

Physics Occupation Report

CIP 40.0801

Cochise, Pima, SC

Physics, General

CIP 2010: A general program that focuses on the scientific study of matter and energy, and the formulation and testing of the laws governing the behavior of the matter-energy continuum. Includes instruction in classical and modern physics, electricity and magnetism, thermodynamics, mechanics, wave properties, nuclear processes, relativity and quantum theory, quantitative methods, and laboratory methods

Occupation Gender Breakdown 2016

Gender	Jobs	Percent
Males	129	63.2%
Females	75	36.8%

Occupation Age Breakdown 2016

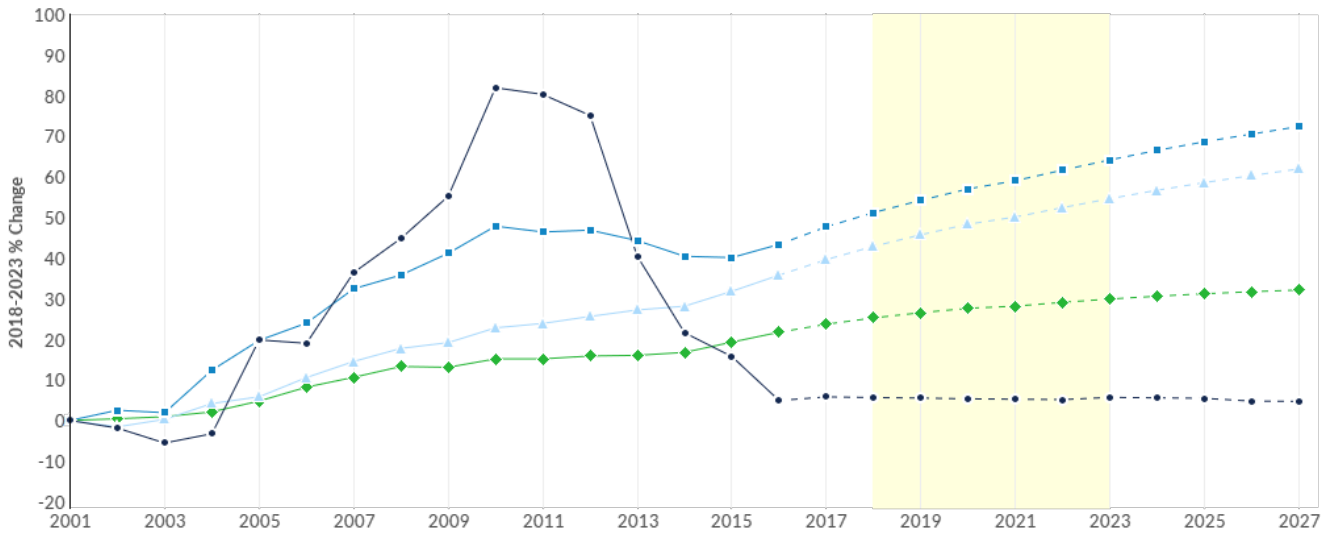
Age	Jobs	Percent
14-18	0	0.0%
19-24	5	2.5%
25-34	32	15.9%
35-44	49	23.7%
45-54	56	27.4%
55-64	49	23.9%
65+	14	6.7%

Occupation Summary for 40.0801

<p>204 Jobs (2016) 7% below National average</p>	<p>8.3% % Change (2018-2023) Nation: 3.7%</p>	<p>\$50.13/hr Median Hourly Earnings Nation: \$57.21/hr</p>
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October 10, 2017

Occupation Change Summary



Region	2018 Jobs	2023 Jobs	Change	% Change	Median Hourly Earnings
● Cochise County, AZ	18	18	0	0%	\$45.21
● Cochise, Pima, SC	216	234	18	8%	\$50.13
● Arizona (AZ)	1,132	1,225	93	8%	\$46.45
● United States	75,767	78,576	2,809	4%	\$57.21

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
19-2012	Physicists	Doctoral or professional 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
19-2012	Physicists	<10	24	110	18,028
	Total	18	216	1,132	75,767

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
19-2012	Physicists	<10	28	128	18,905
	Total	18	234	1,225	78,576

Occupation Breakdown - Change

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
19-2012	Physicists	--	4	18	877
11-9121	Natural Sciences Managers	0	14	75	1,933
	Total	0	18	93	2,809

Occupation Breakdown - Median Hourly Earnings

Occupation	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
19-2012	Physicists	--	\$54.66	\$55.46	\$55.71
11-9121	Natural Sciences Managers	\$43.09	\$49.49	\$45.64	\$57.62
	Total	\$46.80	\$50.04	\$46.56	\$57.17

Top Industries – Change from 2018 - 2023

NAICS Code	Description	Cochise County, AZ	Cochise, Pima, SC	Arizona (AZ)	United States
541330	Engineering Services	--	--	0	49
541711	Research and Development in Biotechnology	--	1	13	591
541712	Research and Development in the Physical, Engineering, and Life Sciences (except Biotechnology)	--	9	25	829
901199	Federal Government, Civilian, Excluding Postal Service	0	3	3	-237
902999	State Government, Excluding Education and Hospitals	--	--	1	79
	Total	0	14	43	1,311

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

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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

Physicists (19-2012)

	Education Level	2016 Percent
●	Less than high school diploma	0.4%
●	High school diploma or equivalent	0.1%
●	Some college, no degree	3.0% ■
●	Associate's degree	2.2%
●	Bachelor's degree	22.2% ■■■■■
●	Master's degree	16.0% ■■■■■
●	Doctoral or professional degree	56.2% ■■■■■

* 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