

# TEXAS A&M REFERENCE PACKET



## TABLE OF CONTENTS

- ▶ Nov. 5th, Joint Budget Hearing Agenda
- ▶ HAC Testimony, President, Texas A&M University
- ▶ Academic Resource Initiative (**Exceptional Item Request**)
- ▶ Budget Challenges
- ▶ Response to COVID-19 and Ongoing Costs
- ▶ Texas Research University Fund (TRUF)
- ▶ Graduation & Retention Rates (FY19)
- ▶ Fall 2020 Enrollment Profile
- ▶ Rankings and Factoids
- ▶ Economic Impact (2018-19)



## NON-FORMULA ITEMS

- ▶ Texas A&M Cyclotron Institute
- ▶ Texas Sea Grant
- ▶ Texas A&M Colonias Program
- ▶ Texas A&M Energy Resources Program

\*\* REVISION \*\*

**HOUSE OF REPRESENTATIVES  
NOTICE OF PUBLIC HEARING**

COMMITTEE: Appropriations - S/C on Article III  
TIME & DATE: 9:00 AM, Monday, March 1, 2021  
PLACE: E1.030  
CHAIR: Rep. Terry M. Wilson

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The Subcommittee on Article III will meet to hear testimony on House budget recommendations for the following agencies:

- Overview of GAIs, Lamar State Colleges, and TSTC
- Texas A&M University System
- Texas A&M University
- Texas A&M University at Galveston
- Prairie View A&M University
- Tarleton State University
- Texas A&M University - Central Texas
- Texas A&M University - Corpus Christi
- Texas A&M University - Kingsville
- Texas A&M University - San Antonio
- Texas A&M International University
- West Texas A&M University
- Texas A&M University - Commerce
- Texas A&M University - Texarkana
- Texas A&M University System Agencies
- Texas Division of Emergency Management
- Texas A&M AgriLife Research
- Texas A&M AgriLife Extension Service
- Texas A&M Forest Service
- Texas A&M Veterinary Medical Diagnostic Laboratory
- Texas A&M Engineering Experiment Station
- Texas A&M Transportation Institute
- Texas A&M Engineering Extension Service
- Texas School for the Blind and Visually Impaired
- Texas School for the Deaf
- Special Provisions for TSBVI and TSD

Public testimony will be taken and may be limited to three minutes.

Agenda items not considered during this hearing may be carried over to a future schedule.

For those persons who will be testifying, information for in-person witness registration, can be found here:

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<https://mytxlegis.capitol.texas.gov/HWRSPublic/About.aspx>

A live video broadcast of this hearing will be available here:

<https://house.texas.gov/video-audio/>

Instructions related to public access to the meeting location and health and safety protocols for attending this meeting are available here:

<https://house.texas.gov/committees/public-access-house-committee-meetings/>

Texas residents who wish to electronically submit comments related to agenda items on this notice without testifying in person can do so until the hearing is adjourned by visiting:

<https://comments.house.texas.gov/?c=c012>

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See Committee Coordinator for previous versions  
of this notice.

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**NOTICE OF ASSISTANCE AT PUBLIC MEETINGS**

Persons with disabilities who plan to attend this meeting and who may need assistance, such as a sign language interpreter, are requested to contact Stacey Nicchio at (512) 463-0850, 72 hours prior to the meeting so that appropriate arrangements can be made.

