



The Greater Southern Tier BOCES Science/STEM Resource Center provides comprehensive, packaged science and STEM (Science, Technology, Engineering and Math) kits to elementary, middle and high school classrooms in participating school districts.

This service provides complete curriculum packages and materials that meet New York State Science Learning Standards. We also package curriculum and kits to meet the needs of integrated STEM Classes. These kits include: VEX Robotics, Underwater Robotics (Remotely Operated Vehicles) Low Tech Engineering, Forensics and Nanotechnology.

This service provides access to materials, and curriculum so that teachers can improve the teaching and learning in science. These all inclusive kits contain everything needed for a positive, hands-on, inquiry-based science lesson or unit.

The GST STEM/Science Resource Center (Co-Ser 527) service works in concert with the GST BOCES Regional STEM Program STEM Curriculum Mentor Service (Co-Ser 525). This STEM Mentor Service provides comprehensive monthly professional development and job embedded support on an FTE basis to teachers that enables them to implement the units and kits provided through the Science Center as intended.

#### **Professional development includes:**

- Monthly training for each unit in the kit
- Teachers participate as students would, completing the investigations from each unit
- Regional cohort experience within the consortium of all participating districts
- In-class/job-embedded support provided by a STEM Curriculum Mentor
- Use of BOCES Science/STEM materials and curriculum
- 24/7 access to curriculum resources and consultation through a virtual professional learning community
- Teaching tools and strategies to make explicit connections between multiple content areas

#### **Professional development instructional focus includes:**

- Opportunity for students to make sense of skills and content in real world contexts using the STEM kits and materials
- Inquiry-based Instructional Strategies
- Collaborative learning strategies and creating a culture of inquiry
- STEM Notebooking and writing in the content area
- Multisensory Methods
- Balanced assessment system
- Student discourse and reflective thinking

For more information specific to the curriculum and kit materials please visit <http://www.gstboces.org/stem/>