

The image shows a large, modern building with extensive glass facades. The building is multi-storied and features a mix of blue-tinted glass and white structural elements. In the foreground, there is a paved walkway with a low concrete wall and a planter bed containing dry, brownish plants. Several people are walking on the path. The sky is clear and bright. The text 'Plastics Land to Sea - Global Plastics Forum' and 'May 15, 2023' is overlaid in the top right corner.

Plastics Land to Sea - Global Plastics Forum
May 15, 2023

THE UNIVERSITY OF RHODE ISLAND
COLLEGE OF ENGINEERING

Anthony J. Marchese, Ph.D.
Dean of Engineering
University of Rhode Island

About The University Of Rhode Island

- A land- and sea-grant university, established in 1892, as the Rhode Island College of Agriculture and the Mechanic Arts
- The only public research university in Rhode Island
- 17,000 students in nine Colleges
 - Arts and Sciences
 - Business
 - Education and Professional Studies
 - Engineering
 - Environment and Life Sciences
 - Health Sciences
 - Nursing
 - Pharmacy
 - Graduate School of Oceanography



URI College of Engineering

Engineering at a public, land-grant research university

- 1500 Undergraduate students; 250 graduate students
- Departments:
 - Chemical Engineering
 - Civil and Environmental Engineering
 - Electrical, Computer, Biomedical Engineering
 - Mechanical, Industrial and System Engineering
 - Ocean Engineering
- 8 accredited undergraduate programs and 5 Ph.D. programs

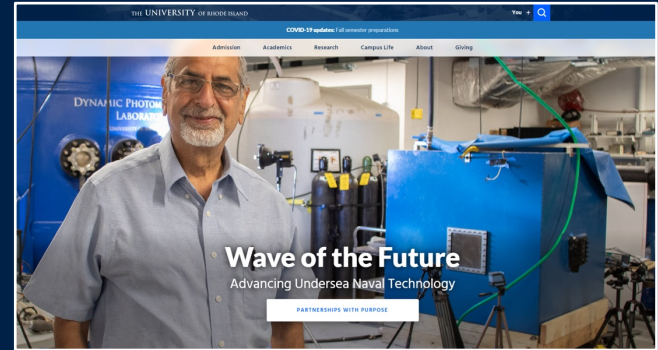


Engineering at a Land-Grant Research University

URI College of Engineering

The College of Engineering at URI recognizes and embraces the role of a world-class engineering program at a flagship state land-grant research university, as guided by the following principles:

- Provide access to quality, affordable education to a diverse population reflective of our region and society.
- Perform world-class research to solve to regional, national and global challenges
- Develop the Rhode Island workforce to compete in economy of the future
- Create jobs through commercialization of intellectual property



URI College of Engineering

Enrollment and Access

- Since 2010, undergraduate enrollment in COE has increased by 50%, PhD student enrollment has increased by 82%, and the diversity of our student population has become more reflective of our region:
 - 48% increase in Black students,
 - 70% increase in Asian Students,
 - 242% increase in Hispanic/Latino students
 - 112% increase in women.
- 33% of our students are the first in their family to go to college.
- Our yield is greater than 50% among highest achieving RI applicants ($3.8 < \text{GPA} < 4.3$)



Aidan Kindopp is a dual Chemical Engineering /French major, works as an undergraduate researcher in the URI NanoBio Engineering Laboratory and is a Division 1 Athlete.

Research and Technology Transfer

- In the past 5 years, annual COE research awards have increased by 210% from \$6 million annually to >\$18.5 Million in FY22.
- Annual research expenditures per faculty of \$182,600.
- Our \$25 Million/year National Institute for Undersea Vehicle Technology has supported 88 research projects by 88 faculty and 106 students to date.
- 14 out of the last 30 faculty hired have received NSF CAREER or ONR Young Investigator Awards!



At the *Undersea Robotics and Imaging Laboratory*, Prof. Brennan Phillips and his students design and fabricate deep sea imaging systems using 3D printers to explore thousands of meters below the ocean's surface.

URI College of Engineering

Workforce Development

- 95% of URI COE graduates report that their plans are secured within 6 months of graduation.
- Top employers include General Dynamics Electric Boat, NUWC, Amgen, Raytheon, Toray, Pfizer, Moderna, RI Energy, Medtronic, Abbot Labs, Boston Scientific, Gilbane
- In 2023, URI COE students were admitted to graduate school at M.I.T. and Stanford.



Ocean Engineering/German major Maeve Story secured a position as a project engineer with Cathie Group because of her experience with offshore wind as a student at URI.

URI College of Engineering

Economic Development and Job Creation



FarSounder CEO and founder Matthew Zimmerman and fellow URI COE alumnus Heath Henley.



URI Ocean Engineering professor Brennan Phillips with Juice Robotics co-founders Christine de Silva and Matt Jewell.



URI Ocean Engineering alum Michael Rock with Ian Owen, co-founder and CEO of Jaia Robotics.

Engineering at a Land-Grant Research University

We Work on Important Problems!



Urgent regional need to address climate impacts on RI infrastructure.



Impact of microplastics on the ocean ecosystem and human health



East coast offshore wind: 763 wind turbines (8 GW) procured and 5,549 (70 GW) planned.

URI College of Engineering

World-Class Facilities



The 190,000 SF Fascitelli Center for Advanced Engineering, which opened in September 2019, is home to the URI College of Engineering.