

THE OFFICIAL CHAMPIONSHIP & SEASON OVERVIEW



EXCEED YOUR EXPECTATIONS

FIRST ROBOTICS COMPETITION Grades 9-12

68,175 HIGH-SCHOOL STUDENTS ON 2,727 TEAMS

TECH CHALLENGE

Grades 7-12

38,000 MIDDLE AND HIGH-SCHOOL STUDENTS ON **3,800** TEAMS

FIRST. LEGO. LEAGUE

Grades 4-8

237,480 9-14* YEAR-OLDS ON 23,748 TEAMS *9-16 outside North America



Grades K-3

24,000+ 6-9 YEAR-OLDS ON 4,000+ TEAMS









FIRST® Robotics Competition (FRC®) teams from 17 countries participated in 40 Qualifying Competitions, 4 Qualifying Championships, 54 Regional events, and the FRC Championship in St. Louis, Missouri. Team members were eligible for more than \$20 million in college scholarships from over 180 providers.



FIRST® Tech Challenge (FTC®) teams from 16 countries participated in 246 Meets, League Championships, and Qualifying Tournaments; 59 Championship Tournaments; 4 Super-Regional Championship Tournaments; and the FTC World Championship in St. Louis. Team members were eligible for more than \$13.5 million in college scholarships from over 130 providers.



FIRST® LEGO® League (FLL®) teams from over 80 countries participated in 994 qualifying events, 135 Championship Tournaments, and the FLL World Festival in St. Louis. Team members were awarded recognition trophies and medallions. Next season, FLL teams will explore learning and redesign how we gather knowledge and skills in the FLL WORLD CLASS $^{\mbox{\tiny SM}}$ Challenge.



Junior FIRST® LEGO® League (Jr.FLL®) teams from 13 countries participated in 100+ regional Expos and the Jr.FLL World Festival Expo in St. Louis. Team members were awarded recognition trophies and medallions. Next season, teams will explore the future of learning in the Jr.FLL THINK TANKSM Challenge.





FANTASTIC FACTS*

Youth participants
Mentor/Coach/Volunteer roles filled150,000+
Number of hours donated by Volunteers 10,000,000+
U.S. States participating50
Countries participating80+
Scholarships availableMore than \$20 million in scholarships offered by 180+ Scholarship Providers
Sponsors3,500+
Number of robots constructed30,000+
Growth of FIRST participation (over 2013) 16%
Opportunities for a meaningful experience Limitless
*Based on year-end estimates

FIRST participants are many times more likely to:

- Attend college
- Major and pursue careers in science or engineering
- Volunteer in their communities
- Secure internships
- Mentor students
- Become outstanding citizens

In college, **FIRST** participants are many times more likely to:

- Secure internships
- Pursue careers in engineering
- Minority FIRST participants are more than twice as likely and female participants are four times as likely to study science and engineering

Source: Brandeis University "More Than Robots" Evaluation

CELEBRATING THE "CS" OF CULTURE CHANGE

As FIRST celebrates its 25th anniversary. the evidence of real cultural change — a world where STEM disciplines (science, technology, engineering, and math) are respected and showcased — is everywhere. As FIRST continues to grow and spread its mission of change globally, tens of thousands of kids are being exposed to the wonders, excitement, and potential career opportunities of science and technology.

Through its innovative and unique Progression of Programs, young people ages 6 to 18 are introduced to and immersed in an inclusive, collaborative community that helps them build competence, confidence, courage, and lifechanging work skills. Guided by adults who volunteer their time and resources, over 34,000 teams in more than 80 countries are challenged to learn and creatively apply real-world math and science concepts through innovative projects and robotics competitions. In the process, STEM passions are ignited and they are set on a course to become tomorrow's much-needed science, technology, and business leaders.

Thanks to an army of committed Mentors, Coaches, Sponsors, Alliances, and Volunteers, the magic of FIRST is showing real impact on education, technology, business, and even Hollywood.

FIRST Co-Chairs Sheri McCoy and Bob Tuttle invite you to witness some examples of cultural change, inspired by FIRST, that will help make a better world for us all.



VIEW THE FULL SHOWCASE PRESENTATION: HTTP://BIT.LY/1MGUCMX





COMMITMENT

VIRGINIA ALBANESE

FIRST Strategic Partner, President & CEO, FedEx Custom Critical

Maybe some of the students we've seen this week will be future FedEx problem-solvers. Programs like FIRST help to engage our children's minds and build the next generation of engineers, innovators, and leaders. Since 2002, FedEx has transported approximately 11 million pounds of Kits of Parts and robots. But we look at this beyond moving a shipment from Point A to Point B. We see this as an investment in the future. Our support for FIRST underscores the FedEx belief that access to knowledge — particularly in the STEM fields — leads to opportunity.

CREATIVITY

ANANYA RAJAGOPAL

FLL and FTC Alum, current FRC team member;

Society of Manufacturing Engineers "Future Leader in Manufacturing"

Before FIRST, I had never really thought about science or technology. In my FIRST LEGO League team, I was shy, but the team forced me out of my shell. I became the project manager. Our team won the FLL Global Innovation Award by developing an "erasable bar code" so consumers could see when their food is no longer safe, and we applied for a patent. I have since moved on to FIRST Tech Challenge and FIRST Robotics Competition, where I have learned to program C++ and Java, and how to solve complex problems. I believe FIRST opened up my eyes to the excitement of engineering.

COMPETENCE

JOE PERROTTO

FTC Affiliate Partner & Game Design Committee Member

Students on FIRST Tech Challenge teams gain competence through hands-on programming, engineering, and problem solving, and quickly become confident in themselves and their abilities. Stina, for example, was a shy, quiet member of FTC Team "Moe 365." However, by the time she graduated, her experiences had taught her to be confident when talking to others and sharing her ideas; and how to take the reins of leadership. She is now an engineering student at the University of Tennessee and says FTC equipped her for success.

COURAGE

FREYA WILHELM

Member of FRC Team 4263 "Cyber Dragons" (via video)

I had a lot of challenges: substance abuse, relationship problems, social skills, no direction in my life. Then I joined a FIRST team. I started learning to use power tools and working with dangerous equipment, so I realized I can't show up without being sober because I'm just putting myself and others at risk. It really helped me stop abusing substances. This year, as a team captain, I have to help people come to agreements, something I never thought I could do. Now, I want to go to college for mechanical engineering. FIRST really changed my life.

COURAGE

JAVIER HERNANDEZ-GALLEGOS

FRC Mentor

After three years of sponsoring Mexican FIRST Robotics Competition teams, my company, Peñoles, found that FIRST is a complete life experience for our kids. Most of the students have to work to help support their families, live in dangerous communities, and travel up to three hours to go to school. We are blown away by their courage — to accept a technology challenge in an environment where computers, smart phones, or tablets are not available; to ride a bike home for two hours in the middle of the night; to work hard with Mentors to learn life skills like how to eat using silverware as well as teamwork, respect, and responsibility; to believe that their pre-conceived destiny can be radically different.



CONFIDENCE

DEBRA WINTER

Assistant Superintendent, Longwood Central School District, N.Y.; FIRST parent

As an administrator, I am here to tell you simply that FIRST is ahead of its time in preparing our children both for college and for careers. I want you all to know the difference you are making in providing an experience for students that literally changes their lives. Twelve years ago, I approved the request for a FIRST Robotics Competition kit. It was the best \$5,000 expenditure I have ever approved, as the program has dramatically improved our students' readiness for college and the work force.

COMMUNITY

KEVIN ROSS

FIRST Regional Director; Microsoft (retired)

Nurturing aspiration is a long-term commitment requiring patience, mentorship, and community. We all aspire to be accepted and valued — to be part of a community. FIRST is more than an organization — it is a very special, very committed community. It provides opportunities for our community members, not just students, to take on leadership roles. They opt to be part of a larger group of people who are genuine, passionate, and selfless with their time.

COMMUNITY

APRIL PATRICK

Ir.FLL Coach; Writer, Director & Producer

My 9-year-old son needed more challenges. A friend suggested Junior FIRST LEGO League, but no teams were found in our Harlem neighborhood. I put out feelers and volunteered my husband as Mentor. Word spread quickly and help arrived from families from all walks of life — an astrophysicist, a LEGO educator, a member of Queens Hall of Science — wow! Their passion for our kids' success has been heartwarming, and profound. We ended up with three teams and started the first Junior FIRST LEGO League of Harlem.

CULTURE CHANGE

GUSTAVO MENDOZA

Member of FRC Team 4355 "CPBOT," Mexico

We are proud that our team now has confidence and pride: 75 percent of our team members have decided to study engineering — a first for our school. We are proud to teach little kids in our community about robotics and tell them to continue their studies. We are proud that we are an example to other young people in our community. We thank FIRST for the opportunity to be here today.

COLLABORATION

DR. WOODIE FLOWERS

FIRST Executive Advisory Board Chair

FIRST has a 25-year track record showcasing the value of collaboration. Team members collaborate among themselves and with their Mentors. Teams collaborate with other teams. World-class companies collaborate to bring their most advanced technology to FIRST students, as well as sponsoring FIRST activities around the world. FIRST is having an enormous impact thanks to all of you — a committed, courageous community inspiring confidence and competence in our young people. Thanks to you, culture change is happening!

CELEBRATION

DON BOSSI

FIRST President

FIRST is an amazing Volunteer-driven organization. Last year alone, FIRST benefited from more than 8.8 million Volunteer hours — that's the equivalent of 4,200 full-time Volunteers working 40 hours per week on behalf of FIRST. We also have over 3,500 Sponsors, more than 200 of whom are among the Fortune® 500, and more than \$20 million in college scholarships. We definitely deliver bang for your buck!

Speaker comments are summarized from 2014 FIRST Championship Showcase presentation.





BARACK OBAMA

President of the United States

"For 25 years, [FIRST has] inspired the young and the young at heart to imagine bigger, build better, and pursue careers in science, technology, engineering, and math... It is the creativity and talent of young people like you that makes me so confident our best days lie ahead."

AMY KULE

Group Vice President, Macy's Parade and Entertainment Group

"I've been impressed and inspired by you all. Continue to think bigger, think smarter, have a great future, and save the world."

VIRGINIA ALBANESE

President & CEO, FedEx Custom Critical

"Programs like FIRST help to engage our children and their minds, and they build the next generation of engineers, of innovators, and of leaders. Our support of FIRST underscores the FedEx belief that acknowledges that access to knowledge, particularly in the STEM fields, leads to opportunity."

MATT GROB

Executive Vice President and Chief Technology Officer, Qualcomm Incorporated

"Qualcomm is proud to recognize these amazing students they are our future — and they will help create the next big mobile inventions and opportunities."

LYNN TILTON

Founder and CEO, Patriarch Partners

"I stand at the crossroads between history and the future, and manufacturing and technology. Every day, I need to find a way to reinvent what [my] companies do. So why am I here? Because you are the future."

Program Executive for Solar System Exploration, NASA

"Your future employers are looking for the skills that you're gathering already. Not just the technical skills, but the leadership skills, the teamwork skills, the problem-solving skills, the professionalism skills...The problems you are solving are fun, exciting, and cool; but most important, they're real."

will.i.am

STEM Education Advocate

"If you want a peek at the future, you come here to the FIRST Championship. And when I say future, I mean future leaders, future inventors, and future problem solvers."

DEAN KAMEN

Founder, FIRST

"This country celebrates sports and entertainment, but wealth is not created by these ventures; it is the result. It's a passion for science, technology, and innovation that has allowed these industries to prosper. Take what you have learned here and solve the world's problems."

FIRST SPONSORS

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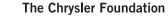


















VISION

"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."

Dean Kamen, Founder

MISSION

To inspire young people to be science and technology leaders, by engaging them in exciting Mentor-based programs that build science, engineering, and technology skills, that inspire innovation, and that foster well-rounded life capabilities including self-confidence, communication, and leadership.

IMPACT

FIRST participants are significantly more likely to attend college, twice as likely to go on to major in science or engineering, and three times as likely to major specifically in engineering.

SAVE THE DATES

EDWARD JONES DOME, St. LOUIS, MISSOURI

APRIL 22-25, 2015 | APRIL 27-30, 2016 | APRIL 26-29, 2017



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