- Chairman, members, I am John Junkins, professor of aerospace engineering and interim president of Texas A&M University.
- First, **thank you**.
- Thank you for a very good and solid start with HB 1. It is noticed and appreciated.
- And thank you for what you did in the 86<sup>th</sup> legislative session for Texas A&M. The investment you made in our Institutional Enhancement was a major step forward to address a key issue we face: maintaining excellence in keeping with our student growth that characterizes our land-grant mission.
- Having been at A&M since 1985, I know first-hand the many things we do well, but I also know our challenges.
- COVID-19 has presented challenges, but I am proud of our response. While CARES Act funding helped, it did not cover everything and COVID-19's estimated impact on Texas A&M's campus operations is over \$125 million. In spite of this, we provided students with over 11,000 course offerings, 67% of which were available in-person. And we were able to complete the fall semester on time with no delays or shutdowns.
- But one of our challenges remains continuing to catch up with our student growth. We've added almost 14,000 students since 2013. That's an increase in enrollment of over 27% since 2013, compared to 12.9% for all other 4-year institutions in Texas.
- We used our institutional enhancement money you gave us last session to support the academic mission of our institution and the needs of the state of Texas, specifically in some of the following areas:
  - Our **Student Success Initiative** increased our overall graduation and retention rates across the university, but also for those students considered "at-risk" like first-generation students, and those from low-income households;
  - **Expanding support and access for underrepresented students and first-generation students**, including the establishment of a first-generation center, a help desk for any academic issues, and among others a first-year experience program for all students; and
  - **Strategic targeted faculty hires**, which help reduce class sizes, increase course offerings, and improve graduation rates and time-to-graduation.
- Our **first request** is for the academic general revenue formula to reflect statewide growth.
- Our **second request** is for institutional enhancement (IE) funding. Adjustments to the formula to reflect statewide growth, will not address Texas A&M's decades-long growth. Therefore, we ask for the legislature to continue investing in Texas A&M to fund this growth through

our institutional enhancement (IE) request. This will allow us to hire and retain incredible professors, advisors, and staff that support our students and help fulfill our core academic mission.

- Our **last request** is to enhance the funding rate of the Texas Research University Fund (TRUF). This fund, along with the Governor's University Research Fund (GURI), allows us to compete with other national research universities in recruiting stellar researchers to Texas that generate millions of dollars annually for the state and local economies through Texas A&M's research activity, discoveries and innovations.
- You'll likely hear the President of the University of Texas at Austin also speak on the necessity of institutional enhancement and the Texas Research University Fund being critical to their institution, like it is to ours. For Texas A&M, as a land-grant university, we have a solemn obligation to provide you and your constituents, with solutions to problems facing our state, and we are willing to continue serving in this capacity.
- With that, I would be happy to answer any questions.



# CATCHING UP WITH GROWTH

## FACTS

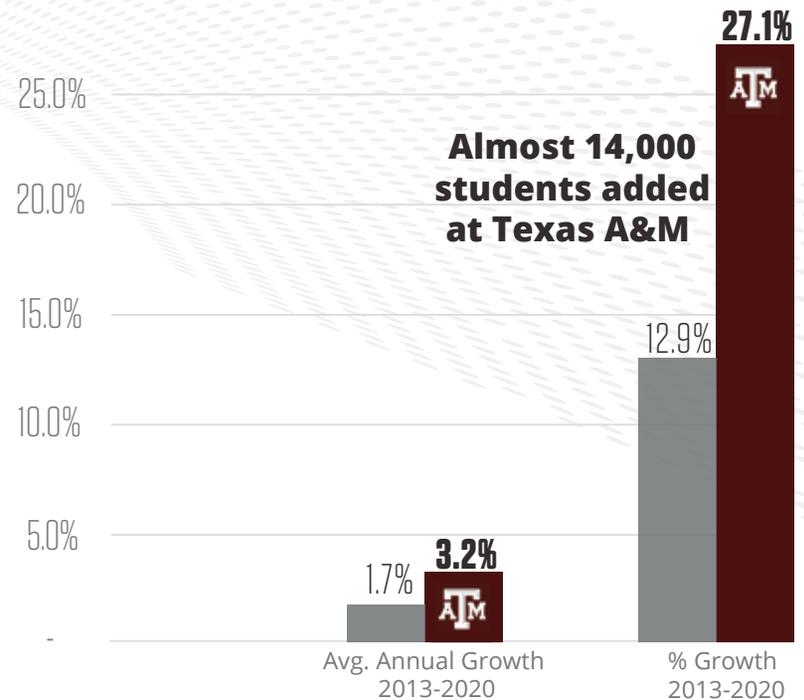
- ▶ **Texas A&M** has added almost 14,000 students since 2013, and must **hire and retain more faculty** to catch up with student growth.
- ▶ **Texas A&M grew enrollment** to meet the needs of the state's growth, and our **student-to-faculty ratio has grown to ~23:1**. A decade ago, our ratio was 20:1.
- ▶ **Texas A&M's** goal of a 19:1 student-to-faculty ratio is near that of our peers.
- ▶ This **scalable request** is mindful of Texas' current financial climate, and is 1/4 of the funding needed to reach our goal by 2025.
- ▶ Our students have told us they expect class sizes similar to other national universities. Of those surveyed, **almost 40%** said large classes contributed to a less than optimal learning environment.

