This workshop is designed to acquaint participants with subject matter, educational resources and information on using VEX robots in the classroom and in competitions, as well as career opportunities in the fields of robotics, mechatronics and instrumentation. Participants will work with several robot systems conducting hands-on activities related to these fields and have an opportunity to observe industrial training systems.

Workshop Participants
Participation is open to teachers from grades 3 through 12. It is anticipated that participants will attend from Monday, June 18, through Thursday, June 21, as described in the workshop specifics below. Since there are two VEX competitions – one for elementary/middle school and one for middle/high school – participants will have an opportunity to explore activities that are grade level-specific and aligned to S.C. Academic Standards.

Workshop Benefits
- Professional development certificates that can be used for recertification purposes
- Hands-on activities using VEX robots and curriculum
- A stipend of $200 upon successful completion of the workshop requirements
- An opportunity to become familiar with a robotics curriculum and how robotics aligns with S.C. Academic Standards

Workshop Specifics
- The workshop will begin at 9 a.m. Monday, June 18, and end at 4 p.m. Thursday, June 21.
- Participants will divide into teams based on grades taught.
- All participants will be required to be in attendance for the entire workshop.
- Every effort will be made to allow teams to work on projects that are appropriate to their particular instructional areas and any possible competition plans.
- Participants residing more than 50 miles from the college may submit a request for travel and lodging support. There are limited funds available for this purpose.

Eligibility
- Certified teachers (elementary school through high school)
- Teaching responsibilities in a STEM area (science, technology, engineering and mathematics) and a desire to include robotics in their courses. Project Lead the Way (PLTW) teachers or teachers considering the addition of PLTW at their school are encouraged to apply.

Workshop Requirements
- Participate in all activities. Develop an implementation plan for using robotics at your school.
- Share information with teachers and students at your school.
- If possible, host/coordinate a presentation/workshop on robotics or mechatronics by OCtech faculty during the 2018-2019 academic year.

Application Deadline – April 20, 2018

This activity and/or material is supported by the National Science Foundation under Grant No. 1501828 NSF-ATE RAMP (Advanced Technology Education in Robotics and Automated Manufacturing Program).
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Attach a short narrative discussing each of the following:
1. Your interest in STEM education, including your interest in robotics
2. A description of any formal or informal experience you have had with robotics
3. The course(s) you teach that could be related to robotics and any afterschool or enrichment opportunities that might include robotics

Email, fax or mail your completed application to:

Linda L. Payne, Ph.D.,
Project Director, NSF-ATE RAMP
Orangeburg-Calhoun Technical College
3250 Saint Matthews Road
Orangeburg, South Carolina 29118
Fax: 803-268-2593
Email: paynell@octech.edu

Send questions to:
Dr. Linda Payne, 803-268-2590 or paynell@octech.edu
More information on NSF-ATE RAMP (Robotics and Automated Manufacturing) can be found at:
http://www.octech.edu/about/grant-resources