



## TENNESSEE TECHNOLOGICAL UNIVERSITY



### GRADUATE STUDIES IN:

#### **STRUCTURAL ENGINEERING**

Structural Engineering Structural Mechanics

- Earthquake Resistant Masonry and Concrete Design
- Advanced Bridge Design and Analysis
- Prestressed Concrete Design
- Continuum Mechanics
- Composite Materials, Plates and Shells
- Computational Algebraic Geometry
- Non-linear Structural Analysis



#### **WATER/ENVIRONMENTAL ENGINEERING**

Hydrology, Hydraulics, Remediation and Pollution Control



- Distributed Water Treatment and Processes
- Solid Waste Management
- Urban Stormwater Management
- Eco-Hydraulics and Wetlands Management
- Space-borne Monitoring of Water Resources
- Transboundary Water Resources and Hydro-politics
- Large-scale Water Cycle studies using Remote Sensing

#### **TRANSPORTATION/MATERIALS ENGINEERING**

Traffic Systems, Transportation Planning, Construction Materials

- Urban Travel Demand and Modeling
- Transport Landuse Interaction
- Non-traditional Intersection and Arterial Design
- Traffic Systems Operations
- Early-age Behavior of Concrete
- Chemistry, durability and microstructure of Concrete
- Rapid Set High Strength Concrete for Infrastructure Maintenance

#### RESEARCH SPONSORS

**Environmental Protection Agency**  
**National Science Foundation**  
**NASA**  
**Federal Highway Administration**  
**Department of Energy**  
**Tennessee Department of Transportation**  
**TN Concrete Association**  
**US Wildlife and Fisheries**  
**United States Agricultural Service**  
**USGS**

#### **WHY CHOOSE TENNESSEE TECH UNIVERSITY?**

Situated in the scenic rolling hills of the upper Cumberland region, TTU is regarded as a top engineering school in the South, with historically the best undergraduate programs in engineering in Tennessee. To build upon this legacy of producing performance-ready engineers, the university's leadership has recently embarked upon a longer-term vision to transform TTU into a nationally recognized, mid-sized research institution by 2015. Young TTU faculty have regularly won the most competitive national awards such as NSF CAREER, PECASE, NASA New Investigator Program to establish nationally visible research programs in areas such as High Performance Concrete, Bridge and Pavement Design, Fuel Cell Research, Wireless Communication, Sustainable and Space-borne Water Resources Management, Nanotechnology. TTU is also home to three state-funded Centers of Excellence for Research in Water Resources, Energy Systems and Manufacturing. TTU Faculty leverage the strong foundations of undergraduate engineering education to ensure a well-rounded experience for graduate students. Graduate assistantships are competitively priced at a significantly higher rate than the cost of living. Recreational opportunities are plenty with Nashville, Chattanooga, and the Great Smoky Mountain located about an hour's drive away from campus. Prospective graduate students should check <http://www.tntech.edu/graduatestudies> for submitting their application.

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