## DID YOU KNOW?

In 2019, 10,000+ **Texas A&M** seniors had jobs at graduation or were admitted to advanced degree programs, and 200+ were commissioned for military service!

## ENROLLMENT GROWTH

● All other Texas Four-Year Institutions ● Texas A&M



## REQUEST

Continue investing in **Texas A&M** to fund our decades-long growth, through our institutional enhancement (IE) request.

# TEXAS A&M BUDGET CHALLENGES



*"Education was my way out, and I will let other students know that it can be their way out too."*  
- Merari Boffill '18, Rio Grande Valley Native and Aggie Teacher

## THANK YOU

The 86th Texas Legislature and the Governor provided **Texas A&M** support for excellent teaching and research which made a **far-reaching difference for our students.**



## CHALLENGES

**Texas A&M's** LAR addresses **some** of the challenges in accommodating growth in order to keep up with the needs of the state. However, we face additional challenges:

**COVID-19:** To date, **COVID-19's estimated impact** on Texas A&M's campus operations is **over \$98 million\***.

**5% reduction:** Recognizing that budget cuts have already impacted operations, any additional cuts to formula funding would have serious ramifications for our students and mission as it is a critical component of maintaining access with affordability.

**Hazlewood:** This unfunded mandate costs Texas A&M over \$28 million annually (and is still growing).

**Enrollment Growth:** The **most daunting challenge** facing Texas A&M is continuing to meet the needs of the state, while trying to catch up and accommodate **enrollment growth.**

## ENROLLMENT GROWTH

- Texas A&M's exceptional item request, an **Academic Resource Initiative** for \$25.7 million for the biennium, will help accommodate for enrollment growth **(+27% and almost 14,000 since 2013).**
- However, there are other ongoing challenges in accommodating growth:
  - ▶ **Higher student-to-faculty ratio** (increased from 20:1 in 2013 to ~23:1 currently);
  - ▶ **Staff per students and staff per faculty**, ranked last among all AAU public institutions and in the SEC;
  - ▶ **Increased counseling** service appointments (up 92% since 2013, currently at 33,000+), while staffing has only increased 22%;
  - ▶ **Maintaining** one of the lowest administrative cost ratios in Texas, the SEC and AAU.
- Our \$250 million TRB project (\$200 million request from the Texas Legislature) for a **Biological and Chemical Science Complex** will help recruit and retain top STEM students and faculty.
- **Texas A&M** has a history of doing more with less. In spite of these challenges, we are **holding to our primary purposes** and Land-Grant mission.

\*Total estimated impact as of November 2020, includes lost revenues (e.g., housing, dining, etc.) and other areas after accounting for CARES Act aid.



# RESPONSE TO COVID-19 AND ONGOING COSTS

In the face of a historic pandemic, Texas A&M was able to mobilize its world-class talent to transform operations quickly in order to continue fulfilling its core mission of teaching, research and service.

## HIGHLIGHTS

**Texas A&M** successfully facilitated an **emergency transition to remote learning**, providing technology training to 1,400 professors and teaching assistants.

