



## Teacher Field Experience: Underwater Robotics

The Teacher Field Experience (TFE) program is an immersive field experience for educators to participate in scientific research while developing strategies to incorporate both marine content and biological concepts into their classrooms. TFE Underwater Robotics incorporates STEM education to teach educators how to develop, create, and implement their own remotely operated vehicle (ROV) to use in underwater investigations. Through this hands-on experience, teachers will gain a greater understanding of STEM principles and robotics, use creativity and innovation to create their own device, and apply it in the field to explore an aquatic environment.

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**DATES:** August 9-13 at Shedd Aquarium (Chicago, IL)

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### HOW TO APPLY

1. Form a team of 2-3 teachers
2. Complete the participant application form.
3. Verify your availability for all required dates.
4. Confirm your ability to meet all fee requirements involved.

**Please mail or email completed application. It is recommended to contact the program coordinator to confirm receipt of application.**

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### APPLICATION DEADLINE

Applications are to be completed and postmarked by **May 28th, 2010**. Applications must be mailed or emailed to the program coordinator:

Jackie Formoso  
Shedd Aquarium-Education Department  
1200 South Lake Shore Drive  
Chicago, Illinois 60605

Phone: 312-692-3165  
Email: [teacherservices@sheddaquarium.org](mailto:teacherservices@sheddaquarium.org)

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**PARTICIPANT APPLICATION:** Please type or print legibly with ink.

Applicant's Name: \_\_\_\_\_  
Last First Middle

Mailing Address: \_\_\_\_\_  
Street  
\_\_\_\_\_  
City State Zip Code

Phone Number: \_\_\_\_\_ E-mail: \_\_\_\_\_

School Name and Address: \_\_\_\_\_  
\_\_\_\_\_

Current Grade Level/Subject: \_\_\_\_\_

Emergency Contact: \_\_\_\_\_  
Last First Middle

Emergency Contact Daytime Phone: \_\_\_\_\_ Emergency Contact Home Phone: \_\_\_\_\_



4. What experience do you have teaching STEM topics/principles? (Please provide brief description)
5. What if any experience do you have with robotics, remotely operated vehicles (ROVs) or engineering projects? (Please provide brief description. NOTE: it is NOT necessary to have prior experience working with robotics or engineering)
6. What are you most *unfamiliar* with regarding remotely operated vehicles?
7. What Shedd resources have you utilized? (Check all that apply)
- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Fish Tales newsletter   | <input type="checkbox"/> SEA              | <input type="checkbox"/> Auditorium/Outreach program |
| <input type="checkbox"/> Discovery Boxes         | <input type="checkbox"/> Web site         | <input type="checkbox"/> Adult programs              |
| <input type="checkbox"/> Teacher in-service      | <input type="checkbox"/> Group overnights | <input type="checkbox"/> Field trips                 |
| <input type="checkbox"/> Teacher workshops       | <input type="checkbox"/> Shedd Navigators | <input type="checkbox"/> K-12 Shedd class/lab        |
| <input type="checkbox"/> Educator Open House     | <input type="checkbox"/> Summer camps     | <input type="checkbox"/> Activity guides             |
| <input type="checkbox"/> Other (please describe) |   |  |
8. If Shedd offered an *optional* weekend component to this experience at a later date, would you be interested in attending?
9. Would you and your team be interested in entering a student team into the 2011 ROV Competition in Chicago, IL?