of this research is to determine the effects of freshwater inflow regimes on phytoplankton biomass and community structure. This will be accomplished by examining phytoplankton samples and hydrographic variables collected over 18 months in three South Texas bays along the coastal salinity gradient. Specific objectives of this project are 1) to determine phytoplankton community composition within each estuary, 2) to compare community composition between the three estuaries, and 3) to evaluate relationships between relevant environmental conditions (i.e. freshwater inflow, stratification, nutrients) and phytoplankton community composition.

Benefit for the State or Institution: Understanding phytoplankton ecology as it relates to freshwater inflows can inform ecosystem and watershed managers in their efforts to maintain healthy ecosystems, supporting commercial and recreational fisheries, as well as human health and well-being on the Texas Gulf Coast. Additionally, this study will deepen our understanding of how alteration of freshwater inflow may impact estuarine food webs and food security in this region. This project is undertaken with the support of the Texas Water Development Board, which can use these results to inform regional policy and to aid in their establishment of the freshwater inflow needs of Texas estuaries. Examining diverse systems in close regional proximity serves to eliminate compounding factors that would be present while studying similar types of systems in various geographical locations. Under future climate change scenarios, there is a predicted increase in the number of arid regions worldwide. An understanding of phytoplankton communities' function in hypersaline or reverse estuaries as opposed to a classic river-influenced system provides useful insight into ecosystems along the Texas Gulf Coast and could be applied to estuaries impacted by climate change in other regions of the world.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$797
Capital Expenditures	\$0
Total	\$797

Entry: 26

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	\$0
Operating Expenses	\$390
Capital Expenditures	\$0
Total	\$390

Entry: 27

Title: CAREER: Alterations in mollusk biomineralization by environmental stress

Description: Formation of the shell provides physical support and protection for many mollusk species. Failure of larvae to complete shell formation prevents food intake through filtration and eventually causes mortality. It is well known that the shell development, during the early life history stages of bivalves, is vulnerable to environmental stressors. The habitats of marine bivalves are commonly along coastal and estuarine areas. These areas often show great environmental variations caused by unique geographic conditions and human activities. Due to the lack of mobility during most of their life cycle, bivalves employ a rapid acclimation mechanism to adapt to highly dynamic and stressful environments. Although a few studies revealed the potential impact of environmental stress on bivalve shell formation, efforts in understanding the mechanism of this impact are very limited. The proposed study is to understand the molecular mechanisms of alteration in bivalve shell formation under environmental stress.

Purpose/Intent: The objectives of this study include: 1) to identify the morphological and chemical changes of shells under stress of ocean acidification (OA) and salinity fluctuation with the laboratory setup; 2) to identify the signaling pathway of shell formation in response to OA and salinity stress and intracellular calcium concentration in mantle cells; and 3) to evaluate the importance of the genes in the signaling pathway during the development and environmental change by mutagenesis to verify the roles of genes involved in shell formation pathways during the larval development.

Benefit for the State or Institution: Understanding the mollusk shell formation in response to environmental stress will contribute to building a healthy coastal environment for the development of mollusk populations. It will also benefit the fisheries of several mollusk species. This study will generate data for the research in animal biomineralization, which can be seen in many species. It allows other investigators to study the environmental impacts on calcifications in other important marine species. The result can be used as a reference for shellfish fisheries and aquacultures. It also helps in the restoration of mollusk habitats along the coast line.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,075
Capital Expenditures	\$0
Total	\$1,075

Entry: 28

Title: Communicating science

Description: Class to teach research communication skills to Texas A&M University-Corpus Christi faculty.

Purpose/Intent: The intent is to teach public speaking and communicating research agenda skills to Texas A&M University-Corpus Christi faculty.

Benefit for the State or Institution: The skills learned will allow the faculty to communicate their research agenda or to provide a layperson's perspective to their research agenda. With these skills, the faculty member will be able to communicate their research agenda to a broader audience and to apply these skills to possible granting foundations or institutions.

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

Entry: 29

Title: "Printing Women: Materializing Gender, Race, and Embodiment in the Modernist Marketplace"

Description: "Printing Women: Materializing Gender, Race, and Embodiment in the Modernist Marketplace" argues that a focus on the intersections of gender, race, and embodiment in the publication histories of women modernists transforms canonical literary modernism. It explores how female writers and their histories of print production and circulation challenge conventional genealogies of modernism. Many of the writers—both women of color and white women—as well as the archival materials at the heart of this book—marketing materials, dust jackets, illustrations, and editorial correspondence—have been marginalized and often erased from the history of transatlantic literary modernism. This project argues that in order to fully understand modernist literary cultures, we must center the experience of women writers, their print productions, and their complex engagements with print modernity.

Purpose/Intent: The final product will be the book manuscript of *Printing Women*. The PI will submit her prospectus to Edinburgh University Press and Oxford University Press in August 2022. The book will be of interest to scholars and to students in a range of fields, including modernist studies; feminist theory; women's, gender, and sexuality studies; media studies; book history and print culture studies; modern British and American history; visual culture studies; and material culture studies. Additionally, the PI will present her research from this book project at the Modernist Studies Association, Feminist Modernist Studies, and SHARP conferences and publish articles in major literary and feminist journals.

Benefit for the State or Institution: National Endowment for the Humanities grants are very prestigious and honor excellent scholarly work. The grant will allow the PI the time to finish her second book, which she will submit to a major press.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$300
Capital Expenditures	\$0
Total	\$300

Entry: 30

Title: Pilot surveys of corals in the Coastal Bend

Description: This project will focus on gathering pilot data on distribution and abundance of the coastal corals as well as and characterize the environment they are reside in.

Purpose/Intent: Funding is requested to purchase a kayak and associated gear (i.e., life jacket, paddle, seat, etc.) to conduct preliminary surveys, deploy environmental loggers, and collect water samples in Redfish Bay.

Benefit for the State or Institution: Unbeknownst to many local scientists, species of stony corals exist in our coastal waters. Documenting the abundance and distribution of these species has significant ecological and economical value for our local management agencies. Additionally, Redfish Bay has sensitive habitats (e.g., seagrass flats, oyster reefs, mangroves) and scientific and commercial value.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$486
Capital Expenditures	\$0
Total	\$486

Entry: 31

Title: "Coronavirus and Racial Discrimination: A Resume Audit Study"

Description: Previous research indicates that mortality salience (being reminded of death) results in heightened levels of outgroup stigmatization, especially towards marginalized communities. The fear and anxiety brought on by the current COVID-19 pandemic is likely to increase such outgroup stigmatization, however the severity of the virus' mortality salience remains unexamined. Better understanding of potential prejudice and discrimination caused by COVID-19 is particularly poignant given its racialized labeling as a "Chinese virus." Despite claims of entering a post-racial society, racism remains a pervasive social problem that negatively impacts the quality of life for people of color.

Purpose/Intent: This project will directly evaluate whether the mortality salience of COVID-19 influences racist attitudes and behaviors. Building on terror management theory, this project uses an experimental resume audit study to measure the effect COVID-19 mortality salience has on hiring recommendations for people of different races. In addition to extending terror management theory and providing a contemporary analysis of racial dynamics in an uncharted social territory, findings from this project could be used to underscore current efforts that attempt to mitigate and prevent racist behaviors and policies at both the interpersonal and institutional level.

