

# CTE Career Pathway Readiness Opportunities



## Engineering & Advanced Manufacturing



### High school courses

Career and Technical Education (CTE) courses integrate rigor in academics, and career and leadership skills.

Industry certifications (professional cert) are noted with\*  
- Foundations of Manufacturing Certificates: Core Plus, OSHA, NC3

Dual credit (college credit) courses are noted with \*\*

#### Core Courses

Algebra 1 and 2

Geometry

Physics in the Universe

#### Exploratory Courses

CAD and 3D Printing (MS) - HS credit

Foundations of Manufacturing @CHS\*

Engineering Your World

Robotics Technology \*\*

Robotics & Mechatronics \*\*

Astronomy and Aerospace Engineering

Technical Theatre 1, 2, 3

#### Advanced Courses

AP Physics

AP Capstone: Research in Science and Engineering

#### Skill Center Courses

Electric Engineering Technology

Precision Machining

Welding and Metal Fabrication



### Career and Technical Student Organizations (CTSOs)

CTSOs are part of all CTE courses. Students can explore careers, and practice their skills through competition at local, regional and national levels through after school programs.

- ✈ Technology Student Association (TSA)
- ✈ Robotics (FRC/FTC/FLL/FLL jr/Drone League)
- ✈ SkillsUSA
- ✈ TARC - Team America Rocketry
- ✈ Washington Thespian



### Work based learning

These are learning experiences that provide career guidance and exploration: job shadows, internships, apprenticeships, community speakers, field trips and jobs.

- ✈ Engineering & Manufacturing Internship
- ✈ Aerospace Joint Apprenticeship Committee (AJAC - Youth Apprenticeship)



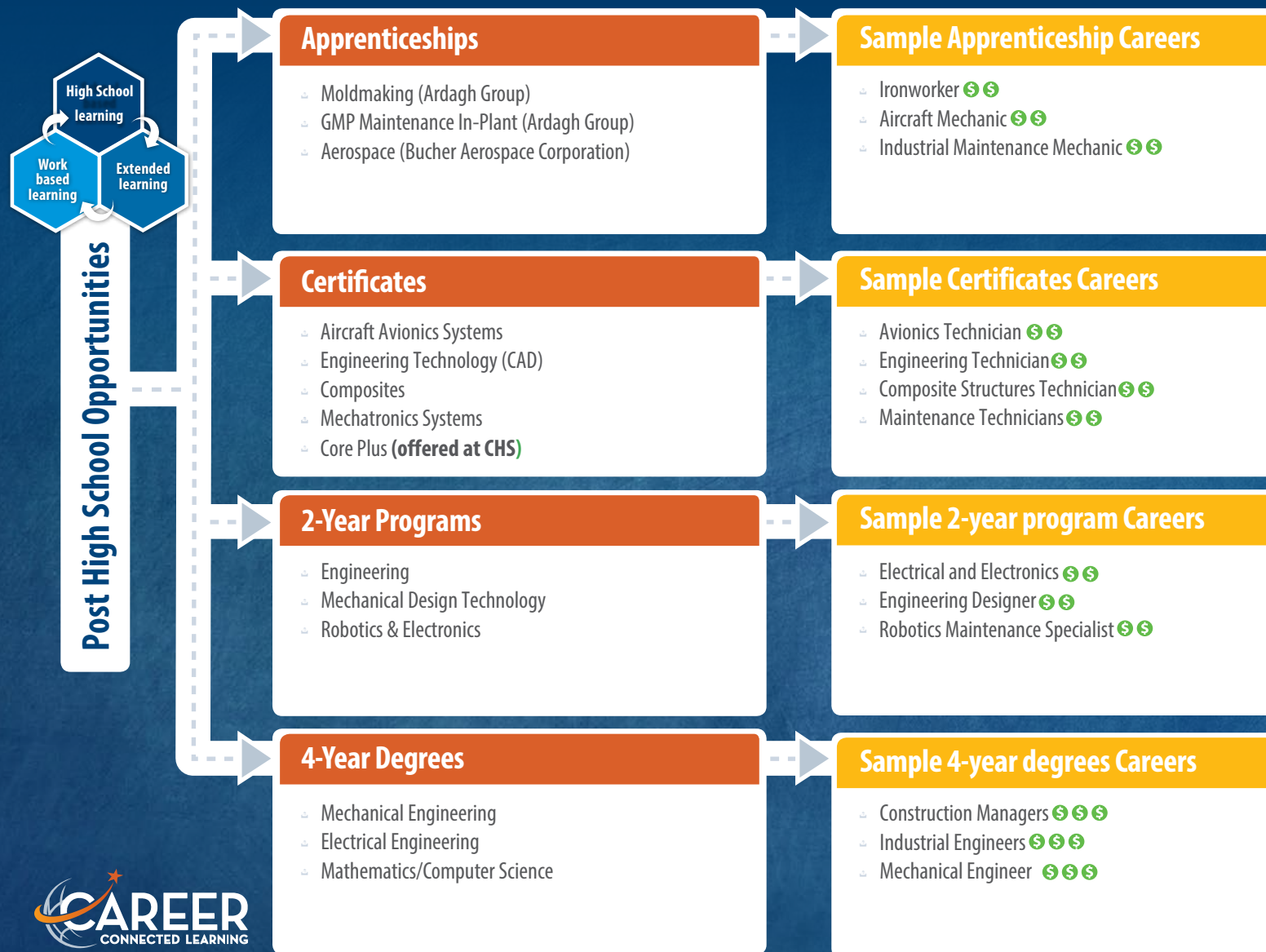
For more information regarding Everett Public Schools Career Pathways, please contact your high school's career specialist and counselors. Visit the CTE web page on: [Everettsd.org](http://Everettsd.org)

Document updated: Dec. 2020

# Pathways to Engineering & Advanced Manufacturing Careers



Careers in engineering and advanced manufacturing include scientists, engineers, technicians, production and support workers. This pathway is for you if you like working with your hands, creative, want to design, work with robotics and technology.



## SKILLS

- Troubleshooting
- Good writing skills
- Hands-on work
- Identifying problems
- Active listening

## TRANSFER

▶ = Transfer degree only

## SALARIES

\$ = Max \$25/hr  
 \$ \$ = Max \$26-40/hr  
 \$ \$ \$ = Max > \$40/hr

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