
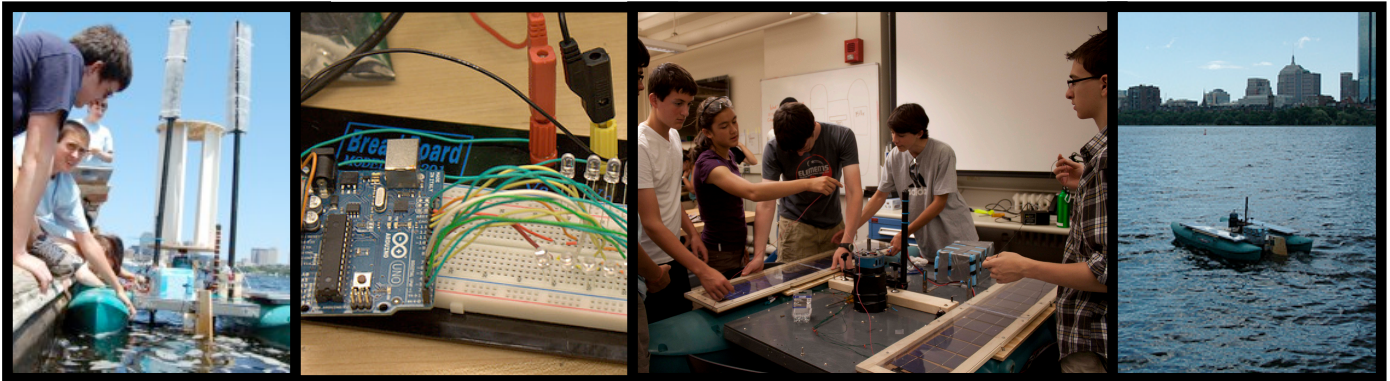


## MIT Sea Grant College Program



THE  
**OCEAN ENGINEERING**  
E X P E R I E N C E

Program Dates: July 29 – August 5, 2012



### Program Overview

The Ocean Engineering Experience (OEX) summer academic program is a weeklong opportunity for students entering 11<sup>th</sup> or 12<sup>th</sup> grade. OEX participants gain in-depth experience in the field of ocean engineering through hands-on design and fabrication experiences as they live, eat, study, and work together on the MIT campus, aiming to solve a real-world engineering challenge.

### The OEX Challenge

Each year, OEX participants are challenged to design and fabricate a marine vehicle or structure. Students are divided into teams to design mechanical and electrical systems, present and defend their design choices, and finally fabricate, test, and troubleshoot their designs. The program culminates in a public demonstration and presentation of the project.

### OEX Activities

Throughout the week, students attend lectures, take part in tours and field trips, and participate in labs and lessons that support and inform their work. Topics, which focus on ocean engineering design and fabrication, include circuits and electronics, microcontrollers and computer programming, mechanical design and assembly, and the challenges of working in marine environments.

Tuition is \$1,400 including room and board. Partial tuition and travel scholarships are available.

**Applications due by ~~March 23<sup>rd</sup>~~ April 5<sup>th</sup>**

<http://seagrants.mit.edu/oex.php>

Kathryn Shroyer  
OEX Coordinator  
Email: [oex@mit.edu](mailto:oex@mit.edu)  
Phone: (617) 715-5148



MIT Sea Grant  
77 Massachusetts Ave.  
E38-300  
Cambridge, MA 02139