Benefit for the State or Institution: Several products will result from this work, including: 1) interdisciplinary collaboration, 2) a journal article, 3) a conference presentation, and 4) a proposal for external research funding. The hope is to complete data collection by the end of May and have a paper written by the end of July. The plan is to submit this paper to the journal *Social Problems* for review in late summer/early fall. The PIs also plan to present their findings at the 2020 Southwestern Social Science Annual meeting in October. They anticipate completing a series of follow-up studies varying the conditions of our current experimental design. While resume audits are a widely supported measure of discriminatory behaviors, the PIs would like to assess how mortality salience caused by COVID-19 may affect perceptions on more specific and contemporary racialized topics, including immigration and building a wall on the U.S. Mexican border. The PIs also plan to more closely evaluate the effects of other demographic variables including gender and political ideology. The PIs plan to apply for a National Science Foundation Rapid Response Research grant in May 2020 to fund these subsequent studies.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,960
Capital Expenditures	\$0
Total	\$1,960

Entry: 32

Title: "Visualizing Social Distance Connections while Social Distancing"

Description: During the COVID-19 crisis, the PI's home dining room has become her home office/studio in order to continue her creative activity while sheltering at home and minimizing public interaction. This space does not have doors and is not appropriate for the equipment she would typically use in the sculpture studios on campus; thus, she has returned to drawing with graphite on wood panels to capture and express the complications of the current pandemic. The PI utilizes recognizable and seemingly neutral commonplace objects that are relatively ubiquitous to encourage audience engagement and connection. In her artworks, she utilizes these objects and materials to create moments of tension that make visible the thin lines of perception between desire and rejection.

Purpose/Intent: This series of artworks focuses on analog objects from the dustbin of communication technology. These mementos model for viewers the desire to touch, share, and listen, but as if they are slow public service announcements, the drawings also demonstrate social distancing as a fine art reminder of what 6 feet looks like. Each artwork features representational drawings done at actual scale of the object on an 8-foot-long panel of wood.

Benefit for the State or Institution: The PI would be able to afford to finish five artworks so that they are exhibition-ready for inclusion in an upcoming exhibition at the Alabama Contemporary Art Center in Mobile, Alabama. This will help enhance Texas A&M University-Corpus Christi recognition.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$2,499
Capital Expenditures	\$0
Total	\$2,499

Entry: 33

Title: "No Visitors Allowed: Patient, Family, and Provider Communication during a Public Health Emergency"

Description: Restrictive hospital visiting policies have become common during the current severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) pandemic. News reports of dismayed family members leaving their family members at the doors of the emergency department and heart-wrenching stories of providers sharing a patient's last moments with family members through video conferencing programs abound. Limiting visitors changes how providers communicate with families and caregivers when they are no longer at the bedside. In addition to visitor restriction, the current pandemic has resulted in multiple significant changes to existing in-hospital provider/provider and provider/patient communication patterns. Personal protective equipment (PPE) may make it difficult for others to identify the provider and their role (e.g. nurse, physician, respiratory therapist, phlebotomist, nursing assistant). Hospital units have been rearranged to accommodate the need to have dedicated isolation units. Enhanced patient isolation practices may include reduced entry into the patient's room to conserve limited PPE equipment and to avoid multiple exposures. This has resulted in the use of in-hospital "tele-quarantine" – where the patient communicates with a provider outside the door via an iPad equipped with teleconferencing software. Additional reports from caregivers in SARS-CoV-2 wards include the use of baby monitors and home security cameras to observe patients without entering the room.

Purpose/Intent: Research is needed to understand how changes in communication methods and patterns during the ongoing SARS-CoV-2 pandemic influence patient safety and quality care for hospitalized patients. This will include an extensive literature review to identify methods of provider/provider and provider/patient or family communication used during previous public health emergencies and the current severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) pandemic.

Benefit for the State or Institution: This review will guide future research and development of patient-centered policies, procedures, and tools that guide interventions supporting communication between patients, families, caregivers, and providers during public health emergencies, such as the current pandemic, and the predicted ongoing need to prepare for and respond to the outbreaks of contagious diseases. The scoping review will result in a peer reviewed article and form the foundation for a research proposal for submission for internal and external research funding.

Salaries/Wages for New or Reassigned FTEs	\$936
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,528
Capital Expenditures	\$0
Total	\$2,464

Entry: 34

Title: The experience of nurses attending graduate school during COVID-19

Description: This study will investigate the human experience of working nurses attending graduate school during the COVID-19 pandemic. There has been unprecedented uncertainty involved in the COVID-19 pandemic. For nurses, working while attending graduate school can be challenging due to varied scheduling and working overnight. In the midst of the COVID-19 pandemic, nurses working while attending graduate school are now facing additional unique challenges including working extended hours while also home-schooling young children and managing a family life. The situation is compounded by exposure possibilities and self-quarantine consequences, which may force some nurses to seek alternative places to live during quarantine. Attrition in master's level nursing education has been documented to be high. Many nurses decide to withdraw from graduate school due to work-life-school balance issues. Amid COVID-19, these factors are compounded. The experiences of these students will be explored and interpreted using hermeneutic phenomenology open ended interview.

Purpose/Intent: The purpose of this project is to examine the human experience of working nurses attending graduate school during the COVID-19 pandemic. This pandemic has had educational repercussions. Understanding the contemporaneous accounts of working nurses (health professionals) is therefore important to the Division of Research and Innovation mission in planning future educational interventions as we navigate the COVID-19 pandemic and for future similar situations (natural disasters, pandemics, etc.). Retention of working nurses in graduate programs is societally important, secondary to the nursing shortage, but also to the call by the Institute of Medicine for nurses to attain higher education.

Benefit for the State or Institution: Understanding these contemporaneous accounts and experiences will develop insight for nurse educators to plan pedagogical strategies that may enhance student success and program completion while also maintaining pedagogical rigor in uncertain circumstances, such as a pandemic. The results of this study will be presented and published in a discipline specific arena.

Salaries/Wages for New or Reassigned FTEs	\$2,000
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$325
Capital Expenditures	\$0
Total	\$2,325

Entry: 35

Title: "COVID-19 Economic Impacts in the South Texas Coastal Bend"

Description: The objective of this study is to assist Coastal Bend small town communities in understanding, assessing, and addressing economic impacts from COVID-19. Small town and rural communities lack capacity to gather and assess data in a systematic way that can then be used to demonstrate need. This is a critical point, because without comparable and documented data, these communities are less competitive in pursuing federal, state, and philanthropic grants and other funding support. The aim of the study is to systematically assess municipal and business impacts in four rural Coastal Bend counties: Aransas, Bee, Refugio, and San Patricio.

Purpose/Intent: The goals of the study are to: 1) identify economic impacts to small business in rural communities; 2) assess readiness to re-open; 3) assess economic impacts to municipalities in rural counties; 4) document impacts and match outstanding need to COVID-19 or other funding opportunities in a tailored strategy for communities; and 5) assess potential for regional-scale projects for funding across the four counties.

Benefit for the State or Institution: The expected significance of this study is to gather and serve timely information and data to local officials, local chambers of commerce, and other partners as they seek financial assistance due to COVID-19 economic impacts. This not only serves the Division of Research and Innovation mission of societal benefit, it also promotes Texas A&M University-Corpus Christi as a trusted partner working with communities to build resilience. Notably, this fits squarely within the recent MOU signed by Texas A&M University-Corpus Christi and the Coastal Bend Council of Governments to develop a Regional Resilience Partnership.

Salaries/Wages for New or Reassigned FTEs	\$1,155
Salaries/Wages for Existing FTEs	\$1,204
Operating Expenses	\$241
Capital Expenditures	\$0
Total	\$2,600

Texas A&M University-Galveston

Entry: 1

Title: Gulf Center for Sea Turtle Research (Dr. Christopher Marshall)

Description: Gulf Center for Sea Turtle Research partial operational support.

Purpose/Intent: To provide support for the operation of the Gulf Center for Sea Turtle Research.

Benefit for the State or Institution: The center will allow sea turtle biologists in the region to organize and speak with one voice to attract attention and funding for sea turtle research and conservation priorities. The center will seek to create collaborative relationships with other sea turtle researchers and research entities across the Gulf of Mexico.

Salaries/Wages for New or Reassigned FTEs	\$35,365
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$7,381
Capital Expenditures	\$4,018
Total	\$46,764

Entry: 2

Title: Start-up funds (Dr. Ana Sirovic)

Description: Start-up funding for new Marine Biology professor.

Purpose/Intent: Research and advancement.

Benefit for the State or Institution: The funds have been used to support original research that focuses on cetacean and fish acoustics, cetacean ecology, ocean noise, and the effect of anthropogenic noise. A portion of the funds were used to support graduate students. The students not only support research but also gain invaluable technical and research experience.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$38,493
Operating Expenses	\$19,254
Capital Expenditures	\$13,720
Total	\$71,467

Entry: 3

Title: Start-up funds (Dr. Laura Jurgens)

Description: Start-up funding for new Marine Biology professor.

Purpose/Intent: Research and advancement.

Benefit for the State or Institution: The funds have been used to support original research that focuses on community and ecosystem resilience in coastal oceans and estuaries, including climate variability, extreme events, and species invasions. A portion of the funds were used to support graduate students. The students not only support the research but also gain invaluable technical and research experience.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$45,936
Operating Expenses	\$9,037
Capital Expenditures	\$0
Total	\$54,973

Entry: 4

Title: Project development (Dr. Ayal Anis)

Description: Research collaboration with University of the Aegean, Greece, to develop a model system for the study of coastal circulation and the functioning of bays and gulfs.

Purpose/Intent: Develop a model system for the study of coastal circulation and the functioning of bays and gulfs. Secondly, develop a parallel research proposal to study deep-ocean mixing processes.

Benefit for the State or Institution: The collection of the rich datasets will constitute the basis for development of a larger collaborative project focusing on bays of different morphologies. The project is expected to lead to: (1) development of new lines of research; (2) exposure of graduate and undergraduate students to new international research venues and high impact learning opportunities in marine sciences and oceanography.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,117
Capital Expenditures	\$0
Total	\$1,117

Entry: 5

Title: Project development (Dr. Timothy Dellapenna)

Description: Support field collection of sediment cores and the analyses of these age-dated cores for environmental DNA to determine shifts in microbial and macrofaunal communities over time.

Purpose/Intent: The development of environmental proxies from the sediment record within the back reef of the Mesoamerican Reef to assess the anthropogenic impact on ecosystem health due to anthropogenic impacts.

Benefit for the State or Institution: The preliminary data obtained will be used for research development, particularly with an NSF proposal.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,145
Capital Expenditures	\$0
Total	\$1,145

Entry: 6

Title: Support of a pilot study (Dr. Karl Kaiser and Dr. Jhenny Galan)

Description: Linking molecular survivors of Earth's biogeochemical cycle to optical properties through quantum mechanical calculations.

Purpose/Intent: Collection of samples, extraction and separation of organic compounds, and analyses of structures, along with the calculation of theoretical absorption spectra.

Benefit for the State or Institution: The data obtained will be used for research development, as the work performed bridges open questions about the marine carbon cycle and the origin of color in the ocean. The development of an NSF proposal is planned.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$182
Capital Expenditures	\$0
Total	\$182

Entry: 7

Title: Postdoctoral, graduate student, and undergraduate research support (Dr. Peter Santschi)

Description: Training in research techniques and manuscript writing.

Purpose/Intent: Training in polycyclic aromatic hydrocarbons. Oil analysis on the liquid chromatography with tandem mass spectrometry (LC-MS-MS) is a powerful analytical technique that combines the separating power of liquid chromatography with the highly sensitive and selective mass analysis capability of triple quadrupole mass spectrometry.

Benefit for the State or Institution: Training postdoctoral, graduate, and undergraduate students the developed techniques of oil analysis on the LC-MS-MS would benefit them with invaluable research and technical experience.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,293
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$1,293

Entry: 8

Title: Project development (Dr. Hui Liu)

Description: Support to collect samples for research preliminary data.

Purpose/Intent: To collect samples to expand the time series, in order to understand the biophysical processes that regulate the biomass and distribution of marine populations. Owing to the key role of zooplankton in the growth and survival of larval fish, changes in their species composition and abundance have significant implications to fisheries production and ecosystem dynamics.

Benefit for the State or Institution: The data obtained will be expand the time series, which is valuable for seeking external funds. The development of an NSF proposal is planned.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$22
Capital Expenditures	\$0
Total	\$22

Entry: 9

Title: Project development (Dr. Maria Pia Miglietta and Dr. David Hala)

Description: Support to expand the scope of a current internally funded project.

Purpose/Intent: To use toxicological and novel bioinformatics approaches to identify diagnostic effects of jellyfish toxins on fish health and physiology, and to investigate the effect of toxins from an additional jellyfish species in the Gulf of Mexico.

Benefit for the State or Institution: Preliminary data generated on stress responses of fish will help the researchers to generate valuable preliminary data to pursue competitive proposals suited for NSF, NIEHS, and the Texas Sea Grant.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$186
Capital Expenditures	\$0
Total	\$186

Entry: 10

Title: Project development (Dr. Carol Bunch-Davis)

Description: Support to investigate how Galveston's African American citizens used local institutions to refute Jim Crow segregation's constraints on their daily lived experiences.

Purpose/Intent: To discover how the local institution facilitated social networks that resisted segregation's impact and to analyze these networks using the artifacts and ephemera stored at local institutions; to discover how they mirror or diverge from the experiences of other African American communities around the state and the nation.

Benefit for the State or Institution: The pilot project's focus on an interpretative plan and conservation work will strengthen planned applications for three externally funded proposals.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$3,791
Capital Expenditures	\$0
Total	\$3,791

Entry: 11

Title: Project development (Dr. Olbelina Ulloa)

Description: Support to investigate new metal compounds as potential catalysts for the production of hydrogen gas from water or acids in organic solvents. The compounds will also be tested for potential uptake of carbon dioxide and its reduction to formate ions.

Purpose/Intent: To probe the catalytic activity of new metal compounds in the production of hydrogen gas and the uptake of carbon dioxide for its reduction to formate ions.

Benefit for the State or Institution: The data acquired will allow us to apply for funds to build libraries of our catalysts under various conditions for high-throughput screenings (screening hundreds of conditions). These screenings would be employed to optimize for robustness, speed, and yields of hydrogen production and carbon dioxide reduction. The transformations we look to optimize are vital to lower carbon dioxide emissions and increase its removal from our atmosphere.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$2,271
Capital Expenditures	\$0
Total	\$2,271

Entry: 12

Title: Elemental Scientific MicroMill Laser (Dr. Christopher Marshall)

Description: Replacement of an Elemental Scientific MicroMill Laser

Purpose/Intent: The Elemental Scientific MicroMill Laser is used to conduct stable isotope and biotracer analyses. A micromill is a hybrid between a small drill and a microscope; the movement of the drill bit is computer controlled and programmable. The equipment allows precise micro and submicron sampling from hard structures.

Benefit for the State or Institution: The equipment will allow laboratories to expand research to new species and answer new questions regarding foraging and movement ecology of sea turtles; continue biotracer work; and even expand processing capacity. The equipment will allow current research to continue on a variety of marine vertebrates that supports scholarly productivity and supports graduate students.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$41,000
Total	\$41,000

Entry: 13

Title: Graduate assistant research support

Description: Salaries paid to graduate research assistants working at Texas A&M University-Galveston in the Department of Marine Biology.

