



Occupation Skills Transferability Guide

This guide is designed to help job seekers coming from a specific occupation see potentially compatible alternative occupations. This is useful for those looking for a career change, looking for career growth, or those who are struggling to find employment in their previous occupation that want to explore additional options. Occupations listed will require varying levels of additional training, skills, and experience but provides a solid starting point to explore additional options or see what specific training opportunities exist to help make these transitions. This guide is part of our series on skills-based career pathways shifting away from career navigation by industry towards an understanding of how individuals can navigate across multiple industries depending on their individual skill sets and experience.

2023 Edition

Electrical Engineers

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Overview

Median Hourly Earnings: \$48.21/hr
 2021 Jobs: 1,629

2021-2032 Change: 135
 2021-2032 Estimated Annual Openings: 123

Education

First Professional Degree - awarded for completion of a program that requires at least 2 years of college work before entrance into the program, includes a total of at least 6 academic years of work to complete, and provides all remaining academic requirements to begin practice in a profession. 0.4%

Master's Degree 23.3%

Post-Baccalaureate Certificate - awarded for completion of an organized program of study; designed for people who have completed a Baccalaureate degree but do not meet the requirements of academic degrees carrying the title of Master. 1.3%

Bachelor's Degree 70.2%

Associate's Degree (or other 2-year degree) 1.8%

Some College Courses 0.4%

High School Diploma - or the equivalent (for example, GED) 2.6%

Compatible Occupations

O*NET Occupation	Median Hourly Earnings*	2021 Jobs*	2032 Expected Growth
Logistics Engineers	\$30.04	1,313	35.2%
Validation Engineers	\$43.50	758	14.4%
Solar Energy Systems Engineers	\$43.50	758	14.4%
Microsystems Engineers	\$43.50	758	14.4%
Petroleum Engineers	\$73.23	142	10.7%
Industrial Engineering Technicians	\$24.63	529	7.3%
Computer Hardware Engineers	\$46.60	301	6.5%
Commercial and Industrial Designers	\$37.66	258	6.2%
Industrial Engineering Technologists	\$29.84	733	5.0%
Mechanical Drafters	\$27.03	497	-2.3%

Top 10 Competencies

Knowledge	Skill	Ability
Engineering and Technology	Reading Comprehension	Written Comprehension
Computers and Electronics	Critical Thinking	Oral Expression
Design	Mathematics	Oral Comprehension
Mathematics	Active Listening	Problem Sensitivity
Physics	Writing	Written Expression
Education and Training	Speaking	Deductive Reasoning
English Language	Complex Problem Solving	Mathematical Reasoning
Mechanical	Science	Inductive Reasoning
Clerical	Monitoring	Information Ordering
Customer and Personal Service	Active Learning	Fluency of Ideas