

Inspiring students, one robot at a time.

RESEARCH HIGHLIGHTS

The Robotics Education & Competition Foundation provides evidence-based robotics programs that cover Science, Technology, Engineering, & Math all at once!

FUTURE STEM LEADERS

As the world grows increasingly complex, the need for individuals equipped with the knowledge and skills to tackle tough problems by gathering information, evaluating it, and presenting effective solutions continues to increase. Still, relatively few students are proficient in the core subjects of science, technology, engineering, and

mathematics (STEM) and even fewer express interest in pursuing these fields beyond high school. Increasingly, educators and students alike seek hands-on, sustainable, and cost-effective approaches to help engage young people and maintain their interest in STEM through elementary school, middle school, high school, and beyond.

GLOBAL REACH



1 million STUDENTS



24,000 TEAMS



61 COUNTRIES

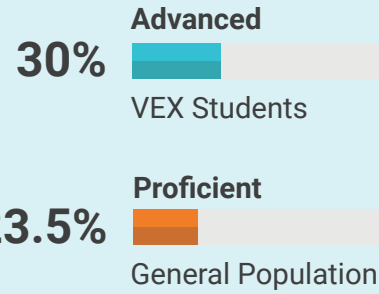
RESEARCH STUDIES



VRC students report positive growth in creative problem-solving, seeing possibilities and opportunities in design challenges.

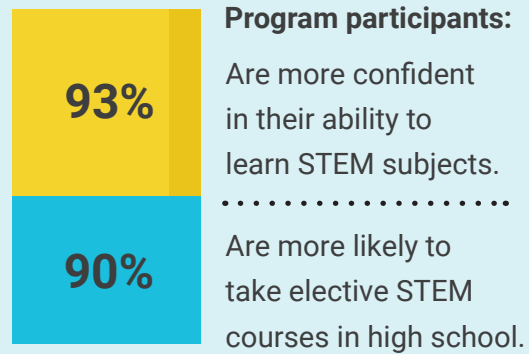
Source: Georgia Institute of Technology - An Evaluation of the VEX Robotics Competition

PROGRAMS



Program participants performed better in math than their peers. Students in grades 6-10 performed higher than their peers on math exams.

Source: Worcester Robotics Consortium

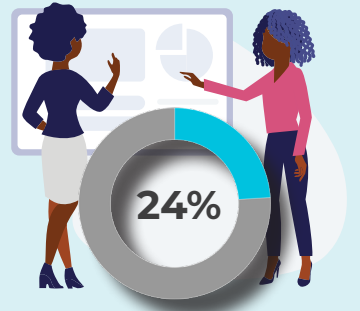


Source: Upfront Consulting 2012 Evaluation Report



WORKFORCE

Students learn valuable programming skills that prepare them to enter the STEM workforce.



Currently, women account for only 24 percent of the STEM workforce, and the number in leadership decreases as the level of leadership increases.*

*Million Women Mentors

Nearly 2.5 Million STEM jobs in the U.S. are unfilled.*

*ssec.si.edu/stem-imperative

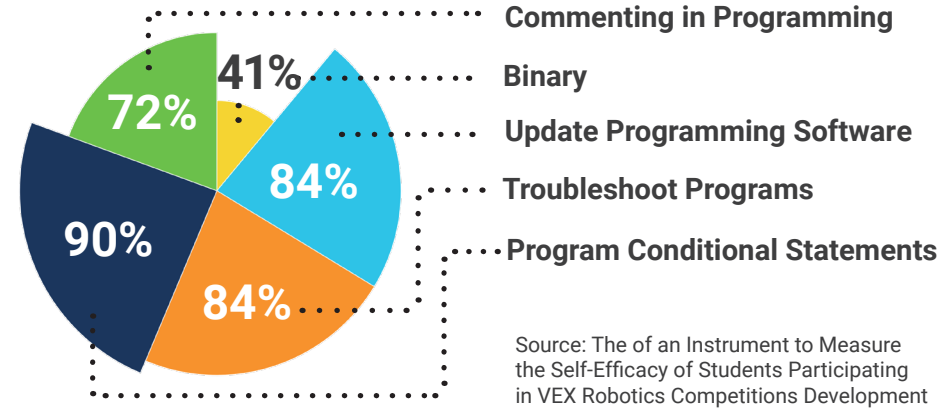


In 2018, less than 1% of Native American students took the computer science principles AP exam, out of 70,864 students total.*

*College Board

88% of students participating in robotics are more interested in pursuing a career in STEM.*

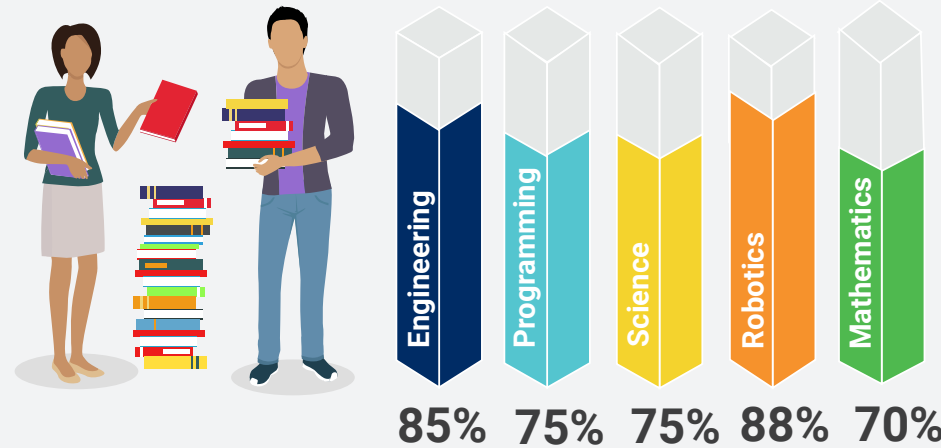
*Georgia Institute of Technology - An Evaluation of the VEX Robotics Competition



Source: The of an Instrument to Measure the Self-Efficacy of Students Participating in VEX Robotics Competitions Development

COLLEGE READINESS

VEX Robotics students increase interest in stem careers as a result of their participation in the program:



Source: Worcester Robotics Consortium

JOIN OUR COMMUNITY

Discover what the REC Foundation can do for your school, students and business. We are committed to implementing programs that help active learners develop needed skills in STEM fields-literacy, innovation, and within the future workforce.

Let's start our partnership! Start a team, volunteer at a local event, or become a sponsor. Visit roboticseducation.org today to learn more.

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