The university helped over **850 study abroad students** return home safely from over 70 different countries, and completed the education and preparation of **a record 12,801 students** to receive their degrees in May, and another 2,005 in August.

## COVID-19 RESPONSE

Texas A&M researchers are making **discoveries and innovations in the fight against COVID-19**, including:

- ▶ Working on two **vaccine candidates**
- ▶ Being the first to identify Remdesivir as a potential treatment option for COVID, **now being used in Texas hospitals as the most effective treatment option**
- ▶ Utilizing **3D printing** to create 200 diffusers for Houston Methodist Hospital
- ▶ See more examples of how Texas A&M is responding to COVID-19 at [today.tamu.edu/covid-19](http://today.tamu.edu/covid-19)

## RESPONSE COSTS

- To date, **COVID-19's total estimated impact** on Texas A&M's campus operations is **over \$125 million\***. Some examples are:
  - ▶ **Refunds and reimbursements** for housing, dining, and parking;
  - ▶ **Foregone budgeted revenues**, from canceled campus events and closure of revenue-generating activities (housing, dining, rec center, parking, etc.);
  - ▶ **Increased overtime**, for IT and other staff;
  - ▶ **Emergency leave** for faculty and staff;
  - ▶ **Technology costs** associated with alternative delivery of courses and protecting against cyber attacks (**11.9 million vulnerability attempts and 109,000 phishing scams blocked in January 2021**);
  - ▶ **Growing costs** associated with ensuring the safety of the campus, including PPE, classroom renovations, and additional cleaning and disinfecting.

\*Total estimated impact as of January 2021, includes lost revenues (e.g., housing, dining, etc.) and other areas before accounting for CARES Act aid.

# TEXAS RESEARCH UNIVERSITY FUND (TRUF)

The TRUF allows Texas A&M to compete with other national universities in recruiting and maintaining outstanding faculty.

## TRUF FACTS

- ▶ Created by the Texas Legislature in 2015 to provide "funding for eligible research universities to support faculty to ensure excellence in instruction and research.\*"
- ▶ Texas' research universities with total research expenditures above \$450 million are eligible for **TRUF**
- ▶ Funds are distributed based on a three-year average of total research expenditures
- ▶ **Texas A&M's** 2nd largest source of General Revenue (GR)
- ▶ In addition to the Governor's University Research Initiative (GURI), this fund allows Texas A&M to recruit and retain leading researchers like Dr. Ivan Rusyn and Dr. Thomas Overbye (see right)

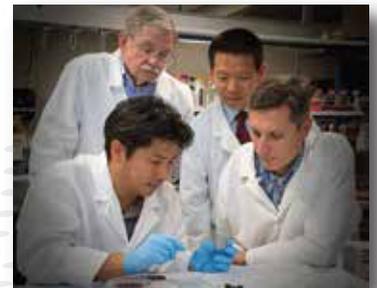
## REQUEST

- ▶ Maintain or enhance the **TRUF** formula rate

## RESEARCHERS

**Dr. Ivan Rusyn** (pictured below, far right) has been awarded millions of dollars in federal research funding since arriving at Texas A&M.

Dr. Rusyn was also elected to chair a National Academies committee on the protection of human health and the environment.



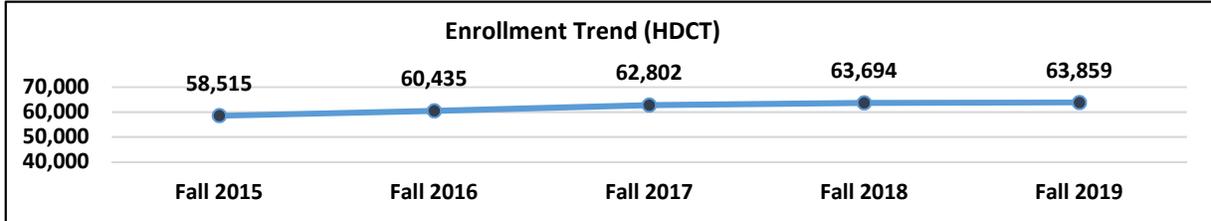
- ▶ Geomagnetic disturbance (GMD) events can wreak havoc on the state and country's power grid, leaving millions without power.
- ▶ TRUF helped Texas A&M's **Dr. Thomas Overbye** (pictured below) create the Texas Magnetometer Network (the first in the U.S.) to help better manage GMD events and improve the resiliency of Texas' power grid.



