



# **HOW IT WORKS**

AGES 14-18\*

GRADES

9-12

We express the FIRST philosophies of Gracious Professionalism® and Coopertition® through FIRST Core Values:

- Discovery: We explore new skills and ideas.
- Innovation: We use creativity and persistence to solve problems.
- **Impact:** We apply what we learn to improve our world.
- Inclusion: We respect each other and embrace our differences.
- **Teamwork:** We are stronger when we work together.
- Fun: We enjoy and celebrate what we do!

Each year brings a new challenge for FIRST® Robotics Competition teams. With limited time and resources, they create their team identity, raise needed funds, and work with mentors to analyze and develop a strategy to compete via provided rules and guidelines. Team members design and build a competitive industrial-sized robot using sophisticated hardware and software technology to meet the challenge. Students experience real-world engineering and entrepreneurship. Each team competes for judged and competition awards at action-packed multi-day events with other teams.

FIRST Robotics Competition is a sport where all participants can choose to become a professional.

"It's like life. You never have enough information. You never have enough time. The kit of materials may be what you have in the warehouse. There are always people doing competing things and you must have a strategy. We've created a microcosm of the real engineering experience."

- WOODIE FLOWERS (1943 - 2019) FIRST DISTINGUISHED ADVISOR

#### WHAT IT OFFERS:

- It is a sport where participants play with and learn from the pros
- Designing and building a robot is a fascinating real-world professional experience
- Competing brings participants as much excitement and adrenaline rush as conventional varsity tournaments
- The game rules are a surprise every year
- Access to education and career discovery opportunities, connections to scholarships and employers, and a place in the FIRST community for life

#### **GET STARTED:**

- High-school-aged students from your school and/or community
- · Adult mentors
- Financial sponsors
- · A meeting place
- Tools
- Time
- · Passion and dedication

WWW.FIRSTINSPIRES.ORG/FRC



## PROVEN, VERIFIABLE IMPACT!\*



83% Express understanding of how science and technology can be used to solve real-world problems



**94**% Accept failure as part of learning



77% Express a sense of team identity and belonging

### **SEASON OVERVIEW**

MAY

Registration for the season opens

**JANUARY** 

Season Kickoff and start of build season

**FEBRUARY-APRIL** 

Regional and district competitions

**APRIL** 

FIRST® Championship SUMMER/FALL

Off-season events and prep for next season

## FOR INFORMATION ABOUT FIRST IN YOUR AREA



Project-based, hands-on *FIRST®* programs introduce students to engineering and coding in an engaging, inclusive, and creative classroom or after-school learning environment where students work collaboratively to solve an annual robotics challenge. Boosted by a million-strong global community of students, mentors, educators, volunteers, sponsors, and alumni in over 100 countries, our PreK-12 programs are designed to inspire innovation and equip young people to build a better future.

