OCEAN EXPLORATION COOPERATIVE INSTITUTE | EXPLORING THE NATION'S BLUE FRONTIER

OCEAN EXPLORATION TRUST | UNIVERSITY OF NEW HAMPSHIRE | UNIVERSITY OF RHODE ISLAND
UNIVERSITY OF SOUTHERN MISSISSIPPI | WOODS HOLE OCEANOGRAPHIC INSTITUTION

oeci

Dive into the **Bridge to Ocean Exploration (B2OE) Program** with the Ocean Exploration Cooperative Institute (OECI) at the **University of Rhode Island's (URI) Graduate School of Oceanography (GSO)**! Dip your toes into the multidisciplinary world that is ocean science, with opportunities in website development, video/data engineering, media production, and/or science communication.

The OECI (https://web.uri.edu/oeci/) is a unique consortium of top oceanographic institutions: URI, Woods Hole Oceanographic Institution (WHOI), University of New Hampshire (UNH), the University of Southern Mississippi, and the non-profit, Ocean Exploration Trust. They work together to push the boundaries of ocean exploration with research and innovation in remotely-operated and autonomous vehicle operations, virtual engineering connectivity, and ocean science communication and engagement.

A core mission of the OECI is to inspire future generations of ocean scientists and engineers, and support the Blue Economy. The B2OE Program, based out of URI/GSO's Ocean Science Exploration Center, is an experiential program key to advancing this mission. Currently, the OECI is recruiting **up to five students** to participate in this **PAID**, **part-time, experiential learning program,** with the following project pathways:

Computer science and machine learning
Ocean exploration data science
Interactive digital web design
Media production and 3D animations
Science communication and social media

Project Pathway Breakdown- Computer Science, Machine Learning (ML) Video Analysis:
- Contribute to the development of machine learning systems for the analysis of deep sea video data. Computer algorithms are built and trained to recognize characteristics in remotely operated vehicle dive footage that are used to automate highlight clip recognition and increase efficiencies in video data tagging and organization.

- *Useful coursework/experience requested for this project pathway:*
    - Seeking students who have completed at least 1 year at CCRI
    - Suggested courses:
        - Computer literacy, including familiarity with programming languages (e.g Python), markup languages (HTML, XML), operating systems (e.g. Linux) and data structures/algorithms
        - Introduction to Software Engineering, Programming Concepts, Database Design & Management, Technical Math

- *Benefits to BOE Program participation:*
    - PAID, part-time opportunity; up to $17/hour salary.
    - Exposure to cutting-edge ocean science, engineering, and media production technologies and best practices at the ISC and within the OECI.
    - Collaboration with OECI personnel; field trips to tour URI, WHOI, and UNH facilities.
    - Opportunity to remotely participate in expeditions aboard NOAA *Okeanos* and (EV) *Nautilus.*
    - Peer-to-peer interaction with other ocean science and exploration interns with NOAA Ocean Exploration and other OECI partners, including Tuskegee University.
    - Information exchange and networking opportunities with industry professionals during a "Blue Economy Career Fair", March 2023.

In addition to the above mentioned part-time experience, additional program requirements and expectations include:
- Up to 16h/week (November 2022- May 2023)
- Potential for onsite and/or tele-work.
- Weekly tag-ups with mentors to gauge project progress and answer questions (mentors are also available via email for questions, etc. at any time).
- Participation in OECI student events.
- Participation in pre- and post-experience 360˚ evaluation.

Eligibility:
- Currently enrolled CCRI students (undergraduate/associate's degree, and/or workforce certificate candidates)
- Degree, major, or intent to major in a field relevant to the OECI's mission; these can include, but are not limited to: STEM (science, technology, engineering and math), computer science, media production and graphic design, communications, education, and/or business operations/administration.
    - *Preferred (but not required) for this pathway: Computer Studies Students (all concentrations)*

Application Requirements:
- **Interested students must complete the [OECI B2OE online application](#) on or before October 12, 2022.**

- In addition to this application, interested individuals will also be required to submit their current resume.
- Submit 3 professional references listed (who can speak to the applicant's character and professional and/or academic background- this can be a professor, advisor, teacher, community member, work supervisor, mentor, etc.).

Applications will be reviewed and analyzed based on merit and relevant experience. Potential participants will be notified by **October 21, 2022**, for an in-person or virtual interview. Final selections will be made on or before **November 4, 2022**, and candidates will be notified of their program status. **The anticipated program start date, with an on-site orientation at URI's Graduate School of Oceanography campus in Narragansett, RI, will be November 15, 2022.**

Questions? Please contact Holly Morin (holly_morin@uri.edu).