



FOR INSPIRATION AND  
RECOGNITION OF  
SCIENCE AND TECHNOLOGY



Dubbed a varsity Sport for the Mind,™(FRC) combines the excitement of sport with the rigors of science and technology. Under strict rules, limited resources, and time limits - teams of students are challenged to build and program a robot to perform prescribed tasks against a field of competitors, to raise funds, design a team “brand,” and hone teamwork skills. It’s as close to “real world” engineering as a student can get. Industry mentors volunteer their time and talents to guide each team.

- ✓ Design, fabricate, build, and program a robot to compete in a FIRST designed game
- ✓ Work alongside professional engineers
- ✓ Learn to use sophisticated hardware and software
- ✓ Develop skills in design, project management, programming, business, and strategic thinking
- ✓ Work as part of a team to accomplish common goals
- ✓ Gain marketable on-the-job type of experience
- ✓ Learn to effectively manage resources
- ✓ Develop leadership skills
- ✓ Qualify for over \$22 million in college scholarships
- ✓ Participate in local, official event



*“To transform our culture by creating a world where science and technology are celebrated and where young people dream of becoming science and technology leaders.”*

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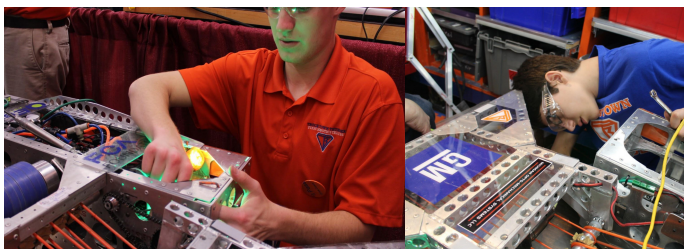
FIRST National: [usfirst.org](http://usfirst.org)

FIRST in Michigan:

[firstinmichigan.org](http://firstinmichigan.org)



Kickoff	Season Ends	Team Size	Sign Up
First Sat. in January	End of May	No Limit	Brandon HS reg. (Spring)



# FIRST® LEGO® LEAGUE JR.

# FIRST® LEGO® LEAGUE

# FIRST® TECH CHALLENGE

# FIRST® ROBOTICS COMPETITION



Jr.FLL captures young student's inherent curiosity and directs it toward discovering the wonders of science and technology. This program features a real-world scientific concept to be explored through research, teamwork, construction, and imagination. Guided by adult Coaches, teams use LEGO® bricks to build a model that moves and develop a Show-Me Poster to illustrate their journey. Teams can form within schools, neighborhoods, or other organizations. Parents and/or teachers usually fill the role of team coach.

Students are immersed in real-world science and technology challenges. Teams design their own solution to a current scientific question or problem and build autonomous LEGO robots that perform a series of missions. Through their participation, children develop valuable life skills and discover exciting career possibilities while learning that they can make a positive contribution to society. Teams can form within schools, neighborhoods, or other organizations. Parents and/or teachers usually fill the role of team coaches.

FTC is designed for students to compete head to head using a sports model. Teams of students design, build, and program their robots to compete in an alliance format against other teams. Robots are built using a TETRIX® platform and Android based controller, which are reusable year-to-year. Teams develop strategy and build robots based on sound engineering principles. Teams can form within schools, neighborhoods, or other organizations. Parents and/or teachers usually fill the role of team coaches.

- ✓ Design and build a challenge-related model using LEGO components
- ✓ Create a Show-Me poster and practice presentation skills
- ✓ Explore challenges facing today's scientists
- ✓ Discover real-world math and science
- ✓ Begin developing teamwork skills
- ✓ Choose to participate in local events called Expos (usually in November - December)
- ✓ Engage in team activities guided by Jr.FLL Core Values
- ✓ Learn to work collaboratively guided by mentors and parents

- ✓ Take on a Challenge composed of three elements: the Robot game, Project, and FLL Core Values
- ✓ Create innovative solutions for real world challenges as part of their research project
- ✓ Strategize, design, build, program, and test a robot using LEGO MINDSTORMS® technology
- ✓ Apply real-world math and science concepts
- ✓ Become involved in their local and global community
- ✓ Participate in local events
- ✓ Engage in team activities guided by FLL Core Values
- ✓ Develop presentation and public speaking skills
- ✓ Learn to work collaboratively guided by mentors and parents

- ✓ Design, build, and program an 18"X18"X18" robot
- ✓ Make the connection between classroom lessons and real-world application
- ✓ Experience science, technology, engineering fields as potential career choices or areas of study
- ✓ Apply and document the engineering process
- ✓ Get hands-on programming and rapid-prototyping experience
- ✓ NEW! Cutting edge Android based platform and Java programming
- ✓ Develop problem-solving, organizational, and team building skills
- ✓ Work collaboratively with professionals in their field
- ✓ Compete and cooperate in alliances at local events

Kickoff	Season	Team Size	Cost Per Team
Sept. 26th	Weekly; 10 Weeks	6 students	\$50 reg. fee + \$230 kit

Kickoff	Season Ends	Team Size	Cost per Team
August	Dec. 19th	10 students	\$225 reg., \$514 for Kit

Kickoff	Season Ends	Team Size	Cost
Sept. 10	End of Dec.	15 students	\$1,428 for kit/reg.