\*Texas Education Code Chapter 62, Subchapter C. Sec. 62.052.

Texas A&M University

Enrollment & SCH <sup>1</sup>	Fall 2017	Fall 2018	Fall 2019	Incr/(Decr)	% Incr/(Decr)
<b>Headcount (HDCT)</b>	<b>62,802</b>	<b>63,694</b>	<b>63,859</b>	<b>165</b>	<b>0.26%</b>
<i>In State</i>	54,022	54,790	55,096	306	0.56%
<i>Out of State</i>	3,509	3,535	3,511	(24)	-0.68%
<i>Foreign</i>	5,271	5,369	5,252	(117)	-2.18%
<i>Black Or African American</i>	2,239	2,156	2,042	(114)	-5.29%
<i>Hispanic</i>	13,120	13,753	14,194	441	3.21%
<i>White</i>	36,154	35,920	35,370	(550)	-1.53%
<i>Other</i>	11,289	11,865	12,253	388	3.27%
<b>Semester Credit Hour (SCH)</b>	<b>758,853</b>	<b>771,644</b>	<b>776,269</b>	<b>4,625</b>	<b>0.60%</b>



Faculty/Staff Headcount	Fall 2015	Fall 2016	Fall 2017	Fall 2018	Fall 2019
<i>Faculty</i>	2,923	3,042	3,066	3,163	3,230
<i>Staff</i>	5,648	5,907	6,038	5,993	6,270
Student Success	2015	2016	2017	2018	2019
<b>1st Yr Persistence Rate</b>	<b>90.0%</b>	<b>91.0%</b>	<b>91.9%</b>	<b>92.2%</b>	<b>93.1%</b>
<i>Black Or African American</i>	82.2%	85.9%	87.4%	89.6%	91.9%
<i>Hispanic</i>	84.6%	86.9%	88.4%	88.7%	89.8%
<i>White</i>	92.7%	93.1%	93.4%	94.0%	94.5%
<b>4-Yr Graduation Rate</b>	<b>54.6%</b>	<b>55.9%</b>	<b>55.0%</b>	<b>56.1%</b>	<b>58.6%</b>
<i>Black Or African American</i>	35.3%	35.1%	41.7%	43.1%	53.7%
<i>Hispanic</i>	46.4%	48.4%	49.9%	49.5%	53.2%
<i>White</i>	58.4%	60.1%	58.9%	59.9%	61.4%
<b>6-Yr Graduation Rate</b>	<b>80.1%</b>	<b>81.0%</b>	<b>82.3%</b>	<b>82.0%</b>	<b>81.3%</b>
<i>Black Or African American</i>	69.3%	70.3%	66.4%	60.3%	68.3%
<i>Hispanic</i>	72.5%	73.2%	77.4%	76.8%	74.0%
<i>White</i>	82.8%	83.9%	84.8%	85.5%	85.4%
<b>Transfer Students</b>					
<i>4-Yr Graduation Rate</i>	79.4%	80.6%	83.5%	83.5%	82.9%
<b>Student/Faculty Ratio</b>					
<i>Undergraduate</i>	23:1	23:1	24:1	23:1	n/a
<b>Degrees Conferred</b>	<b>13,297</b>	<b>13,953</b>	<b>15,104</b>	<b>15,934</b>	<b>16,352</b>

