

# FACT SHEET

“LEARNING TO LEAD IN A TECHNICAL WORLD”



The **Technology Student Association (TSA)** is a national, non-profit organization of middle and high school students who are engaged in science, technology, engineering, and mathematics (STEM). Since TSA was chartered in 1978, almost 4,000,000 student members have participated through challenging competitions, leadership opportunities, and community service. TSA is one of eight **Career and Technical Student Organizations (CTSOs)**.

## MISSION

The Technology Student Association enhances personal development, leadership, and career opportunities in STEM, whereby members apply and integrate these concepts through intracurricular activities, competitions, and related programs.

## MEMBERSHIP

- 250,000 middle and high school students
- 100% likely to graduate from high school
- 39% female and/or minority representation
- More than 2,500 teachers (advisors)
- 75% college-bound
- More than 2,000 schools in 48 states

## CONNECTIONS



WILEY

## COMPETITIONS

TSA offers **70 competitive events for middle and high school students**, spanning STEM, computer science, and information technology (IT). Students are challenged to use and improve their STEM and IT skills in team and individual events. Sixty-eight of the seventy TSA competitions are aligned with the STEM standards and the “**16 Career Clusters: Pathways to College and Career Readiness**.” The two new Cybersecurity and IT Fundamentals+ Certification competitions will be aligned with the STEM standards soon.

### STEM-focused competitions:

- Architectural Design
- Biotechnology Design
- Forensic Science
- Inventions and Innovations
- Mechanical Engineering
- Structural Engineering

### Computer Science/ IT-focused competitions:

- Cybersecurity – **New in 2019**
- IT Fundamentals+ Certification – **New in 2019**
- Coding
- Microcontroller Design
- Scientific Visualization
- Software Development
- System Control Technology
- Video Game Design
- Webmaster

A complete list is available at [TSAweb.org](http://TSAweb.org).

## CURRICULUM INTEGRATION

TSA helps teachers (advisors) meet the criteria for STEM education goals through innovative programs that include activities, competitions, leadership, and teamwork for students. Teachers (advisors) can use TSA’s activities during the school day in their classroom and extend the learning beyond the classroom through a TSA chapter.

### LEAP (Leadership. Education. Achievement. Personal Growth.)

LEAP is TSA’s comprehensive leadership program that encourages students to be the best they can be—as they seek knowledge about themselves, the organization, and their community—while demonstrating leadership. LEAP brings to life the TSA motto, creed, and mission statement. The program rounds out students’ educational experience by developing key soft skills through community service, competitive events, public speaking, and networking with peers and mentors.

TSA is a non-partisan, non-sectarian 501(c)(3) national association of STEM students. TSA does not discriminate on the basis of race, color, age, religion, creed, ethnicity, gender, gender identity/ expression, or disability.

### Technology Student Association

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