

Wade Institute for Science Education

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## Underwater Robotics Workshop for Middle and High School Educators: *Build a SeaPerch!*



Dive into engineering design with the Wade Institute for Science Education!

Friday and Saturday,  
May 8th & 9th, 2020

- **Collaborate with other educators** as you build your own remotely-operated vehicle
- **Explore engineering concepts and practices** to bring back to your classroom
- **Bring along** up to 2 students to help build and use hands-on, minds-on learning to problem-solve and foster teamwork skills

# Underwater Robotics Workshop for Middle and High School Educators: *Build a SeaPerch!*

Join the Wade Institute for Science Education, National Marine Life Center, and Massachusetts Maritime Academy for a 2-day Seaperch Workshop this Spring!

- **Build your own** model remotely-operated vehicle (ROV)
- **Become a pilot** and take it to the bottom of the pool and estuary
- **Discover** how to “hack” your SeaPerch and to modify it for exciting science projects
- **Take back** lots of STEM resources for your classroom
- **Explore** resources from the national SeaPerch program
- **Learn how** to apply for a classroom set of SeaPerch kits
- **Earn** 13 PDPs

The SeaPerch program brings hands-on, minds-on engineering design concepts and scientific principles into the middle and high school classroom. Students build model ROVs from kits using PVC pipe and other easily obtainable materials. During the SeaPerch workshop, teachers and students build and test a SeaPerch. Students who participate in SeaPerch programs become engaged in learning engineering concepts, problem solving, teamwork, and technical applications. Engineering and science investigations using the ROV are explored, as well as citizen monitoring programs.



Curriculum resource materials are provided which support the Science and Technology/Engineering Standards, bringing together basic engineering design skills and the science practices. Concepts incorporated into the curriculum resource materials include marine science, oceanography, biomimicry, ocean engineering, physics, robotics, mathematics and marine related careers.

Bring along up to 2 students to become student leaders for a SeaPerch team at your school!

**Dates:** Friday and Saturday, May 8th & 9th, 2020 (9:00 am - 4:00 pm)

**Location:** Massachusetts Maritime Academy (Buzzards Bay, MA)

**Fee:** \$200 per educator; \$15 per student (up to 2 students per educator)

**13 PDPs are available for this workshop.**

Thanks to partial funding from **Sensata Technologies**, the fee includes a SeaPerch kit, curriculum materials, and lunch both days.

To register, visit [www.wadeinstitutema.org/focus-workshops](http://www.wadeinstitutema.org/focus-workshops)  
For more information email [wadeinstitute@wadeinstitutema.org](mailto:wadeinstitute@wadeinstitutema.org).

Partially funded by:

