

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 **163,690** 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.

788	CAD Mech. Design 1
428	Engineering Technology
354	Robotics 1

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

2,451

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

(SY 2018-2019)

Fifty-two

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-one

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

2,239

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**. (SY 2018-2019)

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: (SY 2019-2020)

- > Engineering
- > Mechanical Design (CAD)

 **CTE** Learning that works for Utah

2018-2019 Data Represents Secondary Education
Source of Data: Utah State Board of Education

May 2020

Utah State Board of Education | 250 East 500 South | P.O. Box 144200 | Salt Lake City, UT 84114-4200
Sydnee Dickson, Ed.D., State Superintendent of Public Instruction
Thalea Longhurst, State Director of Career and Technical Education

Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age.