

Occupation Report

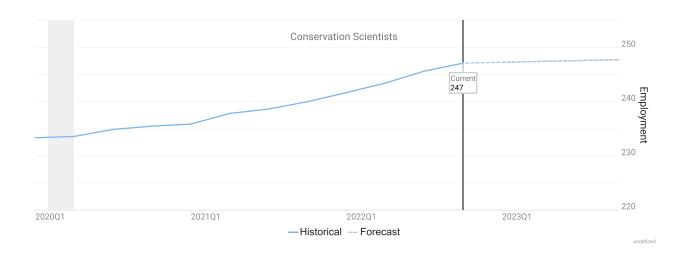
Conservation Scientists

Sacramento-Roseville-Folsom, CA MSA

Occupation Snapshot	3
Employment by Industry	
Wages	
Occupation Demographics	θ
Education Profile	
Postsecondary Programs Linked to Conservation Scientists	8
RTI (Job Postings)	<u></u>
Top Skill and Certification Gaps	13
Geographic Distribution	14
Sacramento-Roseville-Folsom, CA MSA Regional Map	
Data Notes	
Region Definition	
FAQ	19

Occupation Snapshot

		Avg		3-Year		Forecast
		Mean		Empl	Annual	Ann
6-Digit Occupation	Empl	Wages	LQ	Change	Demand	Growth
Conservation Scientists	247	\$92,600	1.48	15	23	0.3%





"Annual Demand" is the projected need for new entrants into an occupation. New entrants are needed due to expected growth and to replace workers who left the occupation due to factors such as retirement or switching careers.



"Forecast Ann Growth" is the expected change in jobs due to national, long-term trend projections (per the BLS) as well as local factors such as industry mix and population growth (as computed and modeled by Chmura).

Employment by Industry

-Year otal mand
56
32
29
29
27
28
8
3
3
3
2
2
5

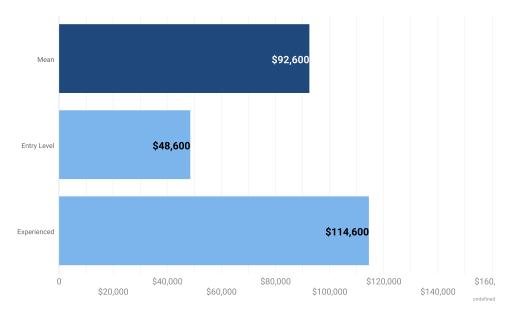


The industry distribution indicates the industries in which workers in the occupation(s) are primarily found.



"10-Year Empl Growth" may show industries with positive as well as negative growth; this would indicate that the occupation(s) being examined are expected to expand within some industries while contracting in others.

Wages



Occupation	Mean	Median	Entry Level	Experienced
Conservation Scientists	\$92,600	\$86,500	\$48,600	\$114,600

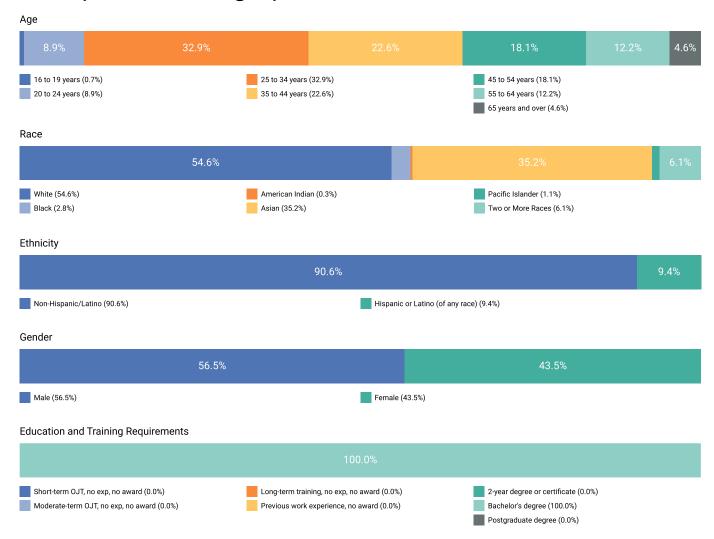


Occupation wages here utilize BLS OEWS data, imputed and brought forward by Chmura.



