



What's *FIRST*®?

**FIRST**  
LEGO  
LEAGUE JR.

**FIRST**  
LEGO  
LEAGUE

**FIRST**  
TECH  
CHALLENGE

**FIRST**  
ROBOTICS  
COMPETITION

# FIRST® Is...

*Inspiring youth to become science & technology leaders & innovators,*  
by engaging them in exciting, experiential, mentor and project-based programs  
that teach science, technology, engineering, and math (STEM) skills, inspire  
innovation, and foster well-rounded life capabilities.

## FIRST LEGO LEAGUE JR.



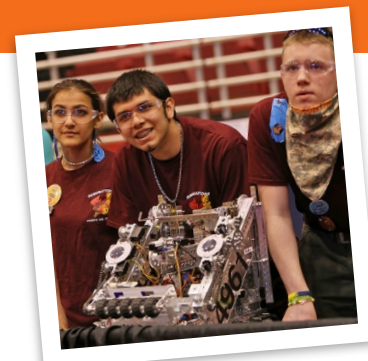
Grades K-4

## FIRST LEGO LEAGUE



Grades 4-8

## FIRST TECH CHALLENGE



Grades 7-12

## FIRST ROBOTICS COMPETITION



Grades 9-12



# ***FIRST***<sup>®</sup> Promotional Video

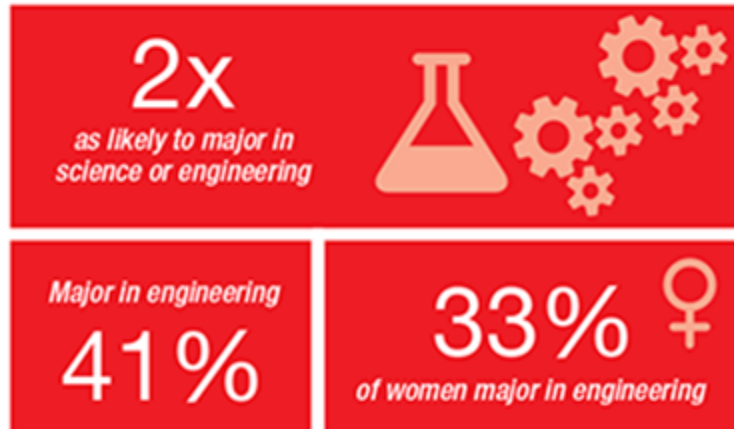
<https://youtu.be/i1QyM9WTF18>



# FIRST® IMPACT

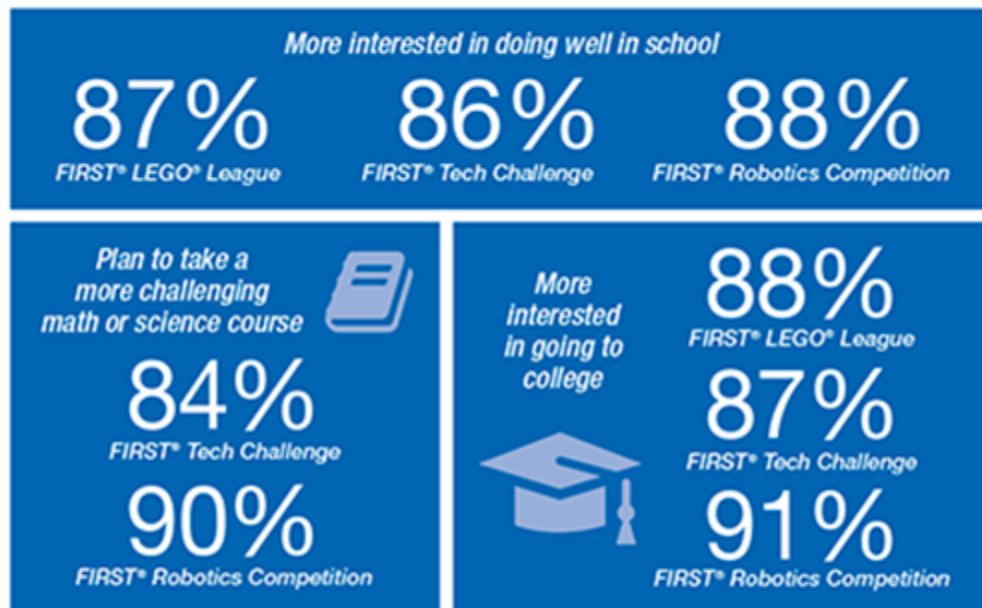
10 years of evaluation data indicates that with participation in **FIRST®** team members are:

## STEM MAJOR CITED BY FIRST PARTICIPANTS



Source: Brandeis University, 2005 Evaluation of FIRST® Robotics Competition Alumni

## SCHOOL ENGAGEMENT INCREASES FOR FIRST PARTICIPANTS



Source: Brandeis University, 2011 FIRST® Tech Challenge – FIRST® Robotics Competition Evaluation and 2013 FIRST® LEGO® League Evaluation

## 21ST CENTURY WORK-LIFE SKILLS GAINED BY FIRST PARTICIPANTS



Source: Brandeis University, 2011 FIRST® Tech Challenge – FIRST® Robotics Competition Evaluation and 2013 FIRST® LEGO® League Evaluation

## FIRST ALUMNI IN STEM CAREERS

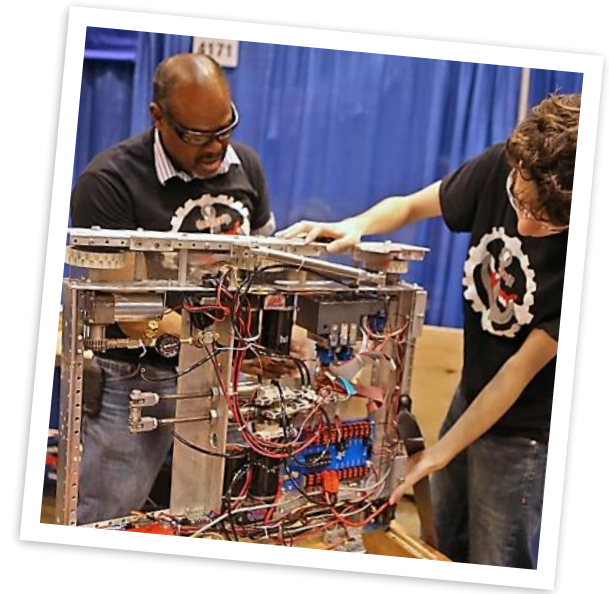
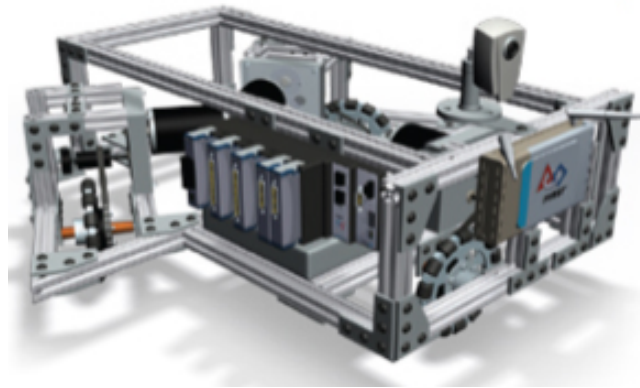


Source: FIRST, 2011 Survey of FIRST® Robotics Competition and FIRST® Tech Challenge Alumni



Ages 14-18 (Grades 9-12)

Teams of 25 (average) or more students compete with 120-pound robots in this Varsity *Sport for the Mind*,™ combining the excitement of sports with the rigors of science and technology.



# FIRST POWER UP

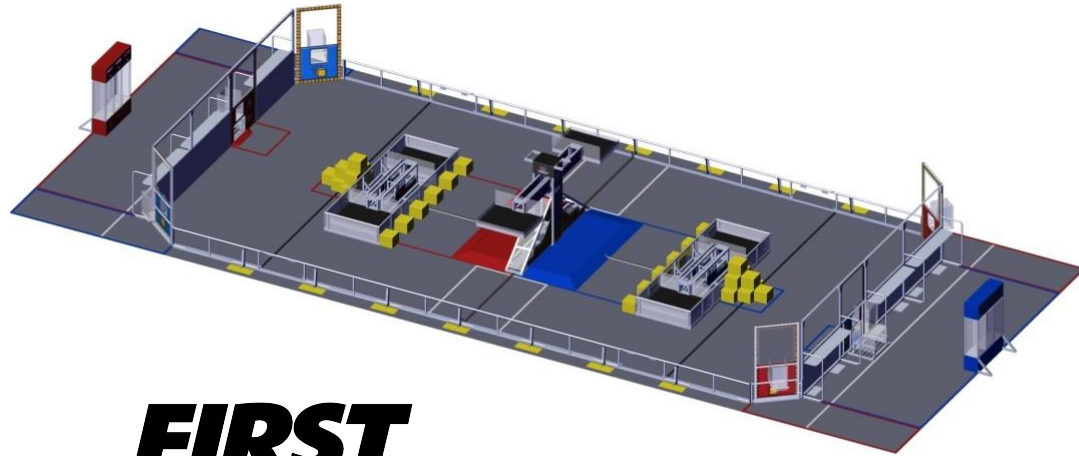
2018 Season

- Strict rules, limited resources, time limits
- Students mentored by professional engineers
- Learn and use sophisticated hardware and software
- Build and compete with robots of their own design
- Develop design, project management, programming, teamwork, strategic thinking, and *Coopertition*® skills
- Qualify for >\$50 million in scholarships

# 2017 Iowa Regional

<https://www.flickr.com/photos/153287148@N06/albums>

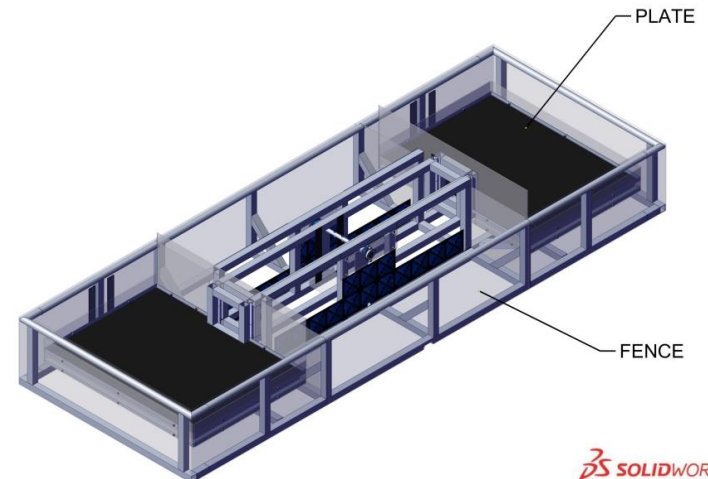
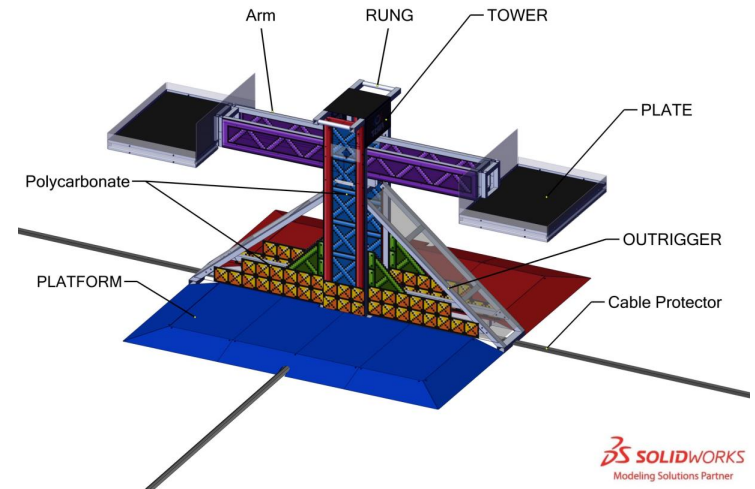
# 2018 Game



**FIRST**  
**POWER**  
**UP** 



- Control the Scale and Switches
- Climb the Scale



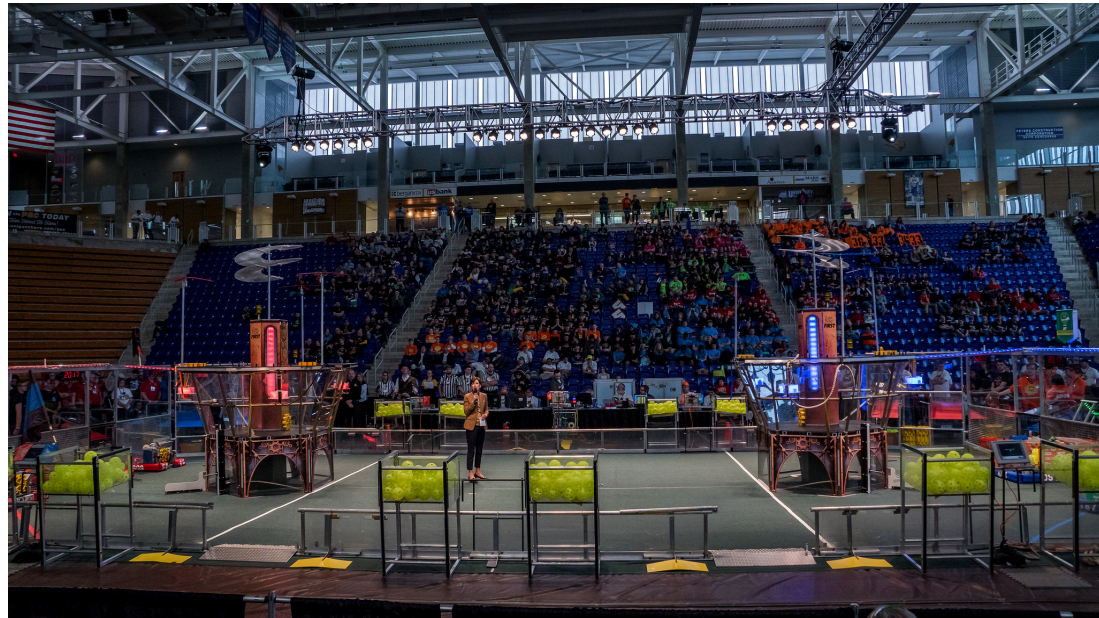


# ***FIRST***® PowerUp Video

<https://youtu.be/HZbdwYiCY74>

# *FIRST*® Robotics Competition Iowa Regional

- **>60 teams:**  
over 2000 students and mentors from the Midwest, Brazil and Turkey
- **About 150 volunteers:**  
nearly all roles at the event are volunteers
- **March 22-24:**  
at the UNI-Dome  
& McLeod Center  
  
free admission



# How can you help?

- **Volunteer:**  
numerous roles available - the most rewarding adventure you'll ever undertake
- **Machine Shop support:**  
tools and expertise needed for the on site Machine Shop
- **Sponsorship:**  
the most enlightened investment you could ever make

# Local *FIRST* Robotics Competition Teams

- **525 Swartdogs:**  
Cedar Falls HS - [www.525swartdogs.org](http://www.525swartdogs.org)
- **5837 Unity4Tech:**  
Waterloo East & West HS - <https://unity4tech.weebly.com>
- **6164 Moonshot Slaybots:**  
Dike New Hartford HS - <http://dnhrobotics.weebly.com>
- **6455 Coded Collective:**  
Columbus HS - <https://www.facebook.com/columbusfrc>
- **6630 F.U.N. (Fiercely Uknighthed Nation):**  
Union HS <http://6630fun.weebly.com>



# More Information

- On the web:
  - [www.firstinspires.org](http://www.firstinspires.org)
  - [www.iafirst.org](http://www.iafirst.org)
- Email:
  - [iowafrc@cfu.net](mailto:iowafrc@cfu.net)
  - [bnewendorp@firstinspires.org](mailto:bnewendorp@firstinspires.org)
- Volunteer Coordinator:
  - [iowafrcvolunteers@cfu.net](mailto:iowafrcvolunteers@cfu.net)