



Occupation Report

Industrial Production Managers

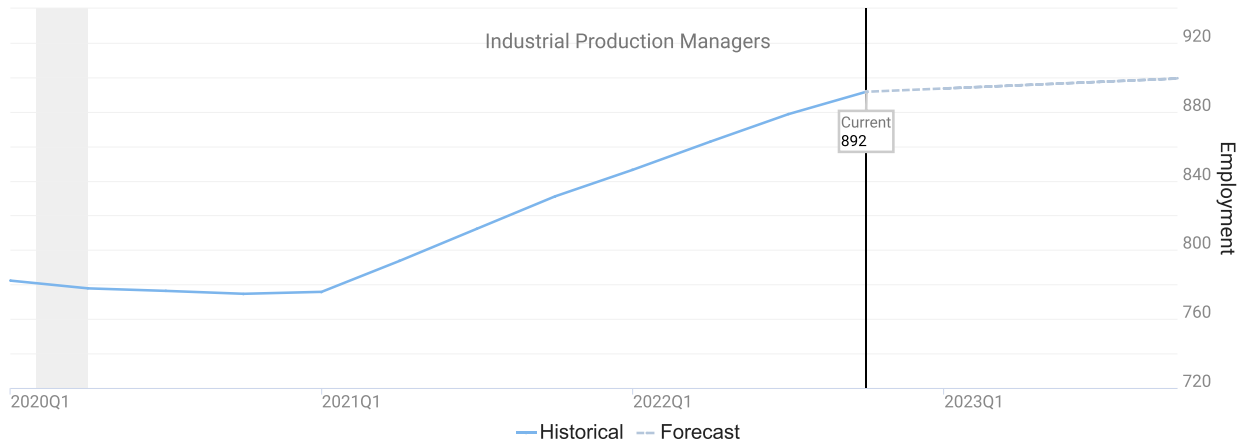
Sacramento-Roseville-Folsom, CA MSA



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Occupation Snapshot

6-Digit Occupation	Empl	Avg Mean Wages	LQ	3-Year Empl Change	Annual Demand	Forecast Ann Growth
Industrial Production Managers	892	\$126,800	0.61	118	73	0.9%
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- 💡 “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).

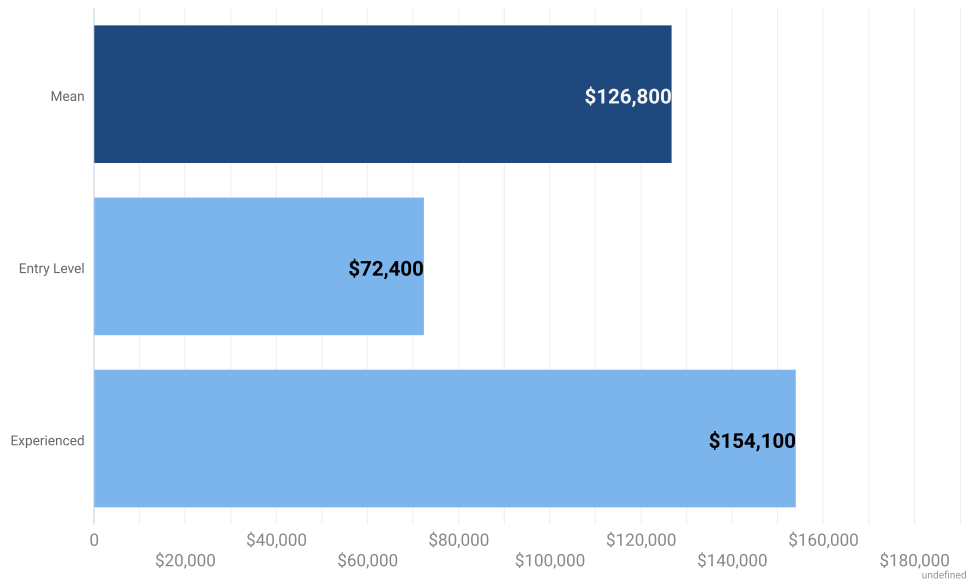
Employment by Industry

Industry Title	% of Occ Empl	Empl	10-Year Separations	10-Year Empl Growth	10-Year Total Demand
Scientific Research and Development Services	5.7%	51	38	7	46
Management of Companies and Enterprises	4.4%	39	29	3	32
Railroad Rolling Stock Manufacturing	3.8%	34	23	-3	20
Medical Equipment and Supplies Manufacturing	3.5%	31	24	5	29
Architectural and Structural Metals Manufacturing	3.1%	27	21	4	25
Other Food Manufacturing	3.0%	26	20	4	24
Other Miscellaneous Manufacturing	2.9%	26	20	4	24
Printing and Related Support Activities	2.7%	24	16	-4	12
Architectural, Engineering, and Related Services	2.4%	21	15	1	17
Beverage Manufacturing	2.3%	21	15	2	17
Other Wood Product Manufacturing	2.3%	20	15	3	18
Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing	2.2%	20	15	4	19
Plastics Product Manufacturing	2.2%	20	15	3	18
Computer and Peripheral Equipment Manufacturing	2.1%	18	14	2	15
Water, Sewage and Other Systems	1.9%	17	13	2	15
Pharmaceutical and Medicine Manufacturing	1.9%	17	13	2	15
Natural Gas Distribution	1.8%	16	12	1	13
Cement and Concrete Product Manufacturing	1.6%	14	10	1	11
Metalworking Machinery Manufacturing	1.5%	13	9	0	9
Motor Vehicle Parts Manufacturing	1.5%	13	10	2	11
All Others	47.4%	423	312	37	350

