

Bermuda Institute of Ocean Sciences



Innovations for the Environment

A Training Opportunity with the
Mid-Atlantic Robotics IN Education Program
MARINE

July 4 - 8, 2022
9:00am - 4:30pm

BIOS is seeking nominations from Bermuda's community to identify students between the ages of 14-16 to participate in an intense week-long training course focused on emerging ocean technology. Technology and its ability to collect real-time data about the ocean is critical to the creation and interpretation of environmental models, which are powerful tools for understanding complex environmental problems. During this program, students will engage with different pieces of technology utilized to study above, on and in the ocean. Students will learn the mobilization process for each piece of technology and understand the types of data they collect and how these data can be interpreted. This training opportunity will run in partnership with the Julie Ann Wrigley Global Futures Laboratory at Arizona State University and BIOS's Mid-Atlantic Glider Initiative and Collaboration (MAGIC) laboratory.

Nominations are due by May 13 and student nominees will be interviewed in late May 2022 by a collaborative panel.

The nomination must come from a teacher, mentor or educator outside the formal classroom that can speak to the abilities of the nominees across the following areas:

1. Keen interest in robotics
2. Interest in pursuing a career in engineering or creative technologies
3. Ability to work in a team
4. Ability to utilize a critical thinking and problem-solving skill set
5. Patience and perseverance in tasks
6. Programming skills (eg. C++, Python)
7. Data analytical skills
8. Experience being on boats

Ocean technologies discussed in this training:

- A. Autonomous boats
- B. Autonomous Underwater Vehicle (AUV)
- C. Unmanned Aerial Vehicle (UAV)

The MARINE program is a core component of BIOS's Ocean Academy programs