Texas State University:
A Leader In Research & Innovation Focused On Solving Real-World Problems

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If you could design the perfect comprehensive research university to educate the next generation workforce and solve real-world problems through cutting-edge science, what would it look like?

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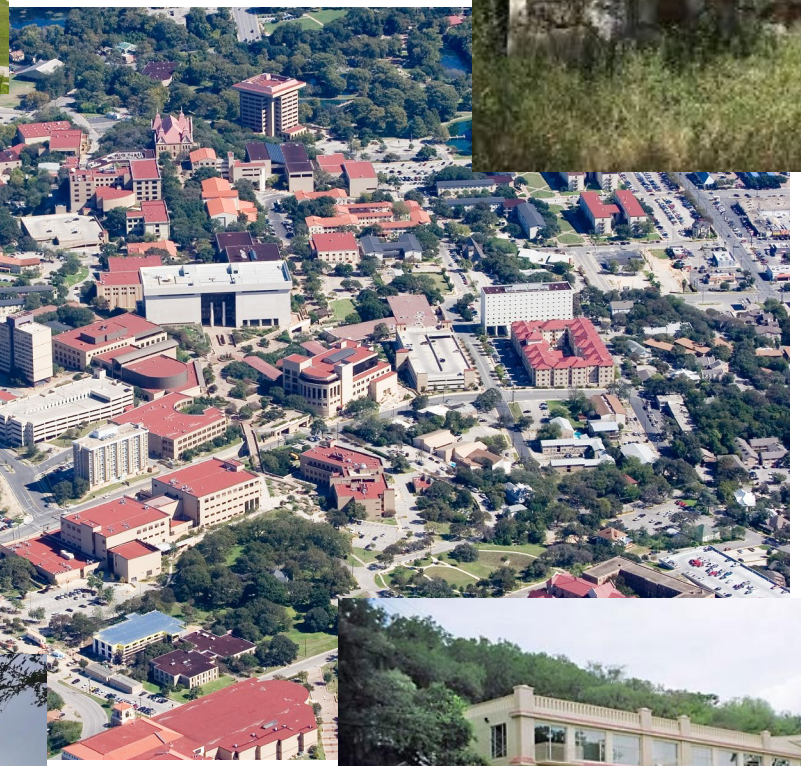
TEXAS STATE UNIVERSITY
1899



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Texas State University

- Approximately 38,000 students; 34 largest university in the U.S.
- Approximately 54.9% of our students identify as ethnic minorities
- Ranks 14th in the nation for bachelor's degrees awarded to Hispanic students
- A Federally Designated Hispanic Serving Institution
- Degree Programs
  - 99 bachelor's
  - 93 master's
  - 14 doctoral (newest: PhD in Applied Computer Science)
- Ranked in the top 50 schools in the nation (top 5 in Texas) in R&D expenditures in the Humanities
- Ranked in the top quartile nationally in total R&D expenditures
- A Carnegie designated Research University (R2)
- 80% of R&D funding from federal sponsors
- World-class faculty

