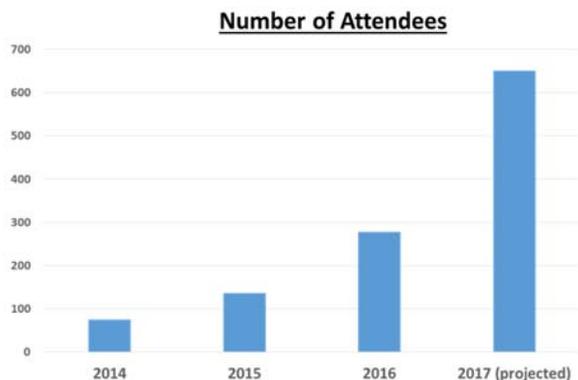


STEMConnect provides opportunities for sponsors to support STEM directly, mentoring experience and revenue for the team, an educational summer program option for parents, and most importantly, an enriching and inspiring experience for all of the students—it's a win all around.

Our Growth



Partners:  **Breakthrough Austin**
CREATING FIRST-GENERATION COLLEGE GRADUATES



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To learn more about the STEMConnect program, scan the QR code below or visit frc2468.org/STEMConnect.



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STEMConnect is a partnership between *FIRST*® Teams and corporate sponsors that offers STEM-based programs on-site for children of employees





LEGO® Mission to Mars

This exciting space exploration themed material contains over 30 hours of activities consisting of: seven Challenge Missions, nine Learning Missions and one Basics of Gears project. Each mission and project is a fun and engaging STEM learning opportunity. An additional three research projects, co-developed with space experts, provide rich opportunities for students to explore and create innovative solutions to current space exploration topics.

Students work in small groups to build and program their robots to address various challenges. The projects are structured so that students work in an open-ended, investigative and fun environment. No prior knowledge of robotics is required. This program is targeted at 3rd–5th grade students.

LEGO® Waterbotics

Teams of students work together to design, build, program, test and redesign underwater robots, made of LEGO® and other components. Students engage in a series of design challenges or "missions" that gradually increase in complexity and ultimately lead to a fully functional underwater robot capable of maneuvering in a three-foot deep pool. This introduces students to the concept of iterative design and demonstrates the value of testing and redesign. This program is targeted at 7th–10th grade students.



VEX IQ Challenge

This program provides a hands-on introduction to the engineering skills of design, build, program and test. Students learn a simple online 3D design and 3D printing tool. They discover how to make toys, prototypes, Minecraft models, jewelry and much more. Students also build and program a robot using the VEX IQ platform, which is used by thousands of robotics programs around the world to teach engineering principles. The tele-operated robot is used in a variety of challenges and competitions through the VEX Challenge program, which allows students to experience first-hand the thrill of competitive robotics while learning STEM principles. This program is targeted at 6th–8th grade students.