

Inspiring students, one robot at a time.

OUR MISSION

Increase student interest and involvement in science, technology, engineering, and mathematics (STEM) by engaging students in hands-on, affordable, and sustainable robotics engineering programs.











Inspire and motivate students to excel in STEM education.











OUR VISION

We create programs so all students develop and thrive.

We see a future where all students design and innovate as part of a team, experience failure, persevere, and embrace STEM.





Educating Tomorrow's Innovators



NEARLY 7 MILLION STEM JOBS ARE GOING UNFILLED

- The REC Foundation's education programs provide a pathway to STEM careers
- VEX Robotics students earn manufacturing industry certifications 50% faster than other students. (RAMTEC, 2018)

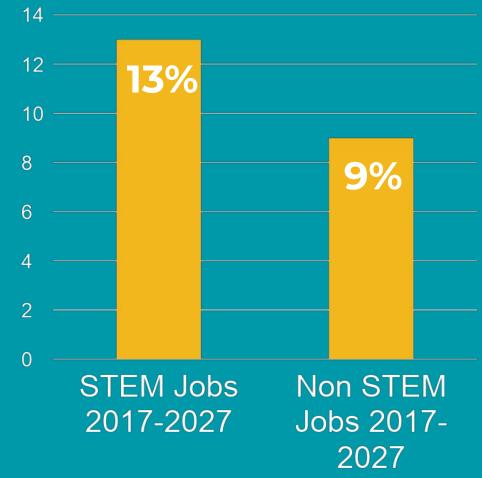


STEM Projections

THE AVERAGE STEM JOB AVAILABLE TO WORKERS WITHOUT A BACHELOR'S DEGREE PAYS

\$ 53 K

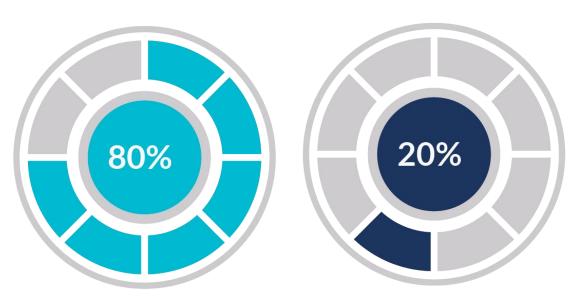
Projected STEM Job Growth





STEM Projections

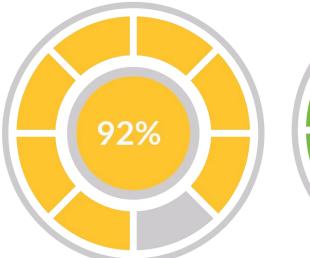
A Harvard University Study found that achievement on the job required:



Soft Skills

Hard or Technical Skills

The Wall Street Journal interviewed 900 executives and found:



Soft skills are as important as hard skills



Having a hard time finding hires with soft skills



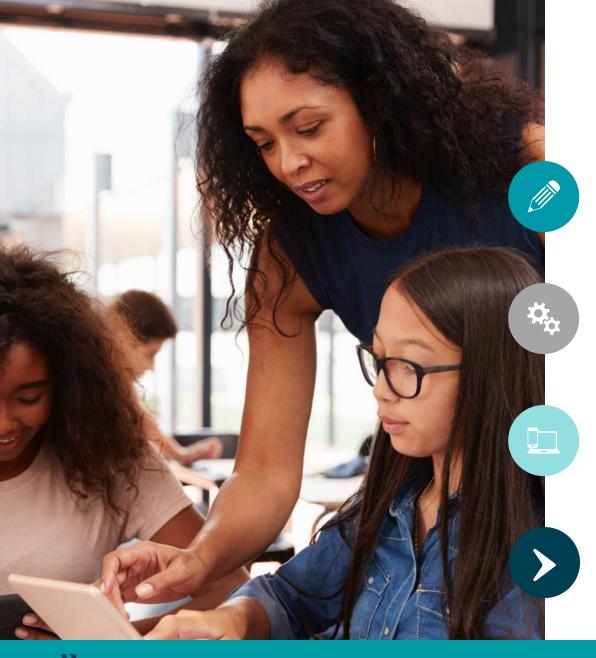




Soft Skills For A Strong Future

- 1. Teamwork
- 2. Collaboration
- 3. Problem Solving
- 4. Time Management
- 5. Critical Thinking
- 6. Communication





What is Workforce Readiness?

