



FIRST TECH CHALLENGE



AT-A-GLANCE

“People should get involved in *FIRST*® Tech Challenge because it’s a great way to make real-world connections with people in industries relating to STEM and to gain real-world experience in those fields.”

» DANIEL MILLER, MEMBER,
FIRST TECH CHALLENGE
TEAM 3550, “BETA”

Team demographics

- Young people, ages 12-18 (Grades 7-12)
- Up to 15 students per team
- 2 to 3 adult mentors per team

Events

- Events are exciting and fast-paced, and offer opportunities to connect with students/teams from diverse backgrounds
- 500 official competitions worldwide
- More than 15 countries
- Up to 48 teams per regular season event

The game

- In the 2018-2019 game – ROVER RUCKUS Presented By Qualcomm – teams work in alliances to score points by descending from the lander, collecting minerals from the crater, and sorting and scoring the minerals in the cargo hold of the lander. Alliances also earn points by positioning their team marker.

The robot

- Starting maximum dimensions: 18" W x 18" L x 18" H

The robotics kit

- Powered by Android technology
- Professional-quality software options
- 11 motors, 9 sensors, 2 game controllers, wireless communications, metal gears, and all the building materials you need

The field

- Playing area: 12' W x 12' L
- New game elements are introduced every year

The awards

- **Inspire Award** – Team that best exemplifies the spirit of the *FIRST* Tech Challenge and acts as an ambassador for *FIRST* in its community
- **Rockwell Collins Innovate Award** – Team with the most ingenuity and inventiveness
- **Design Award** – Team with the most compelling industrial design elements
- **Motivate Award** – Outstanding team spirit and enthusiasm
- **Connect Award** – Team most connected to the local and engineering community
- **Think Award** – Team that best manages the engineering design process
- **Control Award** – Team that uses sensors and software to enhance the robot’s functionality on the field
- **Promote Award** – Challenges teams to submit a high quality 60-second PSA (Public Service Announcement) based on an annual theme
- **Compass Award** – Teams submit a video nominating an outstanding coach or mentor
- **Winning Alliance Award** – Alliance that wins the final elimination rounds
- **Finalist Alliance Award** – Alliance in the final match of the competition

GET INVOLVED!

Join or start a team in your area



Sponsor a team, event, or local *FIRST*[®] program



Become a team mentor or coach



Volunteer to fill over 100 roles

FOR INFORMATION ABOUT *FIRST* IN YOUR AREA:

www.firstinspires.org/contactus | (603) 666-3906 | (800) 871-8326



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