



Underwater Robotics Teacher Professional Development Workshop

Monday, February 20th, 2017
Ernest Morial Convention Center

The **Marine Advanced Technology Education (MATE) Center** (www.marinetech.org) uses underwater robots (aka remotely operated vehicles or ROVs) as a way to teach students science, technology, engineering, and math (STEM) skills. Designing and building an ROV also challenges students to work as a team, solve problems, and think critically and creatively.

And it doesn't end there. MATE coordinates student ROV competitions that give students the chance to put their education to the test while having fun, making new friends, and learning from each other and professionals from the ocean workplace. Check out <https://vimeo.com/184585932> and <https://vimeo.com/170548699> to catch the action!

Who? Grade 5-12 teachers. No prior experience is required!

What? This workshop will help you understand how to integrate underwater robotics into a science, math, or engineering class or afterschool activity. These activities make learning fun and relevant to real-world problems. They also highlight potential career opportunities and are an excellent way to address teaching standards, including the Next Generation Science Standards (NGSS).

During the workshop, participants will:

- Learn about simple circuits and how a switch operates.
- Create a simple, working control box that can be used to pilot an ROV.
- Learn about MATE ROV competitions and how students can get involved.
- Learn how to advance and gain new skills to construct more complex robots.
- Network with other teachers from the area who share similar interests.
- **Take the ROV that they've built take back to their classrooms!**

Where? Room TBD, Ernest Morial Convention Center, 900 Convention Center Blvd, New Orleans

When? 10:00am—4:00pm on Monday, February 20th. **Lunch is provided!**

How to apply? Visit www.emailmeform.com/builder/form/3bA3xI9D2i for an application. **A limited number of stipends are available to cover substitutes – APPLY NOW!!!**



*This workshop is sponsored by the Marine Technology Society's (MTS) ROV Committee.
To learn more about the MTS ROV Committee, visit www.rov.org*

