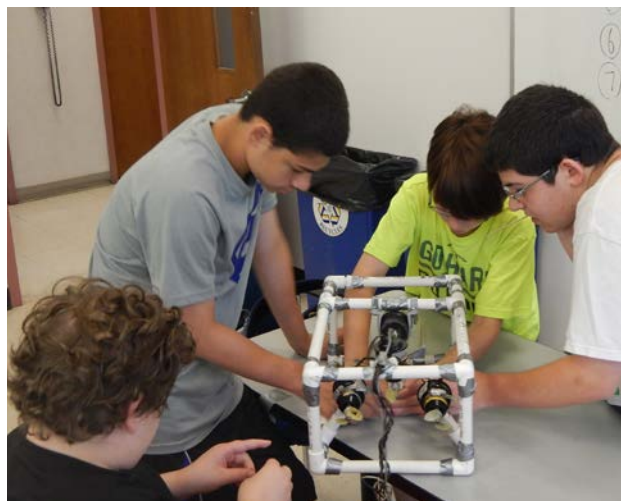


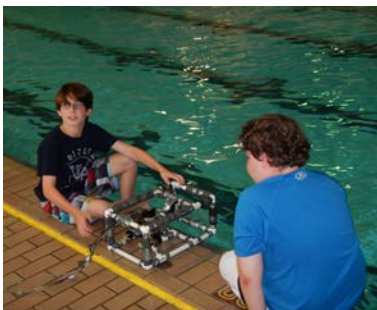
# Design and Build an Underwater ROV

Marine Exploration comes alive as your students become marine engineers to take on this design challenge to build underwater remotely operated vehicle (ROV).



Throughout the project, students will learn about robotics, engineering concepts and technical applications while using math, problem solving skills and teamwork. Building a ROV teaches basic skills in submarine design and encourages students to explore the principles of buoyancy, thrust, lift, and momentum.

Students learn best by doing, and during the process of building the ROV's they will design it with specific tasks in mind that will be field tested, modified and then deployed during a timed competitive challenge. Students will be viewing the ROVs progress via video cameras to simulate the actual experience of "command central." The Challenge fosters sportsmanship, as well as the mastery of STEM concepts.



The program can be scheduled as a single, 2 hour introductory session using ready-to-assemble "kits" or as a series of 3 to 5 sessions for a more in-depth approach. While access to a district pool is not necessary for the single session, it should be considered when scheduling for the series of multiple sessions.

You may also wish to add our unique "Helmet Dive" for the ultimate experience!

## Cost: Introductory ROV:

- Single 2-hour session for up to 25 students per session .....\$700
- Two, 2-hour sessions/day....\$924

**ROV Series:** call for price quote



No Pool? No Problem!  
A small inflatable pool can be used for buoyancy testing!