

Chemistry Occupation Report



CIP 40.0501

Cochise, Pima, SC






Chemistry, General

CIP 2010: A general program that focuses on the scientific study of the composition and behavior of matter, including its micro- and macro-structure, the processes of chemical change, and the theoretical description and laboratory simulation of these phenomena.

Occupation Gender Breakdown 2016

	Gender	Jobs	Percent
•	Males	164	61.5% 
•	Females	103	38.5% 

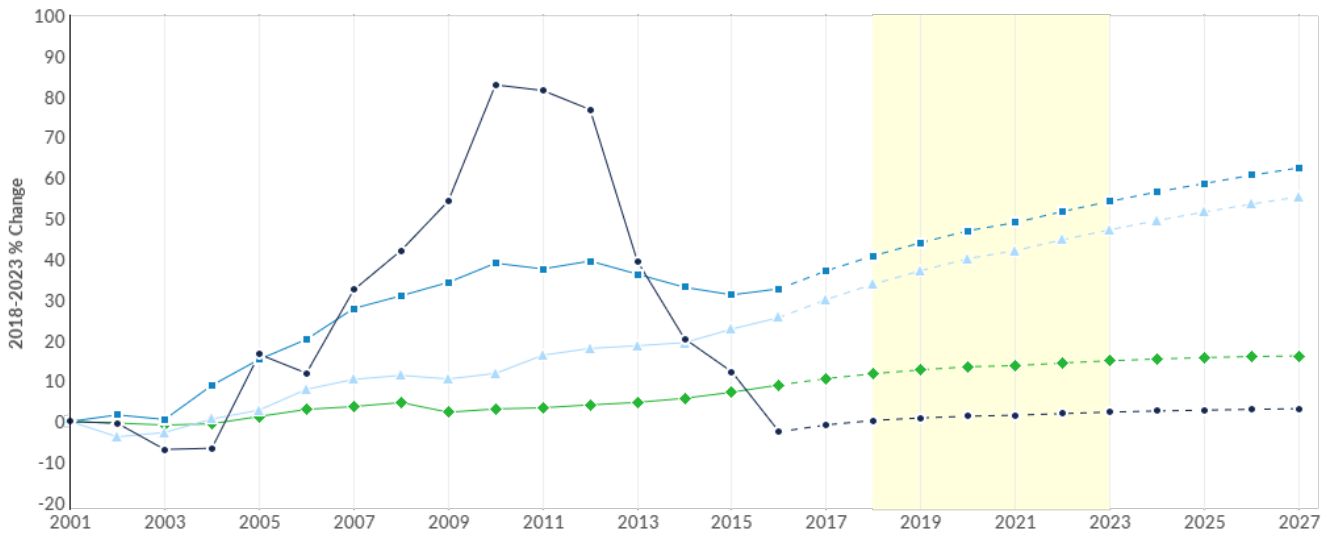
Occupation Age Breakdown 2016

	Age	Jobs	Percent
•	14-18	0	0.0%
•	19-24	7	2.7% 
•	25-34	49	18.2% 
•	35-44	63	23.8% 
•	45-54	71	26.6% 
•	55-64	61	22.7% 
•	65+	16	5.9% 

Occupation Summary for 40.0501

267 Jobs (2016) 38% below National average	9.5% % Change (2018-2023) Nation: 2.8%	\$41.88/hr Median Hourly Earnings Nation: \$43.50/hr
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Occupation Change Summary



	Region	2018 Jobs	2023 Jobs	Change	% Change	Median Hourly Earnings
●	Cochise County, AZ	20	21	1	5%	\$44.14
●	Cochise, Pima, SC	283	310	27	10%	\$41.88
●	Arizona (AZ)	1,704	1,874	170	10%	\$40.91
●	United States	147,447	151,643	4,196	3%	\$43.50

SOC	Description	Typical Entry Level Education	Work Experience Required	Typical On-The-Job Training
11-9121	Natural Sciences Managers	Bachelor's degree	5 years or more	None
19-2031	Chemists	Bachelor's degree	None	None

Occupation Breakdown - 2018 Jobs

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
11-9121	Natural Sciences Managers	16	192	1,022	57,738
19-2031	Chemists	<10	91	682	89,709
	Total	20	283	1,704	147,447

Occupation Breakdown - 2023 Jobs

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
11-9121	Natural Sciences Managers	16	206	1,097	59,671
19-2031	Chemists	<10	104	777	91,972
	Total	21	310	1,874	151,643

Occupation Breakdown - Change

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
11-9121	Natural Sciences Managers	0	14	75	1,933
19-2031	Chemists	--	13	95	2,263
	Total	1	27	170	4,196

Occupation Breakdown - Median Hourly Earnings

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
19-2031	Chemists	--	\$30.21	\$34.37	\$35.45
11-9121	Natural Sciences Managers	\$43.09	\$49.49	\$45.64	\$57.62
	Total	\$43.30	\$43.41	\$41.25	\$44.11

Top Industries – Change 2018-2023

NAICS Code	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
541330	Engineering Services	--	--	0	90
541711	Research and Development in Biotechnology	--	1	19	937
561110	Office Administrative Services	--	--	4	69
901199	Federal Government, Civilian, Excluding Postal Service	0	5	5	-248
902999	State Government, Excluding Education and Hospitals	--	--	2	142
	Total	1	6	30	989

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

National Educational Attainment
Natural Sciences Managers (11-9121)

	Education Level	2016 Percent
●	Less than high school diploma	0.6%
●	High school diploma or equivalent	1.4%
●	Some college, no degree	4.0% ■
●	Associate's degree	2.3% ■
●	Bachelor's degree	33.2% ■■
●	Master's degree	31.4% ■■
●	Doctoral or professional degree	27.2% ■■

* National Educational Attainment - Settings

National Educational Attainment
Chemists (19-2031)

	Education Level	2016 Percent
●	Less than high school diploma	0.1%
●	High school diploma or equivalent	0.3%
●	Some college, no degree	2.7% ■
●	Associate's degree	4.4% ■
●	Bachelor's degree	54.4% ■■■■
●	Master's degree	19.7% ■■
●	Doctoral or professional degree	18.4% ■■

* 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