



OCEAN ENGINEERING
TEXAS A&M UNIVERSITY

The Department of Ocean Engineering at Texas A&M University educates students in a broad range of topics encompassing traditional and emerging areas of ocean engineering, conducts research, and serves the public. We prepare graduates for all phases of the work-force such as entering engineering practice, pursuing a graduate degree, life-long learning, and professional development.

Enrollment

Undergraduate (OCEN)	109
Undergraduate (OCSE/L)	95
Master's	36
Ph.D.	36

Faculty

Tenure/ tenured track	9
Full faculty	7
Associate faculty	1
Assistant faculty	1
Senior lecturers	2
Professors of practice	1
Research faculty	3
Professional societies	9
National Academy of Engineering members	1

Laboratory Facilities

College Station

- Center for Dredging Studies
- Marine Dynamics Laboratory
- Ocean Engineering Wave Tank
- Offshore Technology Research Center

Galveston

- Fluid Mechanics Laboratory
- Geotechnical Laboratory
- Gulf Field Studies Laboratory
- Materials Laboratory
- Naval Architecture
- Wave Laboratory



Research Areas & Disciplines

- Advanced Computational Techniques
- Analysis and design of deep water and coastal structures
- Beach nourishment
- Bridge scour
- Coastal engineering processes
- Coastal sediment processes
- Computational ship and submarine hydrodynamics
- Dredged material placement
- Dredging
- Dynamics of offshore structures
- Environmental fluid mechanics
- Floating breakwaters
- Hydroelasticity
- Internal waves
- Laboratory measurement and analysis techniques
- Mooring and riser systems
- Multiphase flow and direct ocean carbon sequestration
- Naval Architecture
- Non-linear wave/structure/wake interactions
- Offshore structures
- Remote sensing of ocean surface
- Renewable ocean energy
- Sediment dynamics
- Shallow flows
- Subsea systems
- Tsunami modeling
- Tsunami propagation and run-up
- Turbulence modeling
- Underwater life support and diving technology
- Unsteady three-dimensional Navier-Stokes equations
- Wave and current interaction
- Wave breaking



Student Organizations

- Coasts, Oceans, Ports and Rivers Institute (CORPI) of ASCE
- Human Powered Submarine (HPS)
- Marine Technology Society (MTS)
- Omega Epsilon (OE)
- Shell Ocean Discovery XPRIZE
- Society of Naval Architects and Marine Engineers (SNAME)

801 Civil Engineering Office Building
3136 TAMU | College Station, TX 77843-3136
979.845.4515

222 Powell Marine Engineering Complex
P.O. Box 1765 | Galveston, TX 77553
409.740.4718



OCEAN ENGINEERING
TEXAS A&M UNIVERSITY

engineering.tamu.edu/ocean