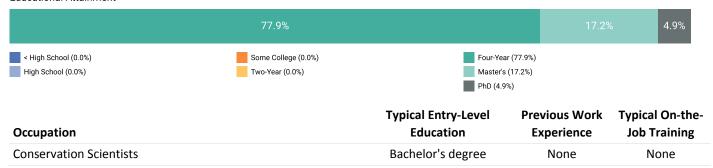
When this report is run for an occupation group, the table above displays up to the top ten detailed occupations which have the highest average wages within the occupation group.

Occupation Demographics



Education Profile

Educational Attainment





The stacked bar chart here illustrates the estimated mix of educational attainment of the workers in this occupation(s) in aggregate.



The table indicates typical education and training requirements rather than the mix of attainment of workers in such positions.

Postsecondary Programs Linked to Conservation Scientists

Program	Awards
American River College	
Natural Resources/Conservation, General	33
California State University-Sacramento	
Environmental Science	57
Sierra College	
Environmental Studies	17
University of California-Davis	
Agroecology and Sustainable Agriculture	43
Ecology	34
Ecology and Evolutionary Biology	39
Environmental Science	124
Environmental Studies	80
Natural Resources/Conservation, General	63
Wildlife, Fish and Wildlands Science and Management	88



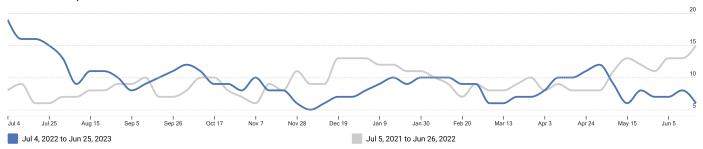
The number of graduates from postsecondary programs in the region identifies the pipeline of future workers as well as the training capacity to support industry demand.



Among postsecondary programs at schools located in the Sacramento-Roseville-Folsom, CA MSA, the sampling above identifies those most linked to Conservation Scientists. For a complete list see JobsEQ®, http://www.chmuraecon.com/jobseq

RTI (Job Postings)

Active Job Ads by Date





Online job ads are a timely indicator of local demand. Occupation assignments shown below are made by Chmura based upon analysis of job titles and job descriptions. Top employers and listed job requirements are shown on the following pages.

Occupations

SOC	Occupation	Active Job Ads	
19-1031.00	Conservation Scientists	27	
19-1031.03	Park Naturalists	27	
19-1031.02	Range Managers	7	

Locations

Location	Active Job Ads	
Sacramento, California	22	
Sacramento County, California	8	
South Lake Tahoe, CA 96150	5	
Sacramento, CA, 94203, US	3	
University of California Davis	3	
95613	2	
Elk Grove, California	2	
Norden, CA 95724	2	
Roseville, California	2	
Sacramento, CA 95814-2604	2	

Employers

	Active Job	
Employer Name	Ads	
State of California Department of Parks & Recreation	9	
gpac	8	
CA DEPARTMENT OF PARKS AND RECREATION	7	
SACRAMENTO SUBURBAN WAT	4	
City of South Lake Tahoe	3	
The Nature Conservancy	3	
American Water	2	
City of Roseville, CA	2	
City of Sacramento	2	
Coloma Outdoor Discovery School	2	

Hard Skills

	Active Job	
Skill Name	Ads	
Personal Computers (PC)	11	
Telecommunications	8	
Keyboarding/Typing	6	
Microsoft Excel	4	
Microsoft Office	4	
Word Processing	4	
Ability to Lift 41-50 lbs.	3	
Microsoft Outlook	3	
Microsoft Word	3	
Plumbing	3	

