



# Research Initiatives Updates

TAMEST Board of Directors Meeting

Dr. Taylor Eighmy  
President, UTSA

June 20, 2022

# UTSA's Planned Trajectory

**R1**

Carnegie's highest  
research classification

✓ DEC 2021

**NRUF**

Tier One in the  
State of Texas

✓ MAY 2022

**AAU  
Equivalent**

Nation's most  
prestigious research  
institutions

INITIATIVE UPDATE

# Brain Health Consortium

Home to 40+ world-class scientists  
committed to discovering the inner  
workings of the brain



# BRAIN HEALTH CONSORTIUM

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## Research Pillars

1. Stem cells and precision medicine
2. Neuroengineering
3. Neuroscience

### **NIH Brain Initiative** | \$12.5M awarded, 2021

Secured to advance new methods for studying genetic brain disorders through male germline editing in marmosets

### **Oskar Fischer Prize** | \$4M awarded, 2022

Funding for innovative explanations of Alzheimer's disease





INITIATIVE UPDATE

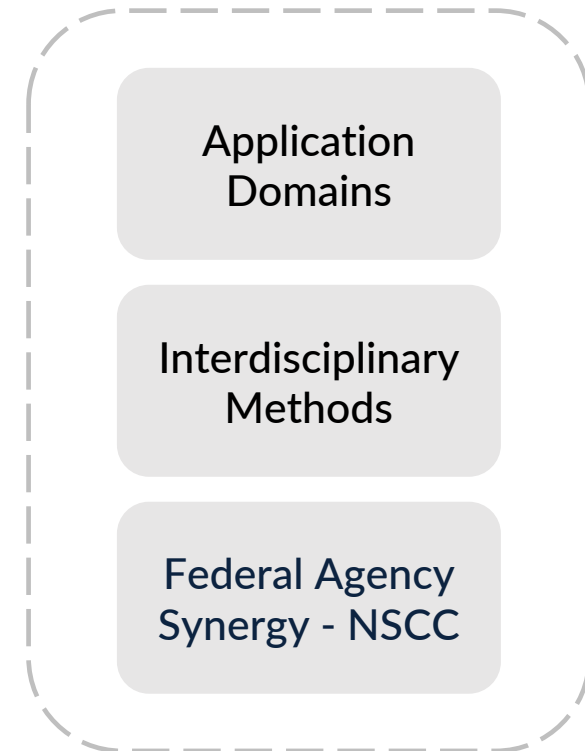
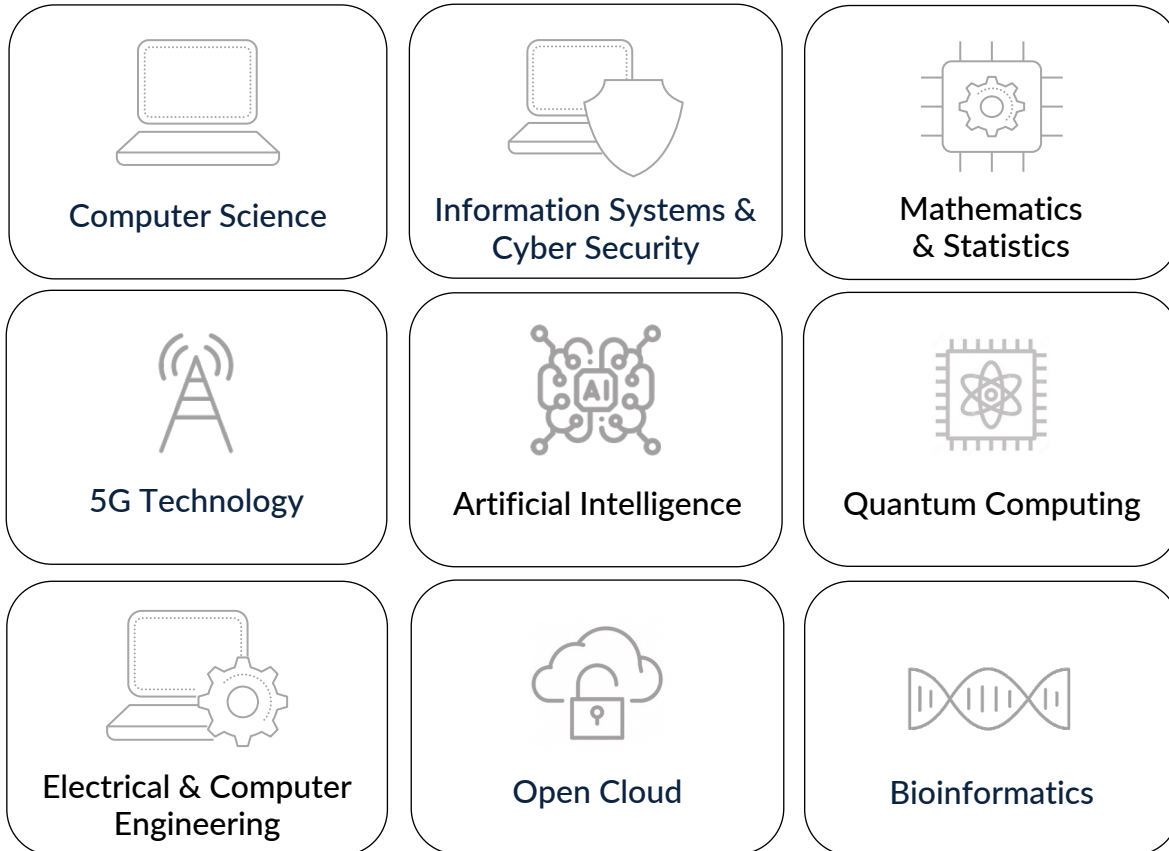
# School of Data Science