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	\$74,768
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$74,768

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 conducts research and provides service support to the multimillion-dollar Texas citrus industry. The center also provides hands-on academic training to graduate students to develop future leaders. It focuses on citrus variety development, pest and disease control, plant physiology, soil science and irrigation technology, plant nutrition, and development of best management practices using both established and innovative 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 now owns and manages extensive acreage in South Texas, which bodes well for the future of the industry. It is propagating large numbers of new trees to expand 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	\$113,639
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$113,639

Entry: 2

Title: Library research acquisitions

Description: The funding provided access to several major online and printed resources for the library.

Purpose/Intent: The purpose of these expenditures was to support research and learning across the curriculum. These expenditures represent e-books and online services. The Freedom Collection (Elsevier [ScienceDirect] e-journals) and the e-book account support all disciplines, while One Petro and ACM Digital Library support programs are of particular interest to engineering.

Benefit for the State or Institution: All these products and services are important resources for students and faculty and are essential for the mission of the university. All of 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	\$14,825
Capital Expenditures	\$175
Total	\$15,000

Entry: 3

Title: Faculty startup funds: College of Arts and Sciences

Description: The funding was used to assist new researchers as well as prioritized college internal research projects within the college.

Purpose/Intent: To provide startup funding for the collection of preliminary data, analysis, and results to help establish research agendas and 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	\$2,341
Operating Expenses	\$27,043
Capital Expenditures	\$0
Total	\$29,384

Entry: 4

Title: Faculty startup funds: College of Education

Description: The funding was used to assist new researchers as well as prioritized college internal research projects within the college.

Purpose/Intent: To provide startup funding for the collection of preliminary data, analysis, and results to help establish research agendas and 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	\$192
Operating Expenses	\$9,578
Capital Expenditures	\$0
Total	\$9,770

Entry: 5

Title: Faculty startup funds: College of Agriculture

Description: The funding was used to assist new researchers as well as prioritized college internal research projects within the college.

Purpose/Intent: To provide startup funding for the collection of preliminary data, analysis, and results to help establish research agendas and 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	\$36,682
Operating Expenses	\$24,694
Capital Expenditures	\$5,688
Total	\$67,064

Entry: 6

Title: Faculty startup funds: College of Business

Description: The funding was used to assist new researchers as well as prioritized college internal research projects within the college.

Purpose/Intent: To provide startup funding for the collection of preliminary data, analysis, and results to help establish research agendas and 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	\$10,010
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$10,010

Entry: 7

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. The funding provides 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 at Texas A&M University-Kingsville.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$12,250
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$12,250

Entry: 8

Title: Office of Sponsored Research operating funds

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

Purpose/Intent: To support the Office of Research and Graduate Studies in their mission to support and advance the university's mission and purpose by ensuring the stewardship of external funds, protecting the researchers' freedom of investigation and reporting, and monitoring compliance with university grants and contract administration policies and procedures, as well as those of the funding source. The Office of Research and Graduate Studies provides comprehensive support & guidance to faculty and researchers at all stages of the development, submission, negotiation, research compliance, award, and closeout phases of externally sponsored projects and research.

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 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	\$68,042
Operating Expenses	\$35,167
Capital Expenditures	\$0
Total	\$103,209

Entry: 9

Title: Research support: Chemistry

Description: The Stanford Clinical Opportunity for Residency Experience Program is a developmental program designed to increase the research competitiveness of faculty and the research base of institutions with a historical mission and/or demonstrated track record of training and graduating students from backgrounds underrepresented in biomedical research. The overall goal of this project is to understand the function of proteins that regulate apoptosis, which will provide novel targets and tools for the design of innovative therapies for the treatment and/or prevention of cancer and other human diseases characterized by deregulated apoptosis.

Purpose/Intent: To provide institutional support necessary for the successful implementation of the proposed activities in the project titled "Structure-Function Analysis of Pro-Apoptotic BMRP and its Role as Tumor Suppressor" along with supporting research assistant.

Benefit for the State or Institution: The results of this project will enhance the possibility of receiving sustained federal support from the National Institute of Health for the research projects of the principal investigator. Additionally, the student involved in the project will be provided research skills that are applicable for future research in academic and industrial settings.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$7,200
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$7,200

Entry: 10

Title: Post-award operation

Description: To support the Office of Research and Graduate Studies involving post-award financial and reporting compliance.

Purpose/Intent: To support the Office of Research and Graduate Studies in their mission to support and advance the university's mission and purpose by ensuring the stewardship of external funds, protecting the researchers' freedom of investigation and reporting, and monitoring compliance with university grants and contract administration policies and procedures, as well as those of the funding source. The Office of Research and Graduate Studies provides comprehensive support and guidance to faculty and researchers at all stages of the development, submission, negotiation, research compliance, award, and closeout phases of externally sponsored projects and research.

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 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	\$227,726
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$227,726

Entry: 11

Title: Research operation

Description: To support the Office of Research and Graduate Studies involving proposal development and research compliance.

Purpose/Intent: To support the Office of Research and Graduate Studies in their mission to support and advance the university's mission and purpose by ensuring the stewardship of external funds, protecting the researchers' freedom of investigation and reporting, and monitoring compliance with university grants and contract administration policies and procedures, as well as those of the funding source. The Office of Research and Graduate Studies provides comprehensive support and guidance to faculty and researchers at all stages of the development, submission, negotiation, research compliance, award, and closeout phases of externally sponsored projects and research.

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 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	\$241,459
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$241,459

Texas A&M University-San Antonio

Entry: 1

Title: Research and scholarship book

Description: Production of publications

Purpose/Intent: The Office of Research and Graduate Studies provides the Research and Scholarship booklet that contains a listing of peer-reviewed journal articles, books, and chapters in books authored and co-authored by Texas A&M University-San Antonio faculty.

Benefit for the State or Institution: The institution has the opportunity of showcasing research to the community.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$367
Capital Expenditures	\$0
Total	\$367

Entry: 2

Title: NCURA meeting, NSF conference, NIH seminar

Description: Employee training

Purpose/Intent: To attend the annual National Council of University Research Administrators (NCURA) meeting and receive information and updates in the areas of research administration, learn to find and administer National Science Foundation (NSF) grants, learn the electronic processes for submitting National Institutes of Health (NIH) grants, and receive information on proposal preparation.

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	\$8,915
Capital Expenditures	\$0
Total	\$8,915

Entry: 3

Title: Veterinarian services

Description: Consultant services

Purpose/Intent: To advise Texas A&M University-San Antonio administration and its Institutional Animal Care and Use Committee on matters concerning laboratory animal care and United States Department of Agriculture, NIH, and Office of Protection from Research Risks regulations.

Benefit for the State or Institution: The institution will remain compliant in matters related to animal research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$4,600
Capital Expenditures	\$0
Total	\$4,600

Texas A&M University-Texarkana

Entry: 1

Title: Summer research support: jury selection

Description: 28 Visa giftcards

Purpose/Intent: Participant honorarium

Benefit for the State or Institution: Undergraduate research, journal publication, and conference presentation.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$350
Capital Expenditures	\$0
Total	\$350

Entry: 2

Title: Discourse analysis of the recently passed House Bill 3 in the Texas Legislature

Description: Training for NVivo 12 Plus software

Purpose/Intent: Faculty training

Benefit for the State or Institution: Faculty research, publication, and presentation.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$100
Capital Expenditures	\$0
Total	\$100

Entry: 3

Title: Creating crystalline hydrogen-bonded metal-organic frameworks

Description: Palladium on activated C 100GR

Purpose/Intent: Hogan

Benefit for the State or Institution: Faculty and undergraduate research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$471
Capital Expenditures	\$0
Total	\$471

Entry: 4

Title: Creating crystalline hydrogen-bonded metal-organic frameworks

Description: Dichlormthane 99+ STAB W 1KML

Purpose/Intent: Hogan

Benefit for the State or Institution: Faculty and undergraduate research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$38
Capital Expenditures	\$0
Total	\$38

Entry: 5

Title: A quantified analogy: message design in risk communication

Description: Qauntitative research survey

Purpose/Intent: Extend survey sample.

