



# INTRODUCTORY LEVEL UNDERWATER ROBOTICS & ENGINEERING DESIGN

September 22-23, 2024 | OCEANS Halifax | Dalhousie University



## ABOUT THE WORKSHOP

The Underwater Robotics and Engineering Design Professional Development workshop focuses on how to teach the engineering design process using underwater robotics. Participants learn the fundamentals of basic ROV building and experience a variety of hands-on science, technology, and engineering design activities that can be integrated into a class or after school program to reinforce foundational knowledge and skills.

Upon completion of the workshop, all participants should feel confident to lead an engineering design activity focused on ROV building using the **Pufferfish ROV Kit** or comparable parts and components.

## ABOUT THE ORGANIZERS

The MATE ROV Competition is a **pillar program of the Marine Technology Society (MTS)** that uses remotely operated vehicles (aka underwater robotics) to inspire and challenge students to learn and creatively apply science, technology, engineering, and math (STEM) to solve real-world problems and strengthen their critical thinking, collaboration, entrepreneurship, and innovation.

## WHO SHOULD APPLY

Educators who have had introductory exposure to ROV activities or have a background teaching science, technology, engineering, or math. Activities presented in this workshop are appropriate for students in grades 5-12 or equivalent, as well as first-year community college or university students who are new to underwater robotics and engineering design.

**The goal is to provide all participants with the knowledge, skills, and experiences that will enable them to implement these activities during the following academic year.**

## REGISTRATION COST

This workshop is sponsored by the MATE ROV Competition and is fully funded by the Schmidt Ocean Institute and the Nova Scotia Department of Education. If you are interested in attending, submit an application by clicking or scanning the QR code below.

