

UTA Strategic Plan 2022 – A University of Excellence

SAME Fort Worth Post Industry Government Engagement (May 2nd, 2022)

Nick Z. Fang Ph.D., P.E. Associate Professor

Water Resources Engineering | Civil Engineering Dept. | UTA

UTA – A University of Excellence

Tier One

4th university in the state to receive the coveted Texas Tier One designation

R-1

Doctoral University

Best Graduate Program

16 graduate programs recognized in 2022-2023

#1

In the Nation for Veterans and their families

HSI

Hispanic Serving Institute

Top 10

Military Friendly School for 2022-2023

MEET THE PRESIDENT

Dr. Jennifer Cowley took the reins as UTA's 10th president on April 28, 2022.

ABOUT DR. COWLEY

Themes of the UTA Strategic Plan 2022



UNIVERSITY OF
TEXAS
ARLINGTON

- **People and Culture**
- **Student Success**
- **Research and Innovation**
- **Alumni and Community Engagement**

College of Engineering

Research

Annual research expenditures for the College of Engineering exceeded **\$41.5 million** in 2021 vs. UTA total (more than **\$54.8 million**).

Degrees Offered

11 bachelor's/13 master's/9 doctoral

Student Enrollment (Fall 2021)

7,914 total (5,248 undergraduate + 2,666 graduate (2,147 master's + 519 doctoral))

Faculty

219 total faculty (13 fellows of the National Academy of Inventors and 4 Members of the National Academy of Engineering)

College of Engineering Dean's Priorities

- **Entrepreneurship** - Build an eco-system of resources and mentorship for entrepreneurial activities
- **Diversity and Inclusion** - Enhancing initiatives to support minorities and underrepresented groups in Engineering
- **Innovation** - Create and maintain Maker Spaces where students can innovate and prototype
- **Research Excellence** - Empowering faculty researchers with assistance to continue exploration of new discoveries
- **Student Success** - Provide scholarships, career readiness, and support of student chapter professional organizations, special interest clubs, and honor societies



COE Dean - Dr. Peter Crouch

College of Engineering Focus Areas

College Focus Areas and UTA's Strategic Themes

| | Health and the Human Condition | Sustainable Urban Communities | Global Environmental Impact | Data-Driven Discovery |
|-------------------------------------|--------------------------------|-------------------------------|-----------------------------|-----------------------|
| Aerodynamics | | | | X |
| Automation/ Artificial Intelligence | X | X | | X |
| Big Data/HPC | X | X | | X |
| Built Infrastructure | | X | X | |
| Communications and Networks | | X | | X |
| Energy | | X | X | X |
| Engineering of Biomedical Systems | X | | | X |
| Internet of Things | X | X | | X |
| Healthcare | X | | | X |
| Logistics | X | X | | X |
| Manufacturing | | X | X | X |
| Materials | X | X | X | |
| Nanotechnology | X | | X | X |
| Security | X | X | | X |
| Smart Cities | X | X | X | X |
| Water | X | X | X | |

College Focus Areas and Supported Industries

| | Construction | Resource Engineering* | Automotive | Aerospace/Defense | Electric Power | Non-Energy Utilities | Healthcare | Electronics | Software |
|-------------------------------------|--------------|-----------------------|------------|-------------------|----------------|----------------------|------------|-------------|----------|
| Aerodynamics | | | | X | | | | | |
| Automation/ Artificial Intelligence | | | X | X | | | X | X | X |
| Big Data/HPC | | | | | X | | X | X | X |
| Built Infrastructure | X | X | | | | X | | | |
| Communications and Networks | | | X | | X | | | X | X |
| Energy | X | X | X | X | X | | | | |
| Engineering of Biomedical Systems | | | | | | | X | | |
| Healthcare | | | | | | | X | | X |
| Internet of Things | | | X | | | | X | X | X |
| Logistics | X | | | X | | | X | | X |
| Manufacturing | X | | X | X | | | | | X |
| Materials | X | X | | X | X | | | X | |
| Nanotechnology | | | | X | | | X | X | |
| Security | | | | X | X | | X | | X |
| Smart Cities | X | X | X | | X | X | | X | X |
| Water | X | X | | | | X | | | |

* - not extraction of oil and gas



Interagency Flood Risk Management (InFRM)

- Established 2014
- Regional/Statewide/Basin-wide approaches & support
- Supports common missions
- Collaboration
- Leveraging resources and information
- Limit duplication of effort
- Established InFRM Academic Council - 2017

 **InFRM**
INTERAGENCY FLOOD RISK MANAGEMENT