To inspire and prepare a generation of diverse data scientists who can make our world more equitable, informed and secure



# FIRST OF ITS KIND IN TEXAS

Radical Innovation in Data Generation, Engineering, Analysis, and Protection







Innovation, Entrepreneurship  
& Careers Building

UTSA Downtown Campus

School of Data Science &  
National Security Collaboration Center

INTERSTATE 10 & 35



INITIATIVE UPDATE

# National Security Collaboration Center

Catalyzing government-  
university-industry R&D  
collaboration in our national  
security ecosystem





# NATIONAL SECURITY COLLABORATION CENTER

- **Joint Base San Antonio**, largest joint base in the United States
- **16th Air Force**, global cyber operational wing for entire Air Force
- **NSA Texas**, the largest National Security Agency hub outside of Washington, D.C.
- Many other **Department of Defense, national security and cybersecurity agencies** (DHS, FBI, NSA, USSS)
- **2,725 defense contractors** and **\$6B in defense contracts and personnel spending** in 2019
- **New Cybersecurity Manufacturing Innovation Institute** - Department of Energy investing \$111M 2020-25

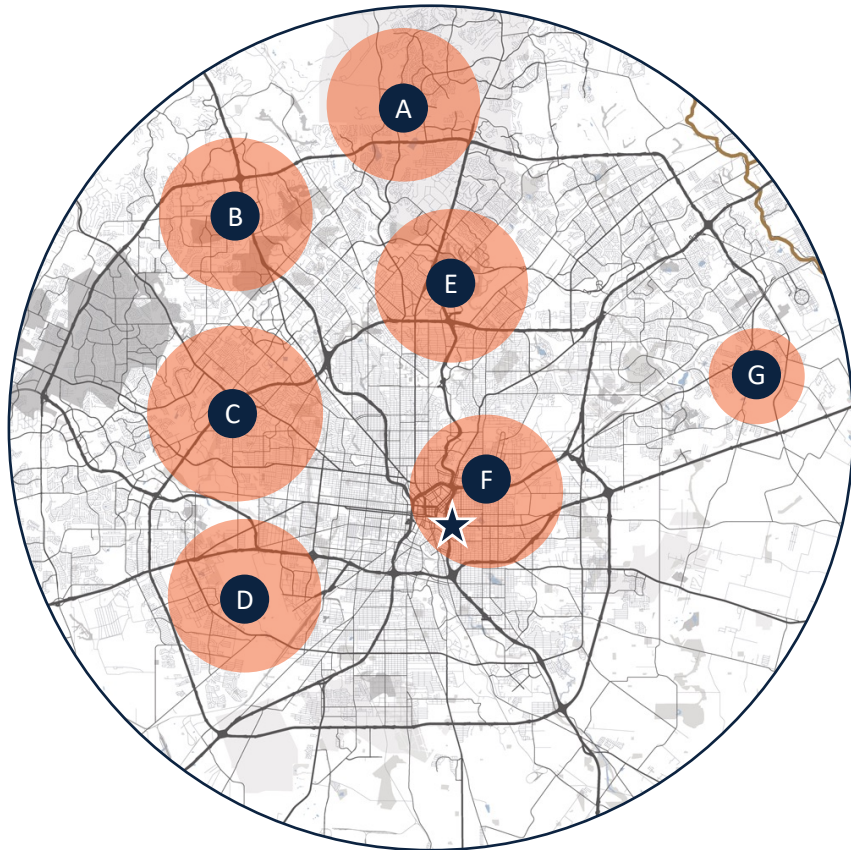
## FEDERAL AND STATE ENTITIES



## REGIONAL INDUSTRY (DATA PARTNERS)



# NATIONAL SECURITY COLLABORATION CENTER



★ Future location of **UTSA** School of Data Science, National Security Collaboration Center and CyManII

- A**
- Tesoro Corp. (Endeavor)
  - Cisco Systems
  - M2 Technology
  - STS Systems Integration
  - JBSA Camp Bullis

- C**
- Southwest Research Institute Inc.
  - National Security Agency (NSA) Texas
  - Raytheon
  - Mitre Corp
  - Sierra Nevada Corp

- Battelle Memorial Institute
- Northrop Grumman
- Texas Biomedical Research Institute
- UT Health San Antonio

- E**
- UTSA
    - School of Data Science
