

Electronics Technology Occupation Report



CIP 15.0303

Cochise, Pima, SC







Electrical, Electronic and Communications Engineering Technology/Technician

CIP 2010: A program that prepares individuals to apply basic engineering principles and technical skills in support of electrical, electronics and communication engineers. Includes instruction in electrical circuitry, prototype development and testing, systems analysis and testing, systems maintenance, instrument calibration, and report preparation.

Occupation Gender Breakdown 2016

	Gender	Jobs	Percent
●	Males	347	83.6% 
●	Females	68	16.4% 

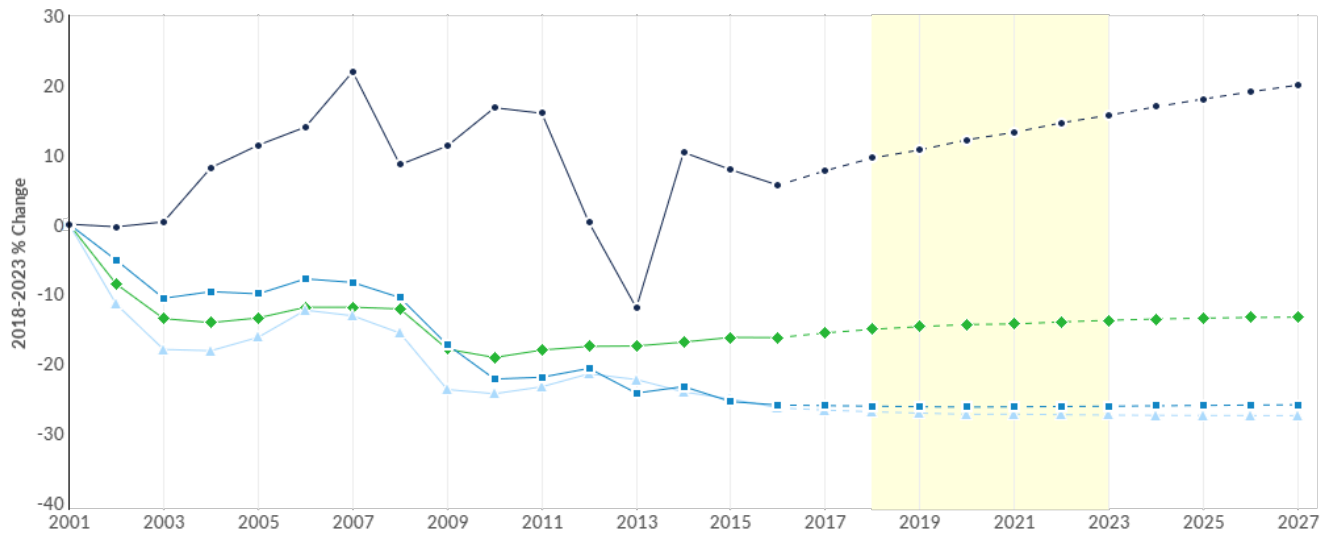
Occupation Age Breakdown 2016

	Age	Jobs	Percent
●	14-18	2	0.4%
●	19-24	23	5.6% 
●	25-34	65	15.7% 
●	35-44	85	20.5% 
●	45-54	115	27.7% 
●	55-64	107	25.8% 
●	65+	18	4.3% 

Occupation Summary for 15.0303

415 Jobs (2016) 0% above National average	0.0% % Change (2018-2023) Nation: 1.5%	\$30.68/hr Median Hourly Earnings Nation: \$29.70/hr
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Occupation Change Summary



Region	2018 Jobs	2023 Jobs	Change	% Change	Median Hourly Earnings
● Cochise County, AZ	54	57	3	6%	\$32.16
● Cochise, Pima, SC	414	414	0	0%	\$30.68
● Arizona (AZ)	2,873	2,854	-19	-1%	\$30.83
● United States	140,372	142,515	2,143	2%	\$29.70

SOC	Description	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
17-3023	Electrical and Electronics Engineering Technicians	Associate's degree	None	None

Occupation Breakdown - 2018 Jobs

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
17-3023	Electrical and Electronics Engineering Technicians	54	414	2,873	140,372
	Total	54	414	2,873	140,372

Occupation Breakdown - 2023 Jobs

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
17-3023	Electrical and Electronics Engineering Technicians	57	414	2,854	142,515
	Total	57	414	2,854	142,515

Occupation Breakdown - Change

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States	
17-3023	Electrical and Electronics Engineering Technicians		3	0	-19	2,143
	Total		3	0	-19	2,143

Occupation Breakdown - Median Hourly Earnings

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
17-3023	Electrical and Electronics Engineering Technicians	\$32.16	\$30.68	\$30.83	\$29.70
	Total	\$32.16	\$30.68	\$30.83	\$29.70








Top Industries – Change from 2018 - 2023

NAICS Code	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
541330	Engineering Services	4	-2	-2	986
221122	Electric Power Distribution	--	--	14	40
901149	US Postal Service	--	0	-7	-498
901199	Federal Government, Civilian, Excluding Postal Service	0	2	2	-72
903999	Local Government, Excluding Education and Hospitals	--	0	5	160
	Total	4	0	13	617

Source: QCEW Employees, Non-QCEW Employees & Self-Employed - Emsi 2017.3 Class of Worker

National Educational Attainment

Electrical and Electronics Engineering Technicians (17-3023)

	Education Level	2016 Percent
●	Less than high school diploma	4.0% 
●	High school diploma or equivalent	22.6% 
●	Some college, no degree	33.5% 
●	Associate's degree	21.6% 
●	Bachelor's degree	15.2% 
●	Master's degree	2.6% 
●	Doctoral or professional degree	0.5% 

* *National Educational Attainment – Settings*

Appendix A - Data Sources and Calculations

Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

Occupation Data

EMSI occupation employment data are based on final EMSI industry data and final EMSI staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level EMSI earnings by industry.

Completers Data

The completers data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Industry Data

EMSI industry data have various sources depending on the class of worker. (1) For QCEW Employees, EMSI primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns and Current Employment Statistics. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.

Staffing Patterns Data

The staffing pattern data in this report are compiled from several sources using a specialized process. For QCEW and Non-QCEW Employees classes of worker, sources include Occupational Employment Statistics, the National Industry-Occupation Employment Matrix, and the American Community Survey. For the Self-Employed and Extended Proprietors classes of worker, the primary source is the American Community Survey, with a small amount of information from Occupational Employment Statistics.

State Data Sources

This report uses state data from the following agencies: Arizona Department of Administration, Office of Employment and Population Statistics