Benefit for the State or Institution: Presentation and publication.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$2,970
Capital Expenditures	\$0
Total	\$2,970

Entry: 6

Title: Summer research support: jury selection

Description: Publication

Purpose/Intent: Advertise for participants.

Benefit for the State or Institution: Undergraduate research, journal publication, and conference presentation.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$11
Capital Expenditures	\$0
Total	\$11

Entry: 7

Title: Effects of videogame on improving social and communication skills of children with autism

Description: Publication

Purpose/Intent: Kinesiology

Benefit for the State or Institution: Kinesiology Publication

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$525
Capital Expenditures	\$0
Total	\$525

Entry: 8

Title: Discourse analysis of the recently passed House Bill 3 in the Texas Legislature

Description: NVivo 12 Plus software license

Purpose/Intent: Education

Benefit for the State or Institution: Faculty research, publication, and presentation.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$100
Capital Expenditures	\$800
Total	\$900

Texas Southern University

Entry: 1

Title: Research enhancement and compliance programs

Description: Educational workshops for the research community of TSU on laboratory safety, use of animals, radiation, and biohazardous substances in research; state and federal agency reporting, registrations, and assurance renewals; and research protocol submission, review, and approval processes.

Purpose/Intent: To ensure research compliance with state and federal governing agency guidelines policies and procedures, to showcase research activities at TSU, and 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, and enhances extramural funding opportunities for the university.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$67,105
Operating Expenses	\$18,080
Capital Expenditures	\$7,049
Total	\$92,234

Entry: 2

Title: Animal care facilities and Animal Research Protection Program operations and maintenance

Description: Management and maintenance of research animal care facility supplies, equipment, and infrastructure; and procurement of animals for sentinel testing to ensure that all of the animals that are housed in the facility are healthy and pathogen free.

Purpose/Intent: To ensure that the research animals are cared for in a humane manner and in accordance with Public Health Service policy.

Benefit for the State or Institution: Ensures compliance with state guidelines, policies, and procedures; ensures state employee safety; promotes high-quality research; and better positions the university to conduct state-of-the-art animal research that will enable the increased chances of acquiring extramural funds for the university.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$37,305
Operating Expenses	\$3,345
Capital Expenditures	\$28,791
Total	\$69,441

Texas State University

Entry: 1

Title: Faculty startup

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	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$31,864
Capital Expenditures	\$212,248
Total	\$244,112

Entry: 2

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	\$4,355,574
Operating Expenses	\$1,786
Capital Expenditures	\$0
Total	\$4,357,360

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	\$119,019
Capital Expenditures	\$0
Total	\$119,019

Texas Tech University

Entry: 1

Title: Start-up support

Description: Core Research Support Fund (CRSF) funding assisted approximately 100 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: CRSF funds have been used to facilitate the investigations of researchers such as Dr. Yuan Shen, Assistant Professor in the Department of Civil, Environmental, and Construction Engineering. With the assistance of the funds, Dr. Shen has completed a protein expression, purification, and characterization system in his lab. Through this system, his lab can make bioinspired protein-based materials for energy and environmental applications. He has initiated several projects on bioinspired protein-based materials to recycle rare earth elements from end-of-life technology and waste. Additionally, he has applied for several related funding opportunities including DE-FOA-0002336 (turning waste into a resource: recovery of water, minerals, and precious metals from produced water using hybrid membrane distillation-crystallization and extraction) and DE-FOA-0002364 (carbon ore, rare earth, and critical minerals initiative for U.S. Basins). Dr. Shen has also completed a Schlenk Line vacuum gas manifold system, which is used for organic synthesis. His lab can use this system to synthesize bioinspired small molecule-based separation materials.

Salaries/Wages for New or Reassigned FTEs	\$878,798
Salaries/Wages for Existing FTEs	\$1,149,089
Operating Expenses	\$14,961
Capital Expenditures	\$0
Total	\$2,042,848

Entry: 2

Title: Salary support (non-startup)

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 50 faculty members' salary was partially paid from Core Research Support Fund funds.

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

Benefit for the State or Institution: CRSF funds allow Texas Tech to retain exceptional researchers. By using CRSF 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	\$7,457,903
Operating Expenses	\$11,522
Capital Expenditures	\$91,773
Total	\$7,561,198

Entry: 3

Title: Center & institute support

Description: Support for multiple centers and institutes including the National Wind Institute, Animal Care Services, the Neuroimaging Center, the Center for Pulsed Power and Power Electronics (P3E Center), the Nano Tech Center, the Institute of Environment & Human Health, and the TechMRT Center.

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

Benefit for the State or Institution: The Plasma, Power Electronics, and Pulsed Power Group at Texas Tech is comprised of eight faculty members with a wide range of expertise rooted in electrical and computer engineering, mechanical engineering, and physics, and an average of 20 graduate students and 10 undergraduate student assistants. The clerical and technical support staff is comprised of one to two research engineers, one machinist, three technicians, one business manager, and one buyer. With an annual research budget of \$3-4 million, the P3E Center is one of the largest federally funded graduate research labs in the South Plains. The center's research covers a wide range of topics, from materials research of energetic materials over electric breakdown in DOE-relevant structures to wide bandgap semiconductor development and applications.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,184,431
Operating Expenses	\$309,892
Capital Expenditures	\$0
Total	\$1,494,323

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 assist faculty in meeting the requirements of certain awards.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$509,906
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$509,906

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	\$32,705
Operating Expenses	\$421
Capital Expenditures	\$0
Total	\$33,126

Entry: 2

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 several departments including Biology, Communication Sciences and Disorders, Kinesiology, Mathematics and Computer Science, Nursing, Nutrition and Food Sciences, Psychology and Philosophy, Physical Therapy, and Occupational Therapy 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	\$62,137
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$62,137

The University of Texas at Arlington

Entry: 1

Title: Faculty salary support

Description: Salaries paid to faculty working at UT Arlington, including those in 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	\$5,585,914
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$5,585,914

Entry: 2

Title: Graduate research assistant salaries

Description: Salaries paid to Graduate research assistants working at UT Arlington, including those in 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	\$318,001
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$318,001

Entry: 3

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	\$853,329
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$853,329

The University of Texas at Dallas

Entry: 1

Title: Research development – School of 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 develop techniques for the brain, as well as develop 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 it will reduce burdens upon social service agencies.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,560,652
Operating Expenses	\$10
Capital Expenditures	\$0
Total	\$1,560,652

Entry: 2

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. They are also 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	\$563,115
Operating Expenses	\$25,519
Capital Expenditures	\$48,215
Total	\$636,849

Entry: 3

Title: Research development – School of 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 & Policy Sciences programs provide an education that allows the student to understand social phenomena from an economics perspective and provides 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	\$143,630
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$143,630

Entry: 4

Title: Research development – Erik Jonsson School of Engineering and Computer Science

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

Purpose/Intent: The School of Engineering and 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; and wireless communications engineering.

Benefit for the State or Institution: The School of Engineering and 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	\$1,208,004
Operating Expenses	\$25,357
Capital Expenditures	\$0
Total	\$1,233,361

Entry: 5

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 Mathematics.

