



M.S. in Ocean Engineering

The Ocean Engineering program combines advanced engineering with marine science to prepare students to address ocean-related challenges such as climate-resilient coastal planning, port and harbor security, coastal observation, and infrastructure development. It is designed for students and professionals in engineering, marine science, business or law who want to expand their expertise in the field.

WHAT TO EXPECT

Master Ocean Engineering Skills

- Specialize in coastal engineering, remote sensing or maritime security, and gain the technical expertise to address complex challenges in marine and ocean environments.

Advance Research and Innovation

- Design and lead projects in oceanographic modeling, sensor and instrument development, and sustainable coastal solutions that create new knowledge and benefit society.

Learn with Expert Mentors

- Thrive in a small department setting with personalized instruction, one-on-one mentorship and strong faculty support to develop technical, leadership and problem-solving skills.

Launch a Dynamic Career

- Build adaptability and expertise through strong connections to professional networks, preparing you to succeed in the rapidly evolving ocean engineering field.



FAST FACTS



\$90K
Average
Starting Salary



Multi-Disciplinary
Collaborative
Projects



\$4M+
2024 Research
Expenditures

Build on the University of Miami's **world-class resources**, including the CSTARS satellite receiving facility and the SUSTAIN wind-wave laboratory, to advance your research and expertise.

CAREER PATHS



Engineering and Consulting Firms



Research and Academia



Marine and Defense Industries



Government and Public Sector



UNIVERSITY OF MIAMI
COLLEGE of
ENGINEERING

Learn
More



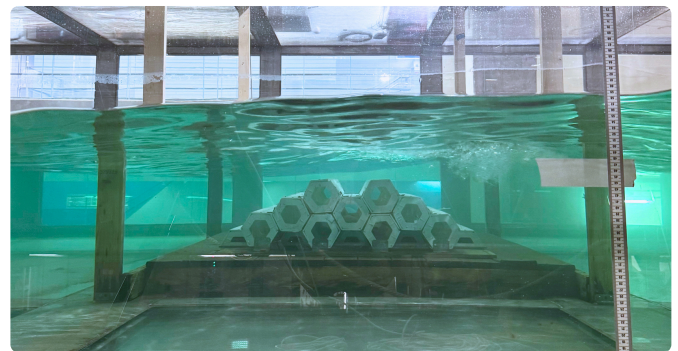
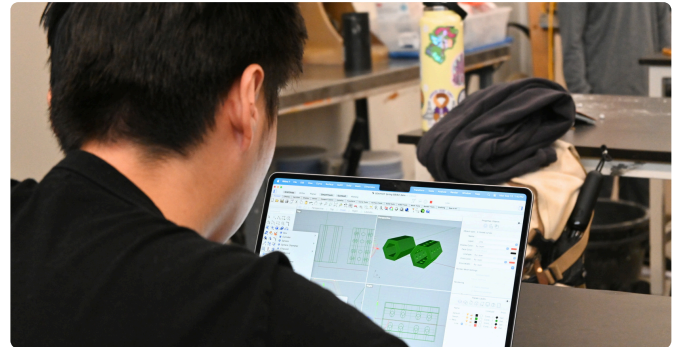
UNIQUE FACILITY FOR EXTREME WEATHER RESEARCH

SUSTAIN: Wind-Wave-Storm Simulator

- Recreate Category 5 hurricane conditions in a transparent acrylic tank for real-time, 3D observation.

Uses include:

- Studying hurricane intensification, surges, and waves
- Modeling extreme weather
- Testing sensors, instruments, and materials
- Developing protective barriers
- Imaging and visualization for science and media



OFFERED TRACKS

- Coastal engineering
- Remote sensing and maritime security

“The Ocean Engineering program gave me access to advanced research facilities and expert faculty. From working in wave tanks to collaborating on real-world engineering projects, the program pushed me to expand my skills and knowledge. It was an experience that shaped both my career and my passion for engineering.”

-Leonard Barrera Allen, '18

MAKE REAL-WORLD IMPACT

Work on groundbreaking projects like SEAHIVE®, a hexagonal concrete system that protects shorelines while supporting local ecosystems. Contribute to research, testing, and improvements on real-world solutions that enhance coastal resilience and sustainability.



For more
information



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