    - National Security Collaboration Center
    - CyManII
  - Honeywell International Inc
  - Valero Energy Corp.
  - FBI Field Office
  - Accenture Federal Services
  - Chenega Corp.
  - Fluor Marine Propulsion
  - CACI

- B**
- Huntington Ingalls Industries
  - Jacobs Engineering Group
  - The Parsons Group
  - Department of Homeland Security
    - Region 6
    - US Secret Service
  - MedTrust LLC
  - Deloitte

- F**
- AECOM
  - Vesa Health and Technology
  - Fort Sam Houston
  - Labatt Institutional Supply Inc.
  - Texas Army National Guard
  - Texas Air National Guard
  - Brooke Army Medical Center (BAMC)
  - JBSA Fort Sam Houston
    - US Army North
    - US Army Installation Management Command
    - San Antonio Military Medical Center (SAMMC)
    - US Army Mission and Installation Contracting Command
    - Defense Health Agency

- G**
- JBSA Randolph Air Force Base
    - Headquarters
    - Air Education Training Command (AETC)
    - 12<sup>th</sup> Flying Training Wing

- D**
- Leidos Holdings Inc.
  - KBR
  - Science Applications International Corp
  - JBSA Lackland Air Force Base
    - 16<sup>th</sup> Air Force
    - Joint Information Operations Warfare Center
    - 37<sup>th</sup> Training Wing

- 149<sup>th</sup> Fighter Wing
- Air National Guard
- Port San Antonio/Kelly Field Annex
  - 16<sup>th</sup> Air Force
  - 688<sup>th</sup> Cyberspace Wing
  - 67<sup>th</sup> Cyberspace Wing
  - Air Force Life Cycle Management Cryptologic and Cyber Systems Division

- Air Force Installation and Mission Support Center
- Air Force Civil Engineer Center
- Defense Health Agency
- Port San Antonio (private companies)
  - The Boeing Company
  - StandardAero
  - Lockheed Martin

- Northrup Grumman
- Booz Allen Hamilton
- CACI
- Salient CRGT
- PlusOne Robotics
- Reckon Point
- CNF Technologies
- IPSecure
- Technica, Corp



Booz | Allen | Hamilton



Sandia National Laboratories





INITIATIVE UPDATE

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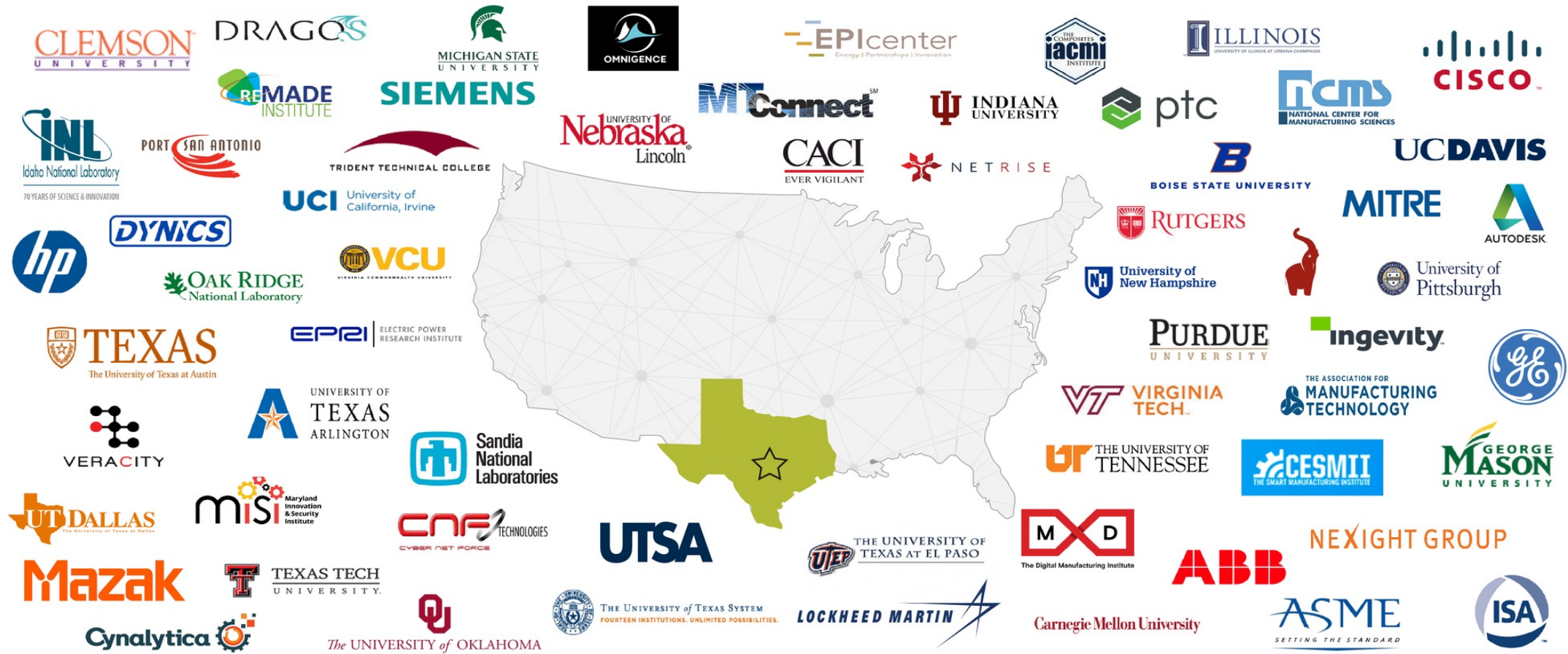
# Cybersecurity Manufacturing Innovation Institute (CyManII)

Next-generation cybersecurity architecture for our nation's manufacturers, one of 16 Manufacturing Innovation Institutes nationally





# Collaborative Team



# Meeting the Need: Three Focus Areas

1



Securing automation

2










Protecting supply chain network

3



Building a national education & workforce development program

# Partnerships

<p><b>Texas Association of Manufacturers</b></p> 	<p><b>UTSA National Security Collaboration Center</b></p> 	<p><b>Cybersecurity Manufacturing Innovation Institute</b></p> 	<p><b>UTSA Small Business Development Center Network</b></p> 	<p><b>Texas Economic Development Corporation</b></p> 	<p><b>Texas Department of Information Resources</b></p> 	<p><b>Port San Antonio</b></p> 
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**UTSA**<sup>®</sup>  
**CREATING**  
**BOLD**  
**FUTURES**<sup>®</sup>