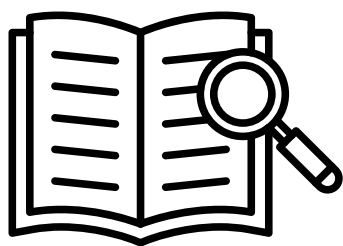
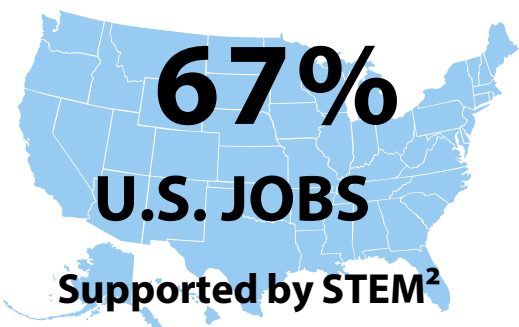


# TRADE CAREERS IN STEM



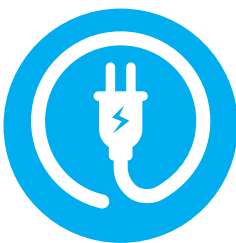
**STEM** is defined as a cluster of technical jobs in the key industries of science, technology, engineering, and mathematics<sup>1</sup>.



**\$2.3**  
**TRILLION**

Annual federal tax revenue generated by STEM jobs<sup>2</sup>

## CAREERS IN THE TRADES



### ELECTRICAL

Work with complex electrical systems, applying the knowledge of both physics and engineering<sup>3</sup>.



### HVAC

Employ the principles of thermodynamics and fluid mechanics to develop systems controlling temperature and air quality in buildings<sup>3</sup>.



### PLUMBING

Apply the advanced principles of technology and engineering to oversee water distribution and waste management<sup>3</sup>.



### WELDING

Use the principles of metallurgy and materials science to fuse metal parts<sup>4</sup>.

## KEY SKILLS & COMPETENCIES <sup>7</sup>

Practical Experience

Safety Conscious

Adaptability & Agility

Communication & Leadership

Problem Solving

Creativity

Collaboration

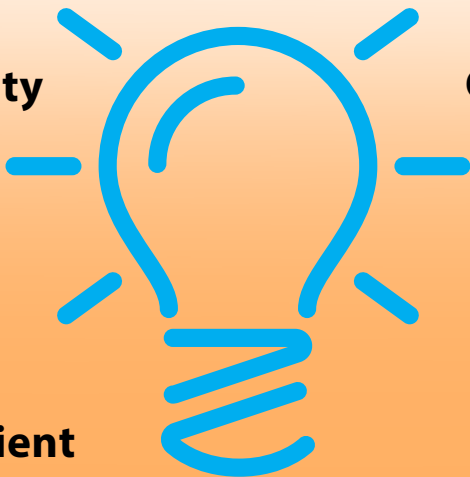
Curiosity

Technology Proficient

Detail-Oriented

Innovation

Engineering Design



## EDUCATION & TRAINING

- High school math, physics, computer science, and chemistry courses<sup>5</sup>
- Technical school or community college<sup>6</sup>
- On-the-job training through internships, apprenticeships, jobs and more

1.U.S. Bureau of Labor Statistics. (2024, August 29). Employment in STEM occupations. U.S. Bureau of Labor Statistics. [Employment in STEM occupations : U.S. Bureau of Labor Statistics](#)  
2.Bouchrika, I. (2024, October 24). STEM careers: 2024 guide to career paths, options & salary. Research.com. [STEM Careers: 2024 Guide to Career Paths, Options & Salary | Research.com](#).  
3.Explore The Trades. (n.d.). STEM and the skilled trades. Explore The Trades. [Stem - Explore The Trades](#)  
4.Trade Schools. (2024, November 19). 45 great STEM careers: Good-paying jobs at every degree level. Trade Schools [45 Great STEM Careers: Good Jobs at Every Degree Level](#)  
5.CollegeVine. (2024, December 16). Exploring trade jobs after high school. CollegeVine. [Exploring trade jobs after high school | CollegeVine](#)  
6.STEM Fuse. (2021, September 30). Skilled trades are STEM careers. STEM Fuse. [Skilled Trades are STEM Careers | STEM Fuse](#)  
7.Skillwork Blog. (2024, February 2). The role of STEM education in shaping the future in skilled trades. Skillwork. [The Role of STEM Education in Shaping the Future in Skilled Trades](#)