Workforce readiness means having students* prepared to enter the workforce with the knowledge, skills, abilities and attributes ready to engage in activities that will be required for the workplace.

Workplace readiness skills are important because they ensure workers have the basic academic, critical thinking and personal skills necessary to maintain employment. Academic skills such as *reading*, *writing*, *basic math and communication skills** are essential for optimal job performance.











Pre-K

Grades K-2

VEX 123

Elementary

Grades 3-4

VEX IQ Challenge

VEX GO Challenge

Middle School

Grades 5-8

VEX IQ Challenge

REC Foundation Aerial Drones (RAD)

> VEX Robotics Competition

High School

Grades 9-12

VEX Robotics Competition

REC Foundation Aerial Drones (RAD)

VEX V5

Factory Automation Competition (FAC)

VEX AI Competition (VAIC)

Post-Secondary

Collegiate

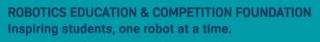
VEX U

Factory Automation Competition (FAC)

VEX AI Competition (VAIC)

STEM Education Continuum









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Duration of Kits

Kits last about 5-7 years.

Additional Cost

Once a kit is purchased, annual registration fees are the only additional costs.

Fields

Game fields can be repurposed year after year.

Team Activation

On average, teams will remain active for five years after initial kit purchase.





AccessibleOvercoming Barriers



THE HIGHEST REWARD FOR A PERSON'S WORK IS NOT WHAT THEY GET FOR IT; BUT WHAT THEY BECOME BY IT

- JOHN RUSKIN-

Participation and success in our programs is self-paced and available for everyone, regardless of experience in STEM robotics, or location.

- Student-centered and self-paced learning
- Support educators with free, easy to follow, hand-on STEM lesson plans with guided explorations









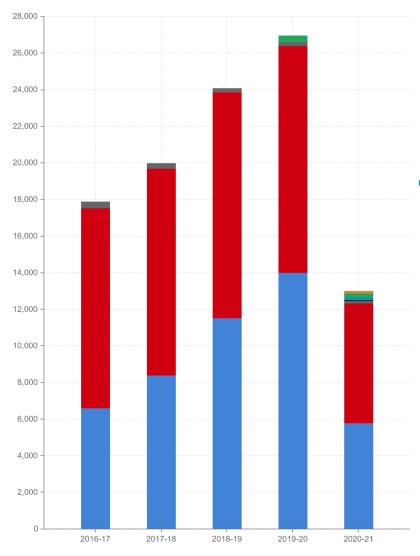


VEX AI

VEX GO Challenge

RADC

VRAD



Team and Program Growth

Last Five Years

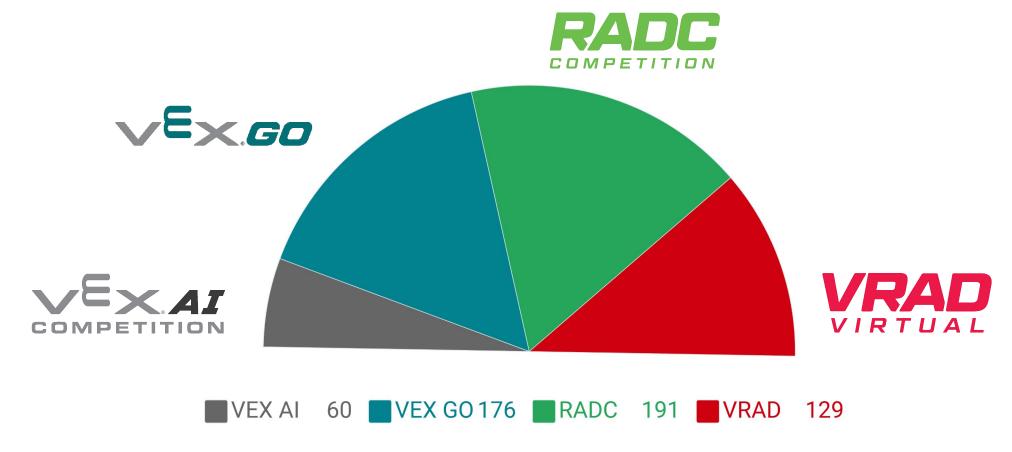
- At a glance of the new programs and participation of teams over the past five years.
- Even during the pandemic we succeeded in engaging teams in our programs and created even more.





2020-21

Programs and Teams







2021 Live Remote VEX Robotics World Championship

Over 1,400 teams from over 30 countries and 49 US states competed on first-ever streaming platforms allowing students to compete in a dynamic real-time, online setting.

Recognized by Guinness World Records® as the Largest Online Robot Championships record holder.

Live Remote VEX Worlds

The Largest Online Robot Championship

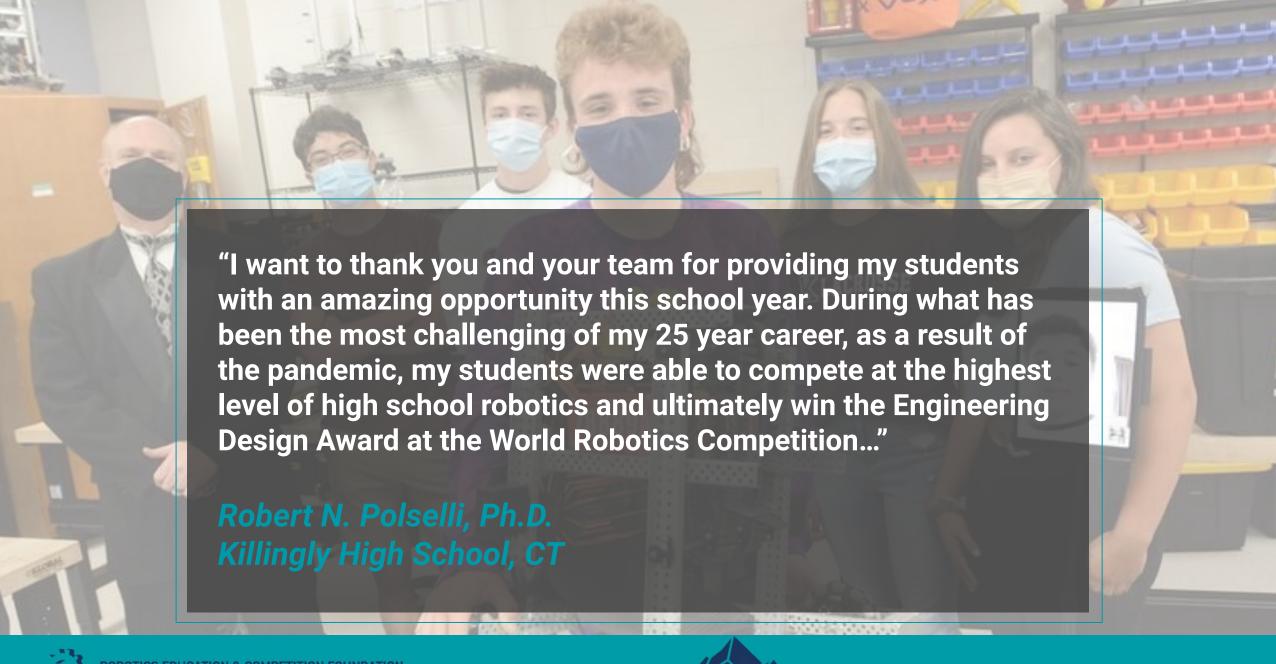








Students also experienced many of the same World Championship traditions as past competitions such as the Parade of Nations along with Inspiration All-Star and Online Challenges awards ceremonies. New additions to the event included a Celebration of Diversity segment, VEX Innovator features, and daily live-streamed morning check-ins, and afternoon recaps on each day's highlights. Broadcast via YouTube live, the event and matches were accessible for the community to tune into matches to cheer on their teams on a global level and in real-time. All streams are available to watch on the REC Foundation YouTube channel.





Thank you for an amazing season. I know the hard work it took to pull this off and can't say thank you enough for finding a way to make it happen for the kids. Know how much we appreciate you all.

- Matthew Christian



THANK YOU

