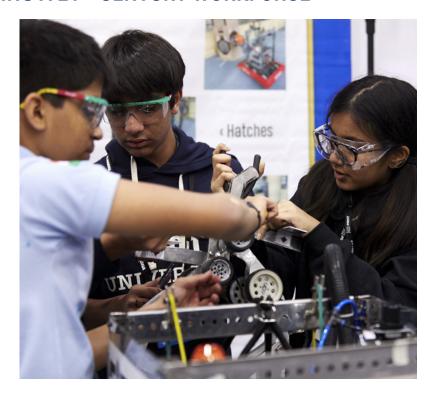


How to prepare young people for the New World of Work

FIRST® AS A SOLUTION TO BUILDING A 21ST CENTURY WORKFORCE

Rapidly changing technology is outpacing the capabilities of the workforce, leading to a shortage of qualified workers to fill these roles in both technical skills and more holistic 21st century (e.g. critical thinking, problem solving, communication, collaboration, creativity) skills. In our society, the new world of work requires young people to enter the workforce "career ready" with a strong foundation of knowledge, skills, and capabilities needed for work in the 21st century in order to make meaningful contributions in their respective pathways.

The 21st century economy is producing new professions at a rapid rate. Employers struggle to find candidates with the skills they require. The need for tech-savvy workers who have critical thinking and problem-solving skills is urgent across multiple industries. Employers report difficulty in identifying potential employees with essential skills.



ESSENTIAL SKILLS STUDENTS BUILD WITH FIRST

- 1. Critical Thinking and Problem Solving
- 2. Collaboration
- 3. Adaptability
- 4. Innovative Thinking
- 5. Entrepreneurship
- 6. Communication
- 7. Accessing and Analyzing Information
- 8. Curiosity and Imagination

GAINS IN SKILLS

Communication

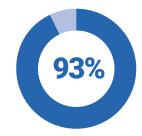


Time Management 95% of students reported gains



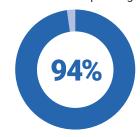
Conflict resolution





Problem-solving

94% of students reported gains





WORKFORCE SKILLS FIRST is one of the world's leading organizations providing experiential workforce development skills in a STEM setting.

For 30 years companies have invested in FIRST to develop their workforce. Today, we're one of the world's leading organizations providing experiential workforce development skills for STEM industries.

Industry professionals as coaches and mentors

Regionally based internships and apprenticeships

Using FIRST experience toward work-based learning credits

Earning industry certifications and credentials through access gained as part of a competition team

Career exploration that builds curiosity and awareness of future career opportunities

Integrated industry-relevant practices in program design such as the use of machine learning and artificial intelligence

Experiential opportunities to use key Industry 4.0 technologies

FIRST ALUMNI





81% of FIRST alumni declared a major in STEM compared to 58% in the comparison group.

81% FIRST alumni 58% Comparison group

Declared a major in engineering or computer science

68% of FIRST alumni declared a major in engineering or computer science compared to 26% of the comparison group.

68% FIRST alumni 26% Comparison group

Declared majors in STEM by their 4th year in college

69% of female FIRST alumni declared majors in STEM by their 4th year in college compared to 49% of the comparison group.

69% FIRST alumni 49% Comparison group

Positive impacts are evident for all FIRST students regardless of race, gender, income, or community type.

Detailed information about the study can be found at www.firstinspires.org/impact