<sup>1</sup> Prelim SCH for Fall 2019

# ENROLLMENT PROFILE (FALL 2020)

## FACTS

- ▶ Texas A&M's Fall 2020 **total enrollment increased 2.4%** from last year, from 69,465 to 71,109 (includes Health Science Center, and branch campuses in Galveston and Doha, Qatar).
- ▶ The College Station campus had the greatest **increase of 1,501 students** for a total of 65,684.
- ▶ Graduate and professional student enrollment **decreased by 85 students** due to a decline in international students and remains just under 15,000.
- ▶ In Fall 2020, there was a **20% increase in transfer students**, a reflection of planned growth in several target areas.



*"The **demand for a degree from Texas A&M University remains strong** due to the excellence of our academic programs and the faculty who deliver them."*

- Carol Fierke, provost and executive vice president

*"Despite reports throughout the spring and summer about **potential declines** in enrollment across higher education due to the pandemic, **the university was able to meet its enrollment goals.**"*

- Joe Pettibon, vice president for enrollment and academic services

## DID YOU KNOW?

Texas A&M's total student enrollment for Fall 2020 represents:

- ▶ **243 of Texas' 254 counties,**
- ▶ **all 50 states,** and
- ▶ **131 countries!**



# TEXAS A&M RANKINGS

AMONG TEXAS PUBLIC UNIVERSITIES



**“Because of a good education at Texas A&M, my siblings and I can break the cycle of poverty that has plagued my family for generations.”**

**- Merari Boffill '18**

[TX.AG/MERARI](http://TX.AG/MERARI)



**#1 BEST BUY**, ONLY TEXAS SCHOOL LISTED  
-Fiske Guide To Colleges, 2021

**#1 BEST VALUE SCHOOL**  
-U.S. News & World Report, 2021

**#1 BEST VALUE** IN TEXAS  
-Money Magazine, 2020

**#1** IN UNDERGRAD **DEGREES AWARDED**  
-Texas Higher Education Coordinating Board Almanac, 2020

**#1 BEST BANG FOR THE BUCK**  
-Washington Monthly, 2020

**#1 BEST COLLEGE** IN TEXAS  
-Money Magazine, 2020

**#1 BEST COLLEGE FOR VETERANS**  
-College Factual, 2021

**#1** IN **ENROLLMENT**  
-Texas Higher Education Coordinating Board Almanac, 2020

**#1** IN **TRANSFER GRADUATION RATE**  
-Texas Higher Education Coordinating Board Almanac, 2020

**AFFORDABLE** **ACCESSIBLE**  
**TRANSFORMATIONAL**  
**ACHIEVEABLE** **RETURN ON INVESTMENT**

**Ask the students themselves.** According to the Wall Street Journal's 2021 College Rankings, **almost 90%** of surveyed Texas A&M students:

- ▶ **WOULD CHOOSE TEXAS A&M AGAIN**
- ▶ **DESCRIBE THE PEOPLE AND ENVIRONMENT AS INSPIRING**
- ▶ **SAY TEXAS A&M IS WORTH THE INVESTMENT**



**#1 RETURN ON INVESTMENT**  
PAYSCALE, 2015, '16, '17, '18, '19

# ECONOMIC VALUE TO TEXAS

Texas A&M creates a significant positive impact on the Texas business community and generates a return on investment to its major stakeholder groups - students, taxpayers, and society.

