# University of New Hampshire

School of Marine Science and Ocean Engineering

# **From Local Coasts to Global Oceans**

#### The UNH School of Marine Science and Ocean Engineering is

dedicated to the **exploration** of our rapidly changing coasts and oceans. We pursue big questions like how will the relationship between the oceans and our climate affect our future? Can coastal communities become more resilient to storms and flooding? Can we sustainably manage fisheries, farm seafood, and harness innovative sources of renewable energy?

These calls to action take us across scientific disciplines, through communities, into the deep blue, and on to the Arctic Circle. They drive us to map the ocean floor, develop ocean observing satellites, predict the future of a dynamic coastline, and much more. This work leads to vanguard **Science** in the fields of marine biology, oceanography, ocean mapping and engineering, and coastal resilience. Hundreds of students and thousands of citizens join us on this journey of inquiry.

> The need for our research—and the **Solutions** it delivers—has never been more urgent. Communities, businesses, and governments at every scale use our highimpact science to manage ocean and coastal resources as our

population grows and the climate shifts. Our work informs international policy, reduces marine pollution, supports fisheries and economies, and promotes resilient communities and ecosystems. We are at the forefront of the marine research, engineering, and outreach that matters most—here on the Gulf of Maine and around the world.

# Join us marine.unh.edu

## DISTINCTIONS

Interdisciplinary catalyst: Within UNH's Institute for Earth, Oceans, & Space

Top Tier R1 Carnegie classification: "Very high research activity"

12th in the nation: Federal funding for marine science

World leader: Center for Coastal & Ocean Mapping & Joint Hydrographic Center

Leading-edge coastal satellite: \$108M NASA GLIMR program

Aquaculture pioneer: Next generation open ocean research & development

Award-winning alumni: 2019 Shell Ocean Discovery XPRIZE

Thriving citizen science & outreach: 10K+ people engaged each year

National model: Building coastal resilience by focusing federal partnerships on community needs

## **DEGREE PROGRAMS**

Oceanography Ocean Mapping Ocean Engineering Marine Biology

# At a Glance

**Marine School** 

### **UNH PILLARS OF RESEARCH EXCELLENCE**

- **New Hampshire Sea Grant**
- **Piscataqua Region Estuaries Partnership**
- Center for Coastal & Ocean Mapping/ Joint Hydrographic Center
- **Coastal Response Research Center**
- **Ocean Process Analysis Laboratory**
- **Center for Ocean Engineering**
- **Center for Ocean Renewable Energy**
- **Center for Acoustics Research & Education**
- **Atlantic Marine Aquaculture Center**

#### PEOPLE

- 70+ faculty members
- ~100 graduate students
- 200+ marine docents citizens & scientists



# STATE-OF-THE-ART FACILITIES, Vessels, & Laboratories



# **Chase Ocean Engineering Laboratory**

Brings the ocean to campus with state-of-the art wave/tow and engineering tanks that simulate open ocean conditions.



## **Jackson Estuarine Laboratory**

9,000–square foot living laboratory on Great Bay, equipped with research vessels, and wet and analytical labs, and more.



# **R/V** Gulf Challenger

Fifty–foot aluminum research flagship, capable of sampling up to 100 miles offshore year-round.



## **Judd Gregg Marine Research Complex**

3,000–square foot coastal laboratory and 325–foot research pier with berth space for visiting research vessels and under-pier experimental enclosures.



# **Shoals Marine Laboratory**

Founded in 1966, this 99-acre campus on Appledore Island is a leader in marine science education and research.



# **Open Ocean Test Site**

Test site for aquaculture and ocean renewable energy systems that provides a gatheway to the Gulf of Maine.

Dive in marine.unh.edu

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