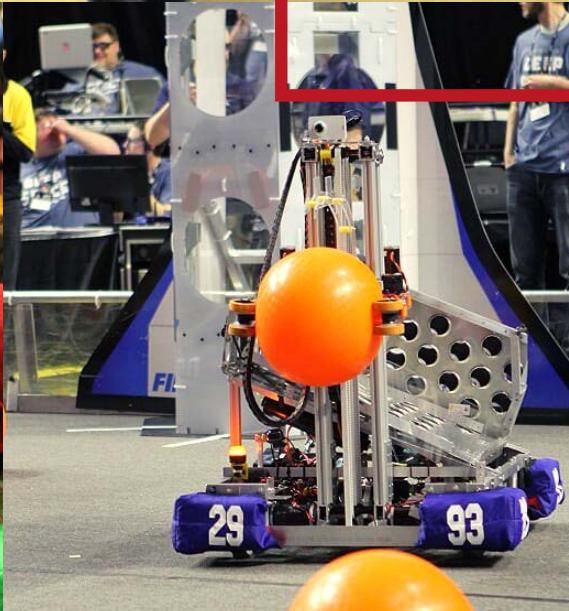




FIRST UTAH ROBOTICS



2019

LARRY H. & GAIL MILLER

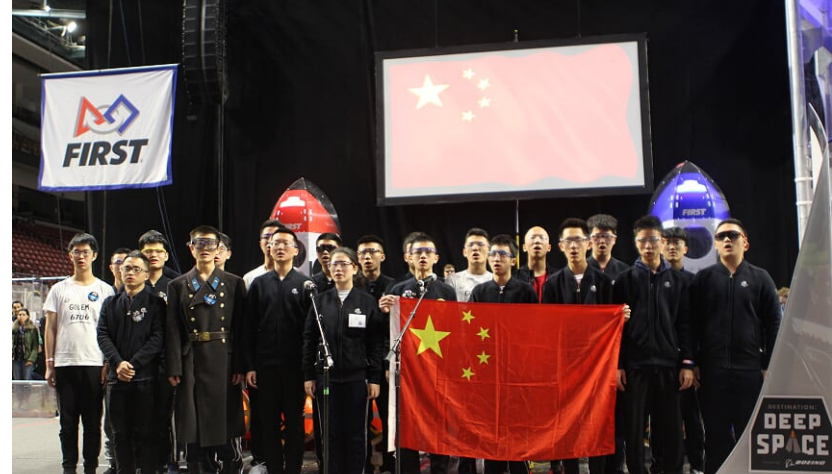
FAMILY FOUNDATION

**Thank you for your
invaluable support!**

**Together we are
making a difference!**

FRC AT A GLANCE 2018-2019

- **1608** Students on **49** teams from 5 states, Mexico, and China.
- **55K** Hours contributed by Utah Mentors, Coaches, and Judges.
- **24** Utah teams.
- **4** Teams advanced to the Houston FIRST Championship
- **90%+** graduating FRC Seniors plan to attend college or trade school.
- **75%+** FIRST Alumni are in a STEM field as a student or professional.





FLL JR./FLL/FTC AT A GLANCE

- **4684** students on **419** teams.
- **128,000** volunteered hours from coaches, mentors, and judges.
- **16** competitions.
- **3** Utah Championships.
- **5** Utah teams advanced to the Houston FIRST Championship.

FIRST Impact

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

STEM MAJOR CITED BY FIRST PARTICIPANTS

2x
as likely to major in
science or engineering



Major in engineering

41%

33% 
of women major in engineering

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

SCHOOL ENGAGEMENT INCREASES FOR FIRST PARTICIPANTS

More interested in doing well in school

87%

FIRST® LEGO® League

86%

FIRST® Tech Challenge

88%

FIRST® Robotics Competition

Plan to take a
more challenging
math or science course



84%

FIRST® Tech Challenge

90%

FIRST® Robotics Competition

More
interested
in going to
college



88%

FIRST® LEGO® League

87%

FIRST® Tech Challenge

91%

FIRST® Robotics Competition

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

21ST CENTURY WORK-LIFE SKILLS GAINED BY FIRST PARTICIPANTS



Improved problem
solving skills

98%



Increased time
management skills

95%



Increased conflict
resolution skills

93%



Strengthened
communication skills

OVER 76%

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

FIRST ALUMNI IN STEM CAREERS



89.6%

of Alumni are in a STEM field
as a student or professional

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



FIRST

FOR INSPIRATION AND RECOGNITION OF SCIENCE AND TECHNOLOGY

WWW.USFIRST.ORG



**FIRST
IMPACT:
MORE THAN
ROBOTS**

**Developing the spirit of innovation
and entrepreneurship = Utah's
skilled workforce**

Entrepreneurial Skills Gained:

- **Business Planning**
- **Fundraising**
- **Market Research**
- **Branding**
- **Gracious Professionalism®**
- **Coopertition®**



FIRST® LEGO® League Jr.

Primarily mechanical and project based learning. Moving to icon based, drag and drop, introduction to programming logic.



FIRST® LEGO® League

Icon based, drag and drop, introduction to programming logic.



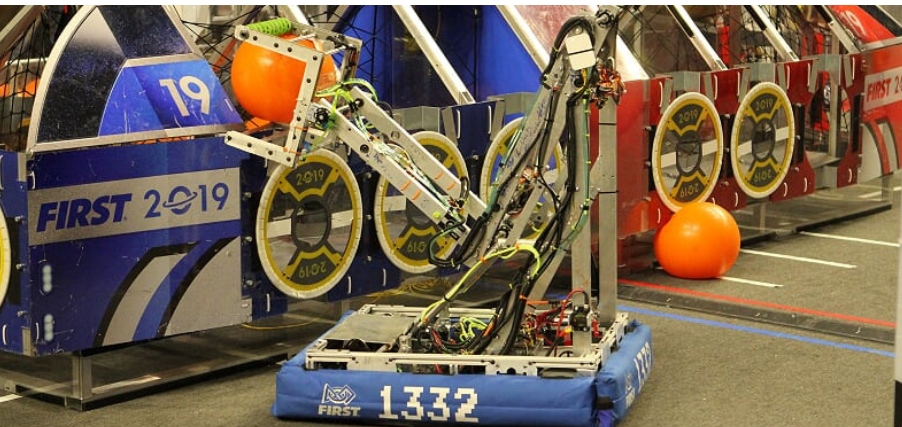
FIRST® Tech Challenge

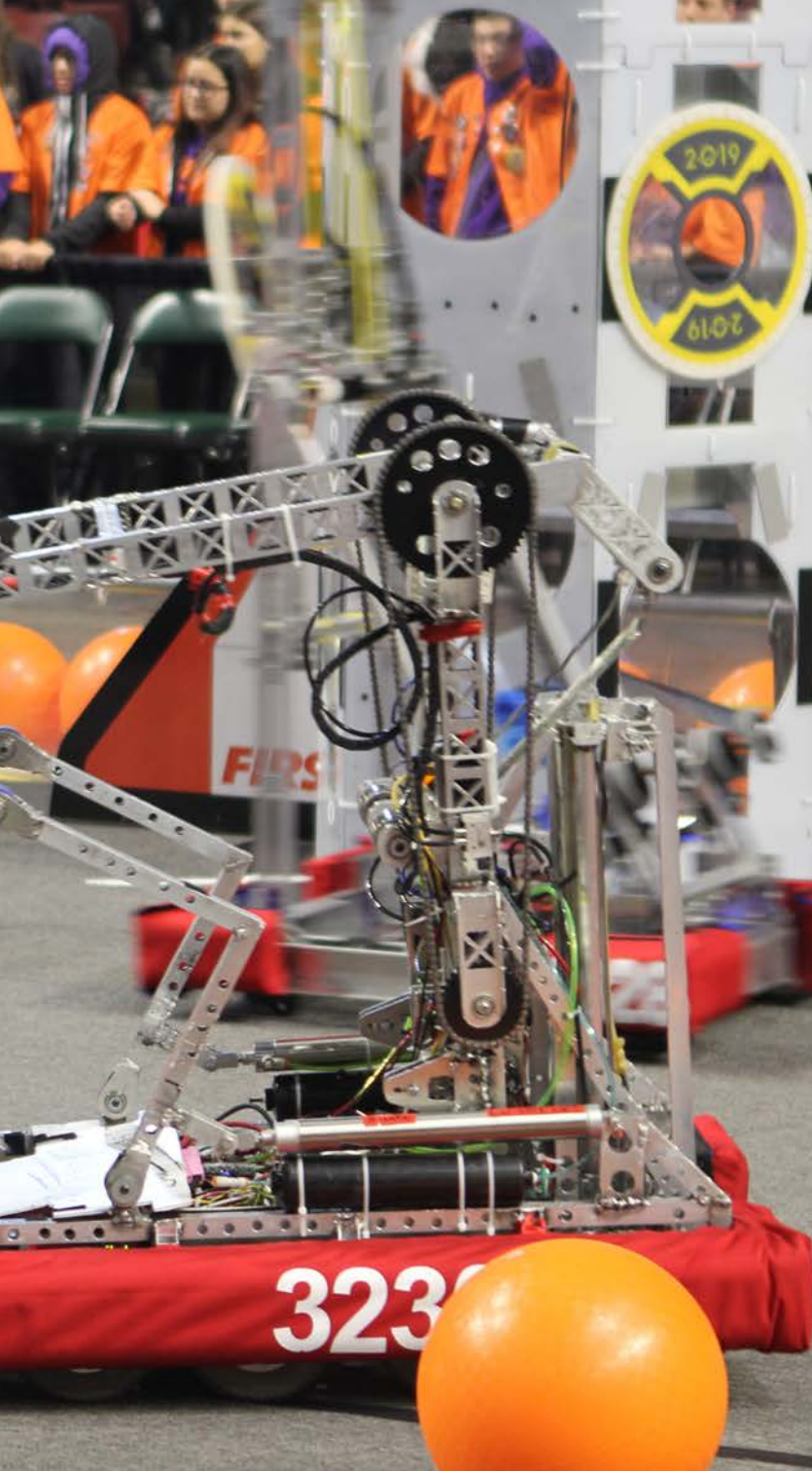
Scratch-based graphical app development or full Java programming. Teaches basic programming logic, app development, and text based language programming used in most high school AP classes.



FIRST SOFTWARE PROGRESSION

FIRST® Robotics Competition offers three programming options. LabVIEW is an icon based language, teaching programming logic and structure, C++ text- based language, and Java, a text based language used in most high school AP classes.





GOALS

Fund and Grow Programs:

- 1. FIRST® Robotics Competition (FRC)**
- 2. FIRST® Tech Challenge (FTC)**
- 3. FIRST® Lego® League Championship**
- 4. FIRST® Lego® League Jr.**

Strengthen FIRST ecosystem: mentors, teams, sponsors, coaches, and students.

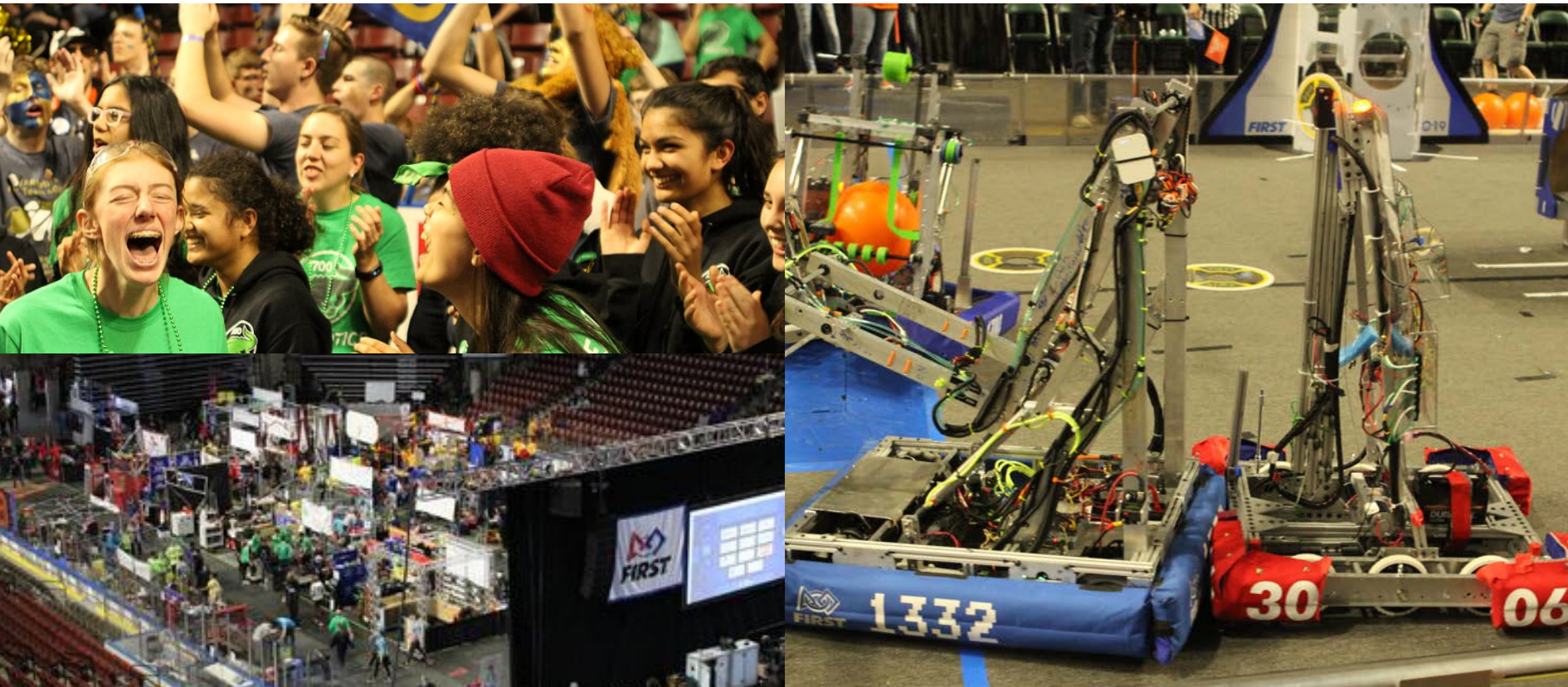
Develop industry partnerships to ensure long-term sustainability.



Regional Benefits:
Lowers team costs
by \$10,000 – More
Utah teams can
compete – Key to
inspiring and
motivating students.

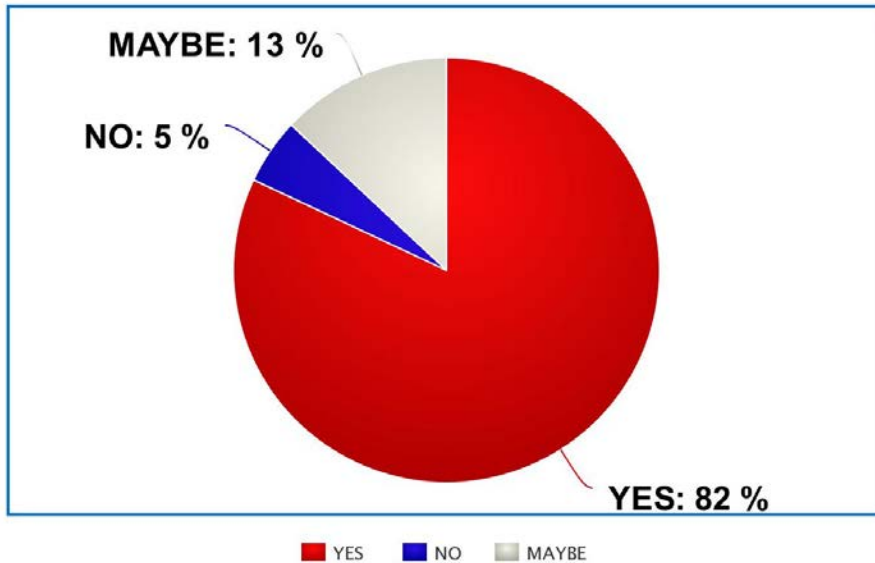
2019 Recap:
5 States, China
and Mexico – 49
Teams – 24 Teams
from Utah – 5000
participants &
spectators.

THE UTAH REGIONAL

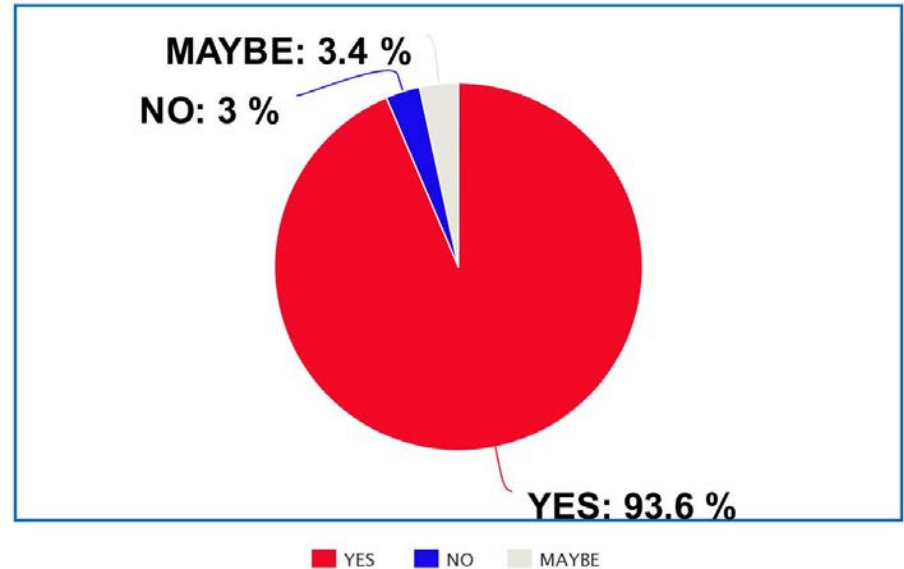


2019 SENIOR SURVEY

Did your FIRST experiences influence your decisions for the future?



Will you be attending College or Trade School?



"I liked how easy it is to get out of your comfort zone and try new things and get to know new people. Plus, just looking at the more creative robots in the competition is enough to make me smile! I have some new memories from there that I will cherish for the rest of my life! <3"

- FIRST Member

"Utah FIRST is one of my favorite regionals and the community is incredible!"

- FIRST Member



**Thank you
for your support,
passion, and
commitment to creating
the next generation of
leaders and innovators!**

**Contact: Chelsey Short
FIRST Regional Director
CShort@firstinspires.org**

THANK YOU 2019 SPONSORS!!!

FOUNDING PARTNER SINCE 2018

LARRY H. & GAIL MILLER FAMILY FOUNDATION



Utah Governor's Office of
Economic Development
BUSINESS • TOURISM • FILM