## IMPACTS

- ▶ **\$432.9 million:** Texas A&M's operations spending impact (equivalent to supporting 8,784 jobs)
- \$976.4 million:** Texas A&M's research spending impact (equivalent to supporting 14,973 jobs)
- ▶ **\$119.2 million:** Texas A&M's construction spending impact (equivalent to supporting 1,801 jobs)
- ▶ **\$1.1 billion:** Texas A&M's start-up and spin-off company impact (equivalent to supporting 10,109 jobs)
- \$313.3 million:** Texas A&M's student spending impact (equivalent to supporting 6,486 jobs)
- ▶ **\$205 million:** Texas A&M's visitor spending impact (equivalent to supporting 4,661 jobs)

**\$3.1 BILLION**  
**TOTAL TEXAS A&M IMPACT**  
 (EQUIVALENT TO SUPPORTING 46,813 JOBS)

## FORMER STUDENTS

- Over the years, students have studied at Texas A&M and entered or re-entered the workforce with newly-acquired knowledge and skills. Today, **tens of thousands of former students are employed in Texas.**



- The accumulated **contribution of former students** currently employed in the Texas workforce amounted to **\$6.0 billion** in total income in 2018-19 (equivalent to supporting 63,896 jobs)

**\$6.0 BILLION**  
**TOTAL FORMER STUDENT IMPACT**  
 (EQUIVALENT TO SUPPORTING 63,869 JOBS)

**\$9.1 BILLION**  
**GRAND TOTAL IMPACT**  
 (EQUIVALENT TO SUPPORTING 110,682 JOBS)

# CYCLOTRON INSTITUTE

*"The Cyclotron Institute represents the best of government, academia, industry and philanthropy at work for the greater good."* - **Dr. Sherry J. Yennello, Director of the Cyclotron Institute**

## CYCLOTRON FACTS

- ▶ Operating for over **50** years
- ▶ Jointly supported by the U.S. Department of Energy and the state of Texas as a major technical and educational resource for the state, nation and world.
- ▶ Provides the primary infrastructure support for the University's graduate programs in nuclear chemistry and nuclear physics.
- ▶ Clients include Boeing, Lockheed-Martin, NASA, the Jet Propulsion Laboratory and the U.S. Navy Laboratories.
- ▶ Generates over **\$7.5 million** in external grants each year.



The K500 Superconducting Cyclotron

## REQUEST

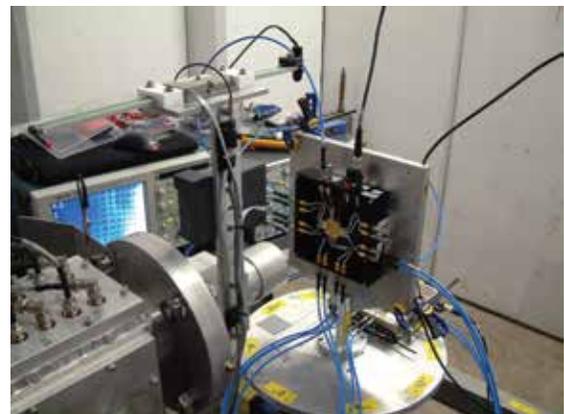
FUND THE CYCLOTRON INSTITUTE AT **\$260,314/YR (FY22-23)**

## IMPACTS

The K150 Cyclotron is being used to produce radioactive isotopes that can be used for experimental **treatments for cancer** and other medical conditions.

## DID YOU KNOW?

Nearly **100** electronic components of **SpaceX's Crew Dragon** capsule were tested at the **Texas A&M Cyclotron Institute**, in preparation for its **historic trip** as the first crewed spacecraft launched from American soil since 2011.



\*The Cyclotron Institute was appropriated \$260,314 per year for FY 20-21, prior to budget cuts.

# TEXAS SEA GRANT PROGRAM

*"These research investments will generate substantial social, economic and environmental impacts, help develop the workforce and contribute to the sustainability of Texas' natural and built environments."*

- Dr. Pamela Plotkin, Director, Texas Sea Grant

## HOW DOES IT IMPACT THE GULF COAST COMMUNITY?

- ▶ Improves the understanding, wise use, and stewardship of Texas coastal and ocean resources
- ▶ **Restored 5,522 acres** of coastal wetlands, dunes, and prairies in 2019
- ▶ **Saved** 38 coastal communities more than **\$400,000** through resiliency and ecosystem management
- ▶ Totaled **\$4.1 million** in fuel savings and assistance for the Texas shrimp industry
- ▶ Mobilized **73,336 hours** of volunteer time valued at **\$1.8 million**
- ▶ Read more at: [tx.ag/SeaGrantTAMU](http://tx.ag/SeaGrantTAMU)