Job Titles

Job Title	Active Job Ads	
	7 Aus	
STATE PARK SUPERINTENDENT II		
Insurance Defense Associate	5	
STATE PARK SUPERINTENDENT III	3	
Water Conservation Specialist	3	
Junior Specialist Conservation Irrigation Laboratory & Herbarium (Dept of LAWR, UC Davis)	2	
Outdoor/ Naturalist Educator	2	
PARK INTERPRETIVE SPECIALIST (SEASONAL)	2	
STATE PARK INTERPRETER II	2	
Staten Island Preserve Director and Conservation-Compatible Agricultural Practices Adviser	2	
Terrain Park Ranger	2	

Education Levels

Minimum Education Level	Active Job Ads
Bachelor's degree	14
High school diploma or equivalent	6
Associate's degree	3
Master's degree	1
Unspecified/other	37

Programs

Program Name	Active Job Ads	
Biology	3	
Wildlife Management	3	
Ecology	2	
Environmental Science	2	
Natural Resource Management	2	
Zoology	2	
Agronomy	1	
Horticulture	1	
Plant/Soil Science	1	
Recreation	1	

Top Skill and Certification Gaps

Top 10 Skill Gaps in Sacramento-Roseville-Folsom, CA MSA

Name	Candidates	Openings	Gap
Microsoft Word	0	2	-2
Keyboarding/Typing	0	2	-2
Microsoft Excel	2	4	-2
Plumbing	0	2	-2
ESRI ArcMap	0	1	-1
Public Relations	0	1	-1
Telecommunications	0	1	-1
Physiology	0	1	-1
Data Entry	0	1	0
Microsoft PowerPoint	1	1	0

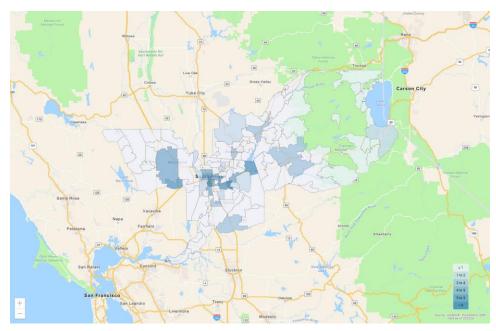
Top 10 Certification Gaps in Sacramento-Roseville-Folsom, CA MSA

Name	Candidates	Openings	Gap
Certification in Cardiopulmonary Resuscitation (CPR)	1	1	-1
First Aid Certification	1	1	-1
Certified Crop Advisor (CCA)	1	0	1



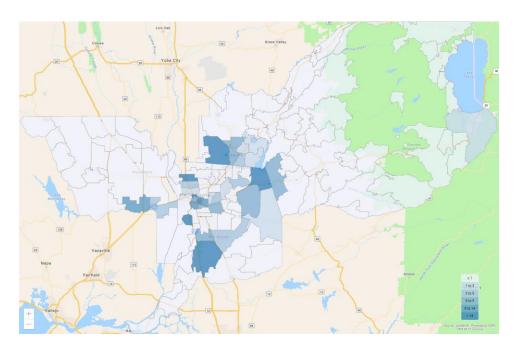
Skill and certifications gaps can help inform employee development programs, as well as provide a comparison of the needs of regional employers to the supply.

Geographic Distribution



Top ZCTAs by Place of Work for Conservation Scientists, 2022Q4

Region	Employment
ZCTA 95814	97
ZCTA 95811	17
ZCTA 95827	13
ZCTA 95818	9
ZCTA 95630	8
ZCTA 95826	6
ZCTA 95616	6
ZCTA 95825	6
ZCTA 95833	5
ZCTA 95834	5



Top ZCTAs by Place of Residence for Conservation Scientists, 2022Q4

	Region	Employment
ZCTA 95831		24
ZCTA 95816		17
ZCTA 95630		17
ZCTA 95747		15
ZCTA 95757		14
ZCTA 95835		14
ZCTA 95818		13
ZCTA 95819		13
ZCTA 95616		12
ZCTA 95811		9



"Place of work" employment is based upon the location of employers for these workers. "Place of residence" data refers to the home locations of the workforce, which is typically the preferred data set to use when calculating labor availability within a drive-time or radius of a potential worksite.