 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

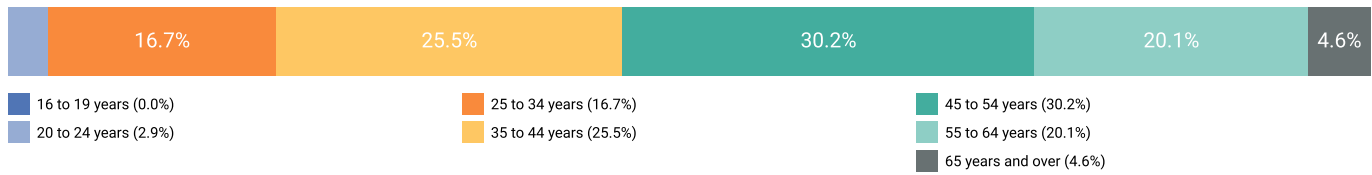


Occupation	Mean	Median	Entry Level	Experienced
Industrial Production Managers	\$126,800	\$114,900	\$72,400	\$154,100

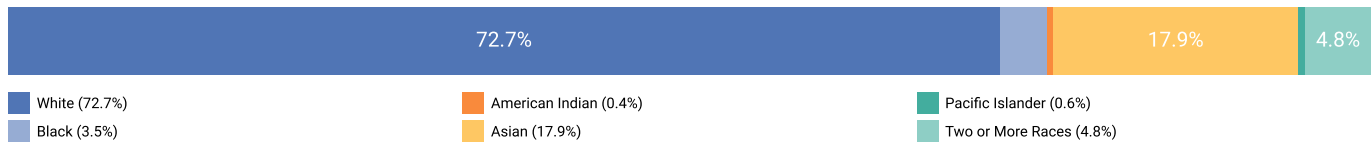
- 💡 Occupation wages here utilize BLS OEWS data, imputed and brought forward by Chmura.
- 💡 When this report is run for an occupation group, the table above displays up to the top ten detailed occupations which have the highest average wages within the occupation group.

Occupation Demographics

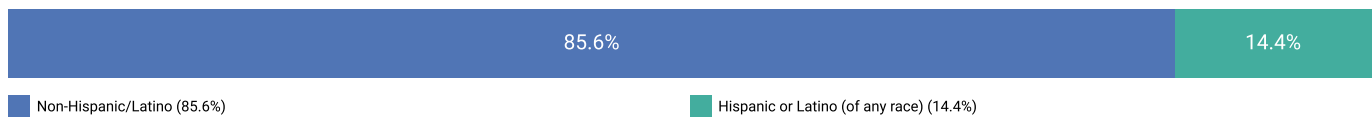
Age



Race



Ethnicity



Gender

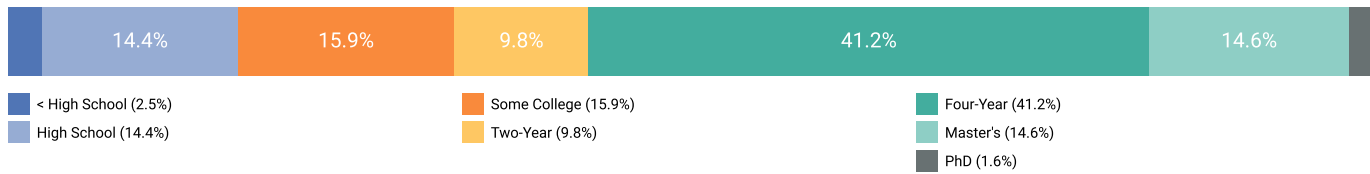


Education and Training Requirements



Education Profile

Educational Attainment



Occupation	Typical Entry-Level Education	Previous Work Experience	Typical On-the-Job Training
Industrial Production Managers	Bachelor's degree	5 years or more	None


 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 Industrial Production Managers

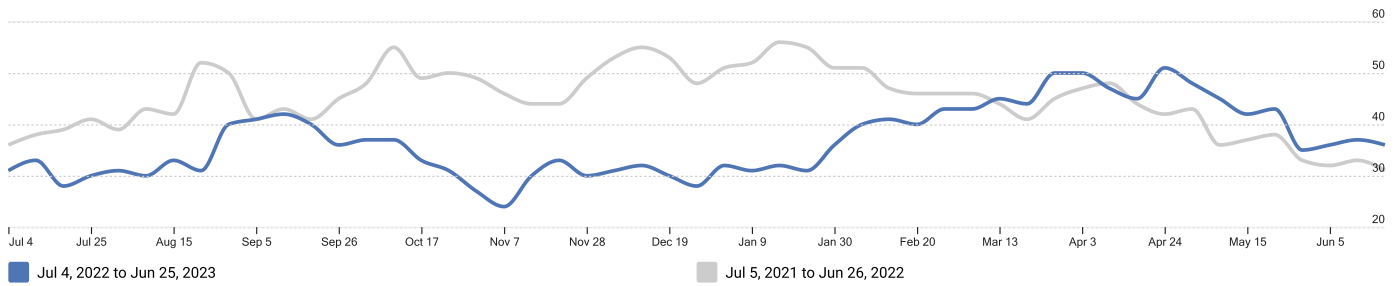
Program	Awards
American River College	
Business Administration and Management, General	294
California State University-Sacramento	
Business Administration and Management, General	1,188
Cosumnes River College	
Business Administration and Management, General	224
Business/Commerce, General	39
Folsom Lake College	
Business Administration and Management, General	176
Sacramento City College	
Business Administration and Management, General	207
Sierra