## RETURN ON INVESTMENT

**\$22** to **\$1**

Every state dollar invested in Texas Sea Grant **returns more than \$22** to the Texas economy

## FACTS & IMPACTS

- Texas Sea Grant **generates income for the Texas economy**, and leverages funding from the National Oceanic & Atmospheric Administration (NOAA) to receive matching funds
- from the state of Texas



\*The Texas Sea Grant program was appropriated \$170,807 per year for FY 20-21, prior to budget cuts.

## 87th LEGISLATIVE PRIORITIES

# COLONIAS PROGRAM

The Colonias Program recruits and leads collaborative teams of public and private agencies who use their resources to help pave a way forward for residents. From providing education and health services, to improving utility services and infrastructure, the Colonias Program delivers an impressive return on the State's investment.

## COLONIAS FACTS

- ▶ **Since 1991**, the program has leveraged local, regional and national resources to help meet the health, education, infrastructure and economic development needs of communities.
- ▶ Extends basic services to underdeveloped communities, serving nearly one million Texans in **2,300 colonias** to create sustainable solutions for local challenges.
- ▶ Enhances the **quality of life** and place for residents in unincorporated, unregulated, sub-standard settlements.
- ▶ Housed in Texas A&M College of Architecture, the program is an important part of the college's outreach efforts.



## REQUEST

FUND THE COLONIAS PROGRAM AT  
**\$356,298/YR (FY22-23)**

## IMPACTS

Residents in several South Texas communities are receiving health services, including COVID-19 testing at mobile or mini-clinics that were secured by the Colonias Program.



## DID YOU KNOW?

▶ The Colonias Program sponsored a school supply drive in 2017, **delivering backpacks full of supplies to more than 1,400 students in Bexar, Cameron, Hidalgo, and Willacy counties.** Local organizations were recruited to coordinate the school supply drives, all of which continue in their respective counties today.

## 87th LEGISLATIVE PRIORITIES

## ENERGY RESOURCES PROGRAM

Accelerating advanced and emerging technologies in both renewable and traditional sources of energy by cultivating innovative strategies to **maintain the State's leadership** in wind power, renewable energy technologies, natural gas production and distribution, and critical issues associated with water use and energy production.

## ENERGY FACTS

- ▶ Texas **produces more electricity** than any other state.
- ▶ Energy is **critical to the economy** of Texas and **the well-being of its citizens**.
- ▶ Texas is **the top U.S. producer** of both crude oil and natural gas.
- ▶ In 2019, Texas accounted for **41% of the nation's crude oil production** and **25% of its natural gas production**.
- ▶ Texas leads the nation in **wind-powered generation** and **produced about 28%** of all U.S. wind-powered electricity in 2019.
- ▶ Texas wind turbines have **produced more electricity** than both of the state's nuclear power plants since 2014.



## REQUEST

FUND THE ENERGY RESOURCES PROGRAM  
AT **\$262,029/YR (FY22-23)**

## IMPACTS

- **Established in 1976** the program has played a key role on energy-related projects funded by federal agencies and external entities.
- Supports efforts to **educate the Texas workforce** in all energy-related areas.
- Helped fund seed grants in the last 5 years that resulted in **110 publications, 2 patents, 50+ proposals** to federal and private agencies, and **\$7 million in external funds**.

## DID YOU KNOW?

- In just the last 5 years, ERP funds have been used, in part, to **bring almost \$400 million in funding** to the State of Texas for energy research and education at Texas A&M:
- **\$74.1 million** in 2016
- **\$72.0 million** in 2017
- **\$81.8 million** in 2018
- **\$82.1 million** in 2019
- **\$86.2 million** in 2020 (estimated)