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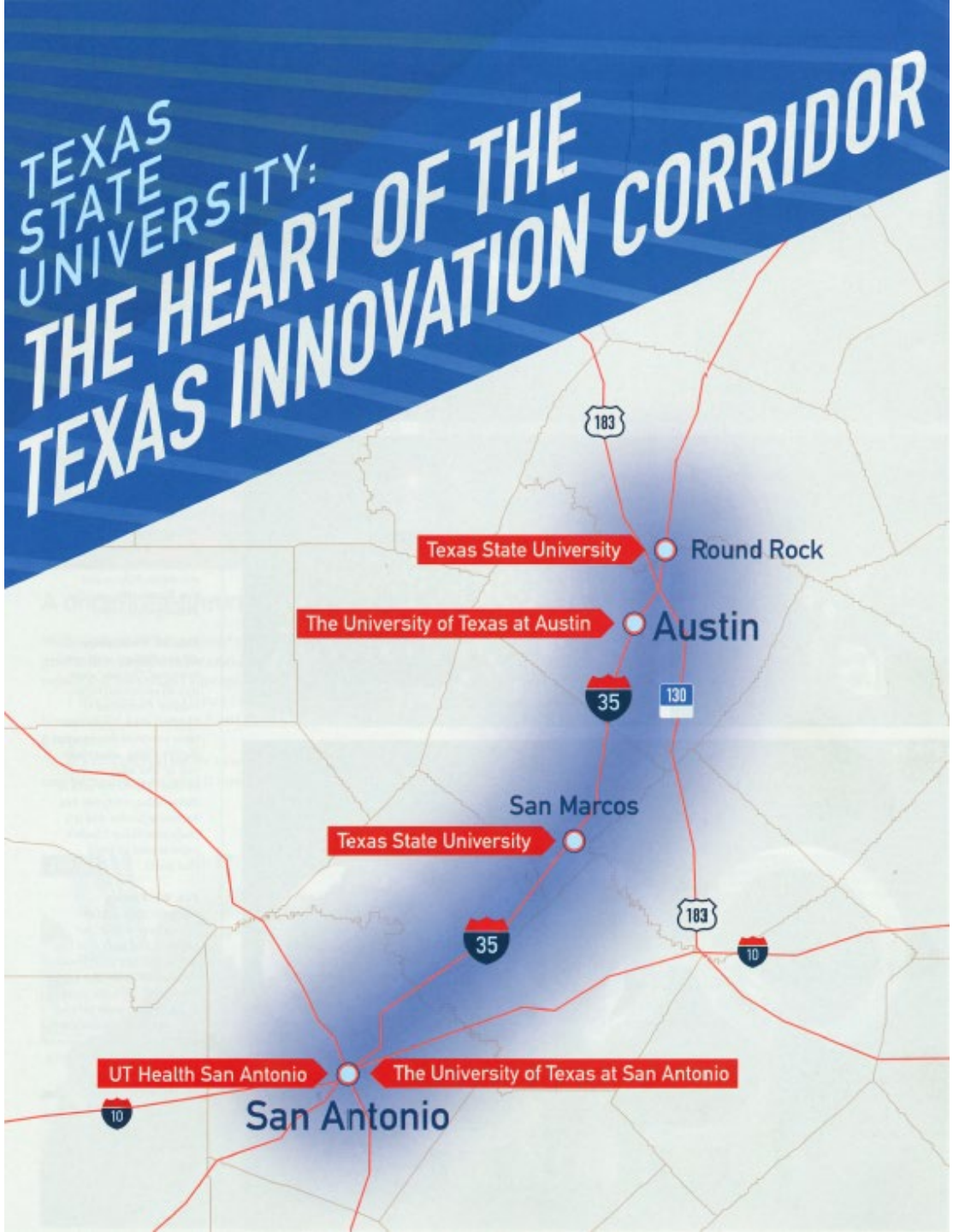

Research & Innovation with Relevance

- Material Sciences
- Engineering
- Criminal Justice/Public Safety
- Water and the Environment
- Wildlife Management
- Education Research
- Computer Sciences
- Archeology & Anthropology
- Translational Health Sciences
- Creative Expression

SPACEX

NATIONAL ENDOWMENT FOR THE HUMANITIES

NASA

NIH
National Institutes of Health

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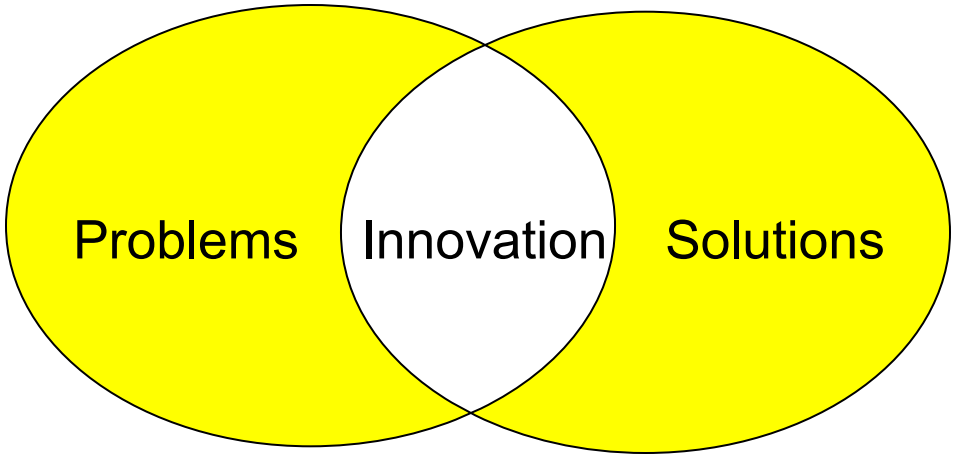
Research & Development-a continuum that includes adding new features to existing products "the iron lung paradox"