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 Mathematics 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	\$950,979
Operating Expenses	\$423,846
Capital Expenditures	\$109,305
Total	\$1,484,130

Entry: 6

Title: Research development - Office of the Vice President for 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	\$3,521,755
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$3,521,755

The University of Texas at El Paso

Entry: 1

Title: Grant cost shares

Description: Cost share for major sponsored projects.

Purpose/Intent: Collaborative for Research Education (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 Institutes 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 their grants, 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	\$350,609
Salaries/Wages for Existing FTEs	\$26,262
Operating Expenses	\$8,872
Capital Expenditures	\$0
Total	\$385,743

Entry: 2

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	\$55,506
Operating Expenses	\$4,534
Capital Expenditures	\$0
Total	\$60,040

Entry: 3

Title: Office of Technology Commercialization (OTC)

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 are also 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	\$154,745
Operating Expenses	\$23,349
Capital Expenditures	\$0
Total	\$178,094

Entry: 4

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	\$47,668
Salaries/Wages for Existing FTEs	\$1,181,159
Operating Expenses	\$84,251
Capital Expenditures	\$90,202
Total	\$1,403,280

Entry: 5

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 that 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	\$0
Capital Expenditures	\$20,377
Total	\$20,377

Entry: 6

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, postdocs, laboratory technicians, and 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	\$2,001,374
Salaries/Wages for Existing FTEs	\$1,504,278
Operating Expenses	\$235,835
Capital Expenditures	\$27,857
Total	\$3,769,344

Entry: 7

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, postdocs, research technicians, laboratory assistants, capital expenditures, and operating expenses required to operate and maintain laboratories for the purposes 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	\$1,055,067
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$41,526
Capital Expenditures	\$0
Total	\$1,096,593

Entry: 8

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	\$72,000
Salaries/Wages for Existing FTEs	\$33,333
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$105,333

Entry: 9

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 (URI) provides funding assistance to those full-time individuals who 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 purchases, and in some cases student research assistant support.

Salaries/Wages for New or Reassigned FTEs	\$11,752
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$45,932
Capital Expenditures	\$0
Total	\$57,684

Entry: 10

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	\$19,986
Salaries/Wages for Existing FTEs	\$232,964
Operating Expenses	\$116,037
Capital Expenditures	\$2,500
Total	\$371,487

The University of Texas Permian Basin

Entry: 1

Title: RDF student research

Description: Graduate studies.

Purpose/Intent: A Graduate research assistant serves as an assistant to one or two assigned professors. Duties typically consist of assistance with research projects attributed to the grants or contracts from where funding is received. A graduate research assistant assists with departmental or interdepartmental research.

Benefit for the State or Institution: It introduces graduate students currently studying for master's degrees to effective research practices and to accurate and coherent communication of procedures and results.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$6,492
Capital Expenditures	\$0
Total	\$6,492

Entry: 2

Title: Provost Research Fund

Description: This discretionary fund of the provost supports faculty research and creative activities, including providing matching funds for grant opportunities, equipment, travel, etc.

Purpose/Intent: The fund enables faculty to conduct research and creative activity, thus advancing the mission of the university.

Benefit for the State or Institution: The funds support the mission of the university, which serves the region and state. In addition, the funding not only allows faculty to perform their required duties (research and creative activities), but its availability also serves as an important faculty retention tool.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,365
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$1,365

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 (E&G) 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 and educational and other community organizations 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	\$507,577
Salaries/Wages for Existing FTEs	\$24,000
Operating Expenses	\$302,699
Capital Expenditures	\$3,800
Total	\$838,076

The University of Texas at San Antonio

Entry: 1

Title: Science faculty research support

Description: Funding provided to College of Sciences to support research-intensive faculty.

Purpose/Intent: The purpose is to support active research faculty and increase external research awards.

Benefit for the State or Institution: Benefit is to retain existing outstanding researcher faculty who are aligned to research strategic goals of the institution.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$1,731,041
Operating Expenses	\$37,240
Capital Expenditures	\$0
Total	\$1,768,281

Entry: 2

Title: Seed grants

Description: The seed grant program is 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: Seed grants enhance scholarly and creative activities and encourage collaboration in pursuit of large-scale, federal funding opportunities.

Salaries/Wages for New or Reassigned FTEs	\$331,272
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$114,900
Capital Expenditures	\$5,140
Total	\$451,312

Entry: 3

Title: Research core facilities

Description: Funding allocated to purchase research equipment and provide support of research core facilities.

Purpose/Intent: The purpose is to maintain highly specialized equipment and expand our research capabilities by acquiring new research instrumentation and maintaining existing equipment.

Benefit for the State or Institution: This investment helps UTSA build research capacity to attract top-tier research faculty and be more competitive for extramural funding. Strong core facilities also enhance research collaboration across disciplines and with other institutions and industry partners.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$326,638
Operating Expenses	\$345,443
Capital Expenditures	\$94,550
Total	\$766,631

Entry: 4

Title: Postdocs

Description: Support for postdoctoral employees (postdocs) engaged in mentored research activities.

Purpose/Intent: This program allows faculty to mentor and train highly skilled researcher staff to acquire necessary skills that enhance their scientific and technical abilities.

Benefit for the State or Institution: This program is beneficial as postdocs enrich UTSA's research enterprise and bolster its academic environment and reputation.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$135,542
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$135,542

Entry: 5

Title: Laboratory Animal Resources Centers (LARC)

Description: Funding provided to support LARC staff salaries.

Purpose/Intent: The LARC provides quality, cost-effective research animal resources. They also provide veterinary and personnel training and expertise in laboratory animal technology and medicine.

Benefit for the State or Institution: Supporting this program is beneficial to ensure faculty receive the support they need to conduct animal research that complies with American Association for Accreditation of Laboratory Animal Care accreditation standards. This accreditation demonstrates UTSA's commitment to responsible animal care and use.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$456,844
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$456,844

Entry: 6

Title: Lab safety

Description: Support for lab safety staff salaries, supplies, and chemical inventory program.

Purpose/Intent: The purpose is to provide adequate staff and resources to UTSA researchers in navigating research compliance.

Benefit for the State or Institution: Supporting lab safety is crucial to creating a strong lab safety culture across campus and ensuring our students can experience research in a safe environment.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$314,108
Operating Expenses	\$63,664
Capital Expenditures	\$0
Total	\$377,772

Entry: 7

Title: Proposal development

Description: Funding provided for staff salaries and proposal development and reviews.

Purpose/Intent: This program funds several grant development staff and reviewer initiatives to assist faculty in the development and submission of proposals.

Benefit for the State or Institution: This investment ensures UTSA submits proposals of the highest quality to increase its success rate. UTSA's awards have increased dramatically as a result of this investment.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$185,848
Operating Expenses	\$92,992
Capital Expenditures	\$0
Total	\$278,840

Entry: 8

Title: Research development and support

Description: Funding allocated to support various research initiatives.

Purpose/Intent: The 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	\$147,035
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$46,387
Capital Expenditures	\$0
Total	\$193,422

Entry: 9

Title: Research center development

Description: Strategic investments in multiple research centers, such as the Institute for Cyber Security, the Artificial Intelligence Institute, and the Cybersecurity Manufacturing Innovation Institute.

Purpose/Intent: The purpose is to provide institutional support and seed funding to enhance their research capabilities.

Benefit for the State or Institution: This program is beneficial as teams of multidisciplinary researchers are becoming increasingly successful in securing external funding. These institutes address specific societal needs and will pursue collaborative activities that benefit society.

Salaries/Wages for New or Reassigned FTEs	\$15,000
Salaries/Wages for Existing FTEs	\$259,344
Operating Expenses	\$252,064
Capital Expenditures	\$0
Total	\$526,408

The University of Texas at Tyler

Entry: 1

Title: Texas Comprehensive Research Fund Annual Report

Description: Salaries and wages for new or reassigned FTEs.

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	\$40,852
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$43,442
Capital Expenditures	\$0
Total	\$84,294

University of Houston

Entry: 1

Title: Faculty research startup packages

Description: Support for newly hired faculty who are within their first two to three years at UH.

Purpose/Intent: New equipment and consumables to set up research operations of new faculty, postdoctoral fellows, technicians, graduate students, or other researchers.

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	\$0
Salaries/Wages for Existing FTEs	\$228,485
Operating Expenses	\$147,599
Capital Expenditures	\$301,415
Total	\$677,499

Entry: 2

Title: Other research investments

Description: Institute support, cost sharing, equipment, or other matched research investments.

Purpose/Intent: Support for a research institute, cost sharing equipment purchases, and matching opportunities to strengthen the UH research core.

Benefit for the State or Institution: Cost sharing projects assist researchers in meeting grant requirements and demonstrate 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	\$0
Salaries/Wages for Existing FTEs	\$445,655
Operating Expenses	\$41,063
Capital Expenditures	\$0
Total	\$486,718

Entry: 3

Title: Research support

Description: Support for the central research infrastructure (ACO, OCG, RIO and EHS).

Purpose/Intent: Support for the offices of Animal Care Operations (ACO), Contracts and Grants (OCG), Research Integrity and Oversight (RIO), and Environmental Health & Life Safety (EHS).

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	\$0
Salaries/Wages for Existing FTEs	\$3,211,464
Operating Expenses	\$348,696
Capital Expenditures	\$0
Total	\$3,560,160

Entry: 4

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
Total	\$4,382,321

University of Houston-Clear Lake

Entry: 1

Title: Provost main research development

Description: Funds to provide additional faculty research support.

Purpose/Intent: Funds are used to provide additional support to UH System faculty researchers in order to achieve goals and objectives set forth in their research awards, both internal and external. Research fields include, but are not limited to, environmental science, chemistry, geology, biology, psychology, and education.

Benefit for the State or Institution: These funds allow faculty to engage in preliminary research that can be used for further proposals for internal and external research funding.

Salaries/Wages for New or Reassigned FTEs	\$26,548
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$26,548

Entry: 2

Title: Environmental Insitute of Houston 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: This seed research can lead to internal and external proposals for additional research funding.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$14,960
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$14,960

Entry: 3

Title: Office of Sponsored Programs (OSP) research development

Description: Proposal support

Purpose/Intent: Funds are used for OSP staff to be current with latest research opportunities to support UHCL research faculty.

Benefit for the State or Institution: These funds allow OSP staff to help faculty get external funding for research.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$7,460
Capital Expenditures	\$0
Total	\$7,460

Entry: 4

Title: Finding an optimal ordering of 3D brain imaging data to 1D for better participant classification

Description: The use of MRI to better understand different brain conditions.

Purpose/Intent: This project proposes to find an optimal space-filling curve ordering for fMRI data in order to improve participant classification.

Benefit for the State or Institution: If an approximation of the optimal 1D space-filling curve, which can trace the 3D MRI brain, can be found, even a suboptimal approximation, as proposed in this project, it will greatly enhance the features extracted from the MRI data, and it will lead to better classification of participants with different brain conditions, including, but not limited to, cocaine dependence.

Salaries/Wages for New or Reassigned FTEs	\$4,000
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$4,000

Entry: 5

Title: The dynamic team orienteering problem

Description: Optimization of routing problems like bus routing.

Purpose/Intent: The goal is to determine a set of vehicle routes, each constrained by a time duration T_{max} , that maximizes the total profit collected over a planning horizon.

Benefit for the State or Institution: This study introduces a new problem, namely the dynamic team orienteering problem, which is a combinatorial optimization problem. This problem arises in several practical applications such as disaster relief, technician, tourist, and school bus routing problems.

Salaries/Wages for New or Reassigned FTEs	\$1,456
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$1,456

Entry: 6

Title: "Bilingual Education Candidates Failing the Bilingual Target Language Proficiency Test: Examining Reasons Beyond Language Proficiency Requirements"

Description: The case study will gather data from quantitative information generated by bilingual education candidates' scores both with the Avant Spanish Heritage Language (Avant SHL) Test and Bilingual Target Language Proficiency Test (BTLPT) as well as by a questionnaire.

Purpose/Intent: This study aims to explore challenges in passing the BTLPT by bilingual education candidates (BECs) who have demonstrated a high level of Spanish proficiency as measured by the Avant SHL Test.

Benefit for the State or Institution: Ultimately, results from this study will help the UHCL educator preparation program and other programs across Texas make decisions on how to better help BECs become bilingual certified teachers.

Salaries/Wages for New or Reassigned FTEs	\$1,243
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$1,243

Entry: 7

Title: "Environmental Education Curriculum as a Model for Increasing the Mastery and Self-Efficacy of Teacher Candidates in Technology Integration Strategies and Development of Integrated Lessons/Activities"

Description: Increase technology integration strategies in environmental education (EE) curriculum.

Purpose/Intent: The purpose of this study will be to examine teacher candidates' perceptions of EE curriculum as a model for obtaining mastery and improving self-efficacy in technology integration strategies and creation of integrated content in lesson activity development. The purpose of this study will be to examine the teacher candidates' perceptions of EE curriculum as a model for obtaining mastery and improving self-efficacy in technology integration strategies and the creation of integrated content in lesson activity development.

Benefit for the State or Institution: Successful exposure to integrated curriculum and instructional technologies during teacher preparation can positively influence the knowledge, skills, and dispositions of teacher candidates and prepare them to make informed decisions in the classroom.

Salaries/Wages for New or Reassigned FTEs	\$900
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$900

Entry: 8

Title: "The Skaff Family Arab American Archive: Communities, Traditions, and Institutions on the Gulf Coast and in Houston"

Description: Create digital archives of the Skaff Family Arab American Archive

Purpose/Intent: The Skaff Family Arab American Archive, now housed on the UHCL campus, will be processed and become a part of the larger Houston Public Library's Houston Metropolitan Research Center.

Benefit for the State or Institution: This is the largest known single archive of Arab American history in existence, and its contents are unique and will likely influence the way Arab American history is written about and conceptualized in the future.

Salaries/Wages for New or Reassigned FTEs	\$3,409
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$3,409

Entry: 9

Title: *Reflections on Time: Humanities within Bars*

Description: Produce a book written by prisoners reflecting on their time behind bars.

Purpose/Intent: This project is to edit a volume of UHCL incarcerated graduate students' memoir-styled essays in which they critically reflect on their gains made since incarceration, especially in light of their educational journey through achieving a graduate degree in the humanities.

Benefit for the State or Institution: While books by and about prisons and prisoners proliferate the market, a book written by incarcerated and university-educated students is rare, if not altogether absent. UHCL incarcerated students will have a voice in representing their own stories and crafting the research agendas around rehabilitation and redemption.

Salaries/Wages for New or Reassigned FTEs	\$4,800
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$4,800

Entry: 10

Title: "Employer Expectations of Written Communication Abilities in UHCL's Top Major-Professions: Education, Accounting, Psychology, and Healthcare Administration"

Description: Define and describe common workplace writing requirements for new hires.

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	\$2,979
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$2,979

Entry: 11

Title: "Development and Validation of a Rowing Ergometry Virtual Reality Software Interface to Improve Exercise Performance and Enjoyment"

Description: The development of virtual reality (VR) software interface to increase time of exercise and enjoyment.

Purpose/Intent: This project will develop a VR software program that is fully interactive and immersive and will test its ability to elicit greater exercise intensity from a group of healthy volunteers.

Benefit for the State or Institution: Current physical activity recommendations are that children and adults should engage in at least 150 minutes of moderate intensity or about 90 minutes of vigorous intensity exercise per week; data indicate that approximately 80% of Americans do not meet this minimum guideline. This project has demonstrated that screen-based virtual environments increase exercise duration in novice runners during intense treadmill exercise.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$894
Capital Expenditures	\$0
Total	\$894

Entry: 12

Title: "Perceptions of the Implementation and Sustainability of Professional Learning Communities on School Campuses Among District and School Administrators"

Description: Study how school and district administrators perceive the value of professional learning communities in their districts.

Purpose/Intent: The purpose of this study will be to examine the perceptions of central office personnel and school administrators pertaining to the fidelity of the professional learning communities implemented on school campuses contained in the district.

Benefit for the State or Institution: Professional learning communities provide schools with a systematic method to improve students' academic performance by addressing areas for the professional growth of educational personnel.

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

Entry: 13

Title: "Identifying Plant Growth Promoting Rhizobacteria by Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry"

Description: Increase food production by using matrix-assisted laser desorption ionization time-of-flight (MALDI-TOF) systems to identify plant growth promoting rhizobacteria faster.

Purpose/Intent: In preliminary work, this project compared protein spectra to rRNA gene sequences for two libraries of rhizobacteria. Many strains that differed significantly, in terms of protein spectra, appeared highly similar in terms of rRNA gene sequences and traits.

Benefit for the State or Institution: Plant growth promoting rhizobacteria (PGPR) can increase the yield and sustainability of row agriculture and help humankind avert wide spread famine. Development of effective microbial products from PGPR will require screening of millions of isolates. MALDI-TOF systems can identify bacteria for pennies an isolate, at a throughput of hundreds an hour, by matching spectra to reference databases.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$1,880
Capital Expenditures	\$0
Total	\$1,880

Entry: 14

Title: "Investigating Age-Associated Defects Related to Cellular pH"

Description: Reduce aging, and age related illnesses, by reducing age-related defects in cells caused by loss of vacuolar acidity.

Purpose/Intent: This research focuses on an acidic organelle known as the vacuole, which is responsible for recycling biological molecules. The acidity that is required for the function of the vacuole is lost during aging. By studying yeast mutants that model loss of vacuolar acidity, this study will seek to identify interventions that can restore acidity in the vacuole.

Benefit for the State or Institution: The major diseases and causes of death in developed countries virtually all have aging as the primary risk factor (e.g., heart disease, cancer, Alzheimer's disease, diabetes). Historically, research has focused on treating the individual age-associated diseases. However, treating aging could delay or reduce the onset of all the age-associated diseases simultaneously and be much more beneficial than combating single diseases.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$0
Operating Expenses	\$852
Capital Expenditures	\$0
Total	\$852

University of Houston-Downtown

Entry: 1

Title: Texas Comprehensive Research Fund

Description: Support the University of Houston-Downtown's Office of Research and Sponsored 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 providing post-award support.

Benefit for the State or Institution: The funding provides support for the university's effort to expand its research opportunities, create new funding sources through additional grant funds and indirect cost recovery, as well as provide the proper administration of existing grants. It also ensures adherence to compliance requirements.

Salaries/Wages for New or Reassigned FTEs	\$105,687
Salaries/Wages for Existing FTEs	\$76,746
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$182,433

University of North Texas

Entry: 1

Title: Research support staff

Description: Professional staff assigned to assist and promote research development at the university.

Purpose/Intent: Ensures researchers have a professional support staff available to assist them throughout all aspects of research administration.

Benefit for the State or Institution: Support staff helps researchers identify, obtain, and administer extramural grant funding awards; remain compliant with governmental regulations and reporting; and aid in the promotion and marketing of all research being conducted at the university.

Salaries/Wages for New or Reassigned FTEs	\$28,125
Salaries/Wages for Existing FTEs	\$172,891
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$201,016

Entry: 2

Title: Shared core research facilities

Description: Support for shared research facilities: materials research facility, Center for Agile & Adaptive Additive Manufacturing, high performance computing.

Purpose/Intent: Enables researchers shared access to elite, high-tech research equipment and professional laboratory staff expertise in order to execute their research projects.

Benefit for the State or Institution: University managed and supported shared research facilities allow researchers access to sophisticated research equipment and instruments that would otherwise be unattainable. Shared research facilities are a cost-effective solution that benefits the needs of researchers across a wide range of academic disciplines. Shared 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	\$0
Salaries/Wages for Existing FTEs	\$235,491
Operating Expenses	\$363,140
Capital Expenditures	\$97,638
Total	\$696,269

Entry: 3

Title: Faculty research start-up

Description: Support for newly hired faculty to conduct research within their first two to three years at the university.

Purpose/Intent: Provides new faculty with funding for graduate and undergraduate research assistants, postdoctoral research assistants, and other research lab support staffing.

Benefit for the State or Institution: Increases the volume of research projects being conducted by new faculty researchers, ensures that the scope of research projects are effectively supported, provides students with increased opportunities to work on research projects and further their educational experience, and improves researchers competitiveness in pursuing extramural grant funding.

Salaries/Wages for New or Reassigned FTEs	\$352,534
Salaries/Wages for Existing FTEs	\$295,642
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$648,176

Entry: 4

Title: Institutes of Research Excellence

Description: Support for Institutes of Research Excellence – Advanced Environmental Research Institute, Advanced Materials Manufacturing and Processes Institute, BioDiscovery Institute, & Jim McNatt Institute for Logistics Research.

Purpose/Intent: Institutes of Research Excellence staffing, including professional support staff, faculty researchers, postdoctoral research assistants, and undergraduate and graduate research assistants.

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	\$103,491
Salaries/Wages for Existing FTEs	\$596,394
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$699,885

Entry: 5

Title: Other research support

Description: Support for faculty and student research.

Purpose/Intent: Provides funding to support faculty research for things like lab equipment, faculty researcher retention, and seed projects. Also provides support for student research projects.

Benefit for the State or Institution: Support for faculty researchers enables growth in research activity at the university by making sure they are equipped with the resources needed to continue their research and increase their success in securing extramural grant funding awards. Support for student research projects expands their research opportunities at the university, and it enhances their academic experience to better prepare them for future career success.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$9,990
Operating Expenses	\$7,092
Capital Expenditures	\$0
Total	\$17,082

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 campuswide 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 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	\$12,726
Salaries/Wages for Existing FTEs	\$106,822
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$119,548

Entry: 2

Title: Academic and Research Environmental Health and Safety (AR-EHS)

Description: Salary.

Purpose/Intent: Partially pays for the director's and the export control officer's salary.

Benefit for the State or Institution: AR-EHS supports academic and research programs 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. Administration of the institutional compliance committees, such as Institutional Animal Care and Use Committee, Institutional Review Board, and Institutional Biosafety Committee, as well as the export control function for the institution are housed in AR-EHS.

Salaries/Wages for New or Reassigned FTEs	\$0
Salaries/Wages for Existing FTEs	\$32,966
Operating Expenses	\$0
Capital Expenditures	\$0
Total	\$32,966



This document is available on the Texas Higher Education Coordinating Board website:
<http://highered.texas.gov>.

For more information contact:

Allen Michie, PhD
Academic and Health Affairs
Texas Higher Education Coordinating Board
P.O. Box 12788
Austin, TX 78711
PHONE 512-427-6518
FAX 512-427-6168
allen.michie@highered.texas.gov