Building Partnerships to meet Global Security Challenges

Dr. Taylor Eighmy
August 14, 2018
Charting Our Cybersecurity Future
Cyber UTSA
A leader in cyber education since 1999

Undergraduate
- B.B.A. Cyber Security (online and residential)
- B.B.A. Information Systems
- B.S. Computer Engineering
- B.S. Computer Science
  - Cyber Security Concentration
  - Cyber Operations Track

Masters
- M.S. Computer Engineering
- M.B.A. Cyber Security Concentration
- M.B.A. Information Systems Concentration
- M.S. Data Analytics
- M.S. Information Technology
  - Cyber Security Concentration
- M.S. Computer Science
  - Cyber Security Concentration
  - Data Science Concentration

Doctoral
- Ph.D. Information Technology
- Ph.D. Computer Science

Certificate
- Cloud Computing
- Data Center Design
- Pathogenic Outbreak Investigations
## Cyber UTSA

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### Faculty

<table>
<thead>
<tr>
<th>70</th>
<th>Six of which are endowed from entities such as AT&amp;T and Rackspace (80/20 Foundation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 out of 9</td>
<td>colleges at UTSA include cyber programs</td>
</tr>
</tbody>
</table>

### Students

<table>
<thead>
<tr>
<th>3,145</th>
<th>Undergrads in cyber, cloud, computing &amp; analytics</th>
</tr>
</thead>
<tbody>
<tr>
<td>323</td>
<td>Masters students</td>
</tr>
<tr>
<td>164</td>
<td>Doctoral students</td>
</tr>
<tr>
<td>98</td>
<td>Students earned undergraduate cybersecurity degrees in 2017-18</td>
</tr>
<tr>
<td>26</td>
<td>Students earned graduate cybersecurity degrees in 2017-18</td>
</tr>
</tbody>
</table>

### Research

$100+ Million

Research awards in cyber programs since 2000

### Rankings

<table>
<thead>
<tr>
<th>#1</th>
<th>Cybersecurity program</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ponemon Institute</td>
</tr>
<tr>
<td>#2</td>
<td>Cybersecurity graduate program</td>
</tr>
<tr>
<td></td>
<td>Universities.com</td>
</tr>
</tbody>
</table>
UTSA’s Cyber Designations
National Security Agency & Department of Homeland Security

- Information Assurance Education 2002
- Information Assurance Research 2009
- Cyber Defense Digital Forensics Focus Area 2014
- Cyber Operations Fundamentals 2018
TALENT ACQUISITION

UTSA is focused on bringing the world’s best and brightest researchers to San Antonio, boosting our capacity to solve society’s grandest challenges.
Dr. Nicole Beebe
Melvin Lachman Distinguished Professor in Entrepreneurship
Associate Professor of Information Systems and Cyber Security

A leader in the cybersecurity revolution
Cybersecurity

New Faculty Hires

Dr. Peyman Najafirad
Associate Professor of Information Systems and Cyber Security
Previously at Rackspace

Dr. David Dampier
Interim Chair and Professor of Information Systems and Cyber Security
Previously at Mississippi State University

Dr. Bradley Thayer
Professor of Political Science and International Cybersecurity
Previously at the University of Minnesota Duluth

Dr. Murtuza Jadliwala
Assistant Professor of Computer Science
Previously at Wichita State University

Dr. Zhan Qin
Assistant Professor of Electrical & Computer Engineering
Previously at University at Buffalo

Dr. Guenevere Qian Chen
Assistant Professor of Electrical & Computer Engineering
Previously at Savannah State University
A NEW PARTNERSHIP

Cybersecurity
Digital Forensics
Data Analytics
Machine Learning
Infrastructure Risk Modeling
Innovative Education Outreach
A NEW PARTNERSHIP

Cyber Defense
Cyber Resiliency
Interdependencies of Critical Infrastructure
Supervisory Control & Data Acquisition
Predictive Simulation & Design Optimization

Sandia National Laboratories
UTSA’s Current & Future National Security Portfolio

Cybersecurity & Cloud Computing
Counter Terrorism
Election Security
Cyber Attack/ Deterrence & Policy
Infectious Diseases & Biological Threats

Military Health & Wellness
Demographic Methods & Trends
Governance & Policy
Emergency Management & Communications
Border & Refugee Issues

Advanced Materials
Nanotechnology
Critical Infrastructure Protection
Robotics & UAVs
Analytics
High Performance Computing

Artificial Intelligence
Machine Learning
Data Visualization
High Tech Intelligence
National Security Collaboration Center

- Fills dire need for cybersecurity workforce
- Fuels San Antonio’s Tech Corridor
- Supports major companies growing or moving to San Antonio
- Aligns with federal agency presence
- Advances San Antonio’s position as a leader in national security
- Hub for Texas Cyber Corridor
UTSA is actively pursuing 11 additional industry partnerships.

National Security Collaboration Center
Current Industry Partners

CISOs
Top producer in the nation

collaboratory
Solving the nation’s intractable cyber problems

partners
Leaders in the industry
National Security Collaboration Center
Current Federal Partners

coordinated federal response

synergy with federal agency density in San Antonio

model Government-University-Industry partnership

UTSA IS ACTIVELY PURSUING 4 ADDITIONAL FEDERAL PARTNERSHIPS

- 24th Air Force
- 25th Air Force
- NSA Texas
- Federal Bureau of Investigation
- Department of Energy National Labs
- Army Research Laboratory
- US Secret Service
National Security Collaboration Center

Research Centers
- Cyber Center for Security and Analytics
- Collaborative research and training spaces
- Center for Infrastructure Assurance and Security

Sensitive Compartmentalized Information Facility
- Classified Research
- Federal Partners/Contractors

Cyber Protective Operations Center
- Federal Partners

Computational Technology
- Visualization Laboratory
- High Performance Computing
- Cyber Range

Innovation Factory
- Early Stage Technologies
- Student & Faculty Start Ups
Thank you!