Sacramento-Roseville-Folsom, CA MSA Regional Map



Data Notes

- Occupation employment by default indicates employment by place of work. Occupation employment is as of 2022Q4 and is based on industry employment and local staffing patterns calculated by Chmura and utilizing BLS OEWS data.
 Employment forecasts are modeled by Chmura and are consistent with BLS national-level 10-year forecasts. Wages by occupation are as of 2022Q4, utilizing BLS OEWS data, imputed and brought forward by Chmura. Entry-level and experienced wages are derived from these source data, computed by Chmura.
- Industry employment is as of 2022Q4 and is based upon BLS QCEW data, imputed by Chmura where necessary, and supplemented by additional sources including Census ZBP data.
- Education and training requirements are from the BLS. Educational attainment mix and other occupation demographics data are modeled by Chmura for 2022Q4 using regional occupation employment from JobsEQ, ZCTA-level demographics data from the Census Bureau, and national occupation-demographics patterns from the BLS.
- Postsecondary awards are per the NCES and are for the 2020-2021 academic year. Any programs shown are linked with
 the occupation(s) being analyzed via the program-occupation crosswalk, which may not be comprehensive. Any
 programs shown reflect only data reported to the NCES; reporting is required of all Title IV schools. Training providers
 that do not report data to the NCES are not reflected.
- Job ads data are online job posts from the Real-Time Intelligence (RTI) data set, produced wholly by Chmura and gleaned from over 40,000 websites. Data reflect ads active during the last twelve month period ending 07/05/2023 and advertised for any Zip Code Tabulation Area in or intersecting with the region for which this report was produced. Historical ad volume is revised as additional data are made available and processed. Since many extraneous factors can affect short-term volume of online job postings, time-series data can be volatile and should be used with caution. All ad counts represent deduplicated figures.
- For skill and certification gaps, openings and candidates are based upon regional occupation demand (growth plus separations) and the percent of skill demand and supply. Skill demand mix data are per a one-year sample of RTI data; skill supply data are estimated using a five-year sample of resumes data; both data sets compiled as of August 2021.
 Data may be based, at least in part, on data from broader geographies; see the Skill Gaps analytic export for more details
- Occupation gaps are modeled by Chmura, indicating long-term potential supply and demand mismatches in a region due, in part, to job demand and labor pool dyanamics, including educational attainment and projected growth.
- Occupation employment by place of residence is as of 2022Q4 and modeled by Chmura based upon occuaption
 employment by place of work and commuting patterns. Commuting patterns are derived from source data from the
 Census Bureau, occupation-specific commuting tendancies, and updated to reflect more recent population and
 employment estimates.
- Figures may not sum due to rounding.

Region Definition

Sacramento-Roseville-Folsom, CA MSA is defined as the following counties:

El Dorado County, California	Sacramento County, California
Placer County, California	Yolo County, California

FAC

What is (LQ) location quotient?

Location quotient is a measurement of concentration in comparison to the nation. An LQ of 1.00 indicates a region has the same concentration of an industry (or occupation) as the nation. An LQ of 2.00 would mean the region has twice the expected employment compared to the nation and an LQ of 0.50 would mean the region has half the expected employment in comparison to the nation.

What is annual demand?

Annual demand is a of the sum of the annual projected growth demand and separation demand. Separation demand is the number of jobs required due to separations—labor force exits (including retirements) and turnover resulting from workers moving from one occupation into another. Note that separation demand does not include all turnover—it does not include when workers stay in the same occupation but switch employers. Growth demand is the increase or decrease of jobs expected due to expansion or contraction of the overall number of jobs.