Basic research produces "solutions" in search of problems

Applied research is directional in search of a solution to a specific problem

Translational Research-transferring knowledge into practice

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"The future is very difficult to predict…

it easier to create it yourself"

Applied Research

Application of artificial intelligence and machine learning

"Blue-collar scientists"

Research with Relevance

Partnership with Jacobs Engineering and NASA

Research with relevance not only solves real-world problems but also provides our students with the skills needed for the modern workforce

The research and innovation mission at Texas State spans across the humanities, social sciences, performing arts, liberal arts, and STEM disciplines

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Oleg Komogortsev, Ph.D.
Professor
Computer Science
Texas State University

Research interests: cybersecurity (biometrics), human computer interaction, eye tracking, bioengineering.

Google Faculty Research Award 2018
(Augmented and Virtual Reality)

Sponsored Research Agreement with Facebook

Presidential Award for Scholarly and Creative Activities 2019

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Dr. Kathy Martinez-Prather
Director Texas School Safety Center

Mission

The Texas School Safety Center serves schools and communities to create safe, secure, and healthy environments.

University Research Centers

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

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Dr. Shetay Ashford

College of Applied Arts
Department of Occupational, Workforce, and Leadership Studies

Diversifying the STEM Workforce

Awarded an NSF CAREER Award

Research agenda focuses on broadening the participation of historically underrepresented minorities and women of color in the STEM workforce

Approaches:
Community economic development Program design and evaluation Intrapreneurship and entrepreneurship, Cyberlearning.

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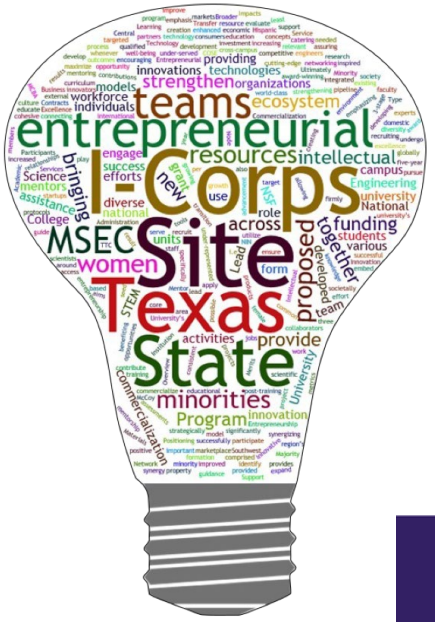
CENTER FOR INNOVATION + ENTREPRENEURSHIP



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Technology Transfer

- A process that moves knowledge from the lab to the market
- A process that converts scientific and technological findings into marketable goods or services
- Assignment of intellectual property generated in one place to another place through defined processes

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Who is transferring it (knowledge, technical or scientific findings, intellectual property) and who is receiving it?

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Who is transferring it (knowledge, technical or scientific findings, intellectual property) and who is receiving it?

Universities
Hospitals/Medical Centers
Government Agencies

Not-for-profit

Companies

For-profit

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Technology Transfer
What? Who? How? Why?

- Protection of Intellectual Property

- Licensing (handing off the baton)

universities are not in the best position to monetize research findings…that is where the private sector comes in

Collaboration
Partnerships
Win-Win
Public good

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IP & Technology Transfer Process

Faculty, Staff, Students Invention, Discovery, Intellectual Creations

→ Invention Disclosure Form (IDF) Submit to TTC

IP Committee Recommendations

- Defer Decision Pending Additional Research or Information
- Release to Inventor
- Inventor Initiation to File
- Send to Commercial Market Assessment

Commercial Market Assessment Report

IP Committee Recommendations

- Hold the Disclosure Due to Ongoing Research
- Release to Inventor
- Inventor Initiation to File
- File Patent

Identify Potential Licensees
Market Technology or other IP
Negotiate License Agreement

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Recent Technology Transfer Portfolio

- 102 Invention Disclosures were received
- Patent Applications filed:
  - 45 Provisional
  - 33 PCTs
  - 18 US
- 6 US patents issued
- 9 companies were formed
- 13 Licensing Agreements were signed

In FY20 in the midst of a global pandemic, with the laboratories and field sites closed for 2 months, Texas State University set a record for total R&D expenditures at $70.6M and a record of 670 grant submissions requesting over $211M

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Office of Research & Sponsored Programs

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Thank you!

We are here to support you!

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