

CENTERS & LABORATORIES

Construction, Geotechnical and Structural Engineering Laboratories

- Construction Materials Laboratory
- Electrochemistry Laboratory
- Geotechnical Research Laboratory
- Geotechnical Undergraduate Laboratory
- Sensors Laboratory

Transportation and Materials Laboratories

- Advanced Characterization of Infrastructure Laboratory
- Materials Laboratory
- Construction Materials Laboratory
- Materials Science Laboratory

Environmental and Water Resources and Coastal Engineering Center/Laboratories

- Biological Processes Laboratory
- Chemical Processes Laboratory
- Environmental Fluid Dynamics Laboratory
- Environmental Fluids Laboratory
- Environmental Laboratory
- Offshore Technology Research Center (TEES)

Collaborative Texas A&M Transportation Institute/Civil Engineering Centers/Laboratories

- Center for Infrastructure Renewal
- Center for Transportation Safety
- Center on Tolling Research
- Highway Materials Laboratory
- International Center for Aggregates Research

RESEARCH AREAS

Coastal Engineering

- Dredging technology
- Beach nourishment
- Coastal structures
- Wave dynamics

Construction Engineering & Management

- Construction materials
- Construction planning and field operations
- Project development and financing
- Risk management and decision analysis

Environmental Engineering

- Aerosol sources and composition
- Hazardous wastes/remediation
- Renewable energy and products
- Water/wastewater

Geotechnical Engineering

- Earthquake-susceptible soils
- Expansive soils and intelligent compaction
- Scour
- Seafloor interactions with steel catenary risers

Materials Engineering

- Asphaltic and concrete pavements
- Computational modeling of new, recycled and existing materials
- Corrosion within structures
- Fracture and damage mechanics

Structural Engineering

- Building, transportation and offshore structures
- Fatigue and fracture
- Seismic and wind performance
- Smart materials and structures

Transportation Engineering

- Automated vehicles
- Intelligent transportation systems
- Transit systems
- Transportation safety, economics and operations

Water Resources Engineering

- Groundwater
- Hydraulics
- Sustainability
- Water resources planning and management



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