

Engineering & Technology

The **Engineering & Technology** Career Cluster focuses on preparing students for employment in careers that relate to the planning, managing, and providing professional and technical services, including research and development services.



UTAH CAREER AND TECHNICAL EDUCATION (CTE) CAREER PATHWAYS ALIGN WITH THE NATIONAL CAREER CLUSTERS®.

1,499

students concentrated in a CTE Career Pathway within the **Engineering & Technology** Career Cluster, with **160,054** students enrolled in CTE courses.

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

TOP THREE

industry certifications earned by students in CTE Career Pathways within the **Engineering & Technology** Career Cluster.

| | |
|-------|-----------------------|
| 1,356 | Physics w/ Technology |
| 814 | CAD Mechanical Design |
| 399 | Robotics 1 |

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

3,710

CTE Skill Certificates awarded to students in the **Engineering & Technology** Career Cluster.

Fifty-six

percent of students statewide **concentrated** in a CTE Career Pathway. A **concentrator** is a student who has completed **1.5 credits** in a single CTE program of study.

Twenty-five

percent of students statewide **completed** a CTE Career Pathway. A **completer** is a student who has completed **3.0 credits** in a single CTE program of study.

Student Success

"I want to earn an AAS degree in mechatronics. After completing my degree I plan on finding work with a company designing production equipment. My high school engineering instructor was an amazing person and has influenced my love of this field and the path that I have chosen."

Connor Hendry

2,554

students are members of a Career and Technical Student Organization (CTSO) aligned with the **Engineering & Technology** Career Cluster. Students who participate in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of **TSA**.

UtahTSA.org | TSAweb.org

CTE Career Pathways

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

Engineering & Technology Career Cluster

Utah CTE Career Pathways:

- > CAD Mechanical Design
- > Electrical Engineering
- > Mechanical Engineering
- > Robotics & Electronics

 **Learning that works for Utah**

2016-2017 Data Represents Secondary Education
Source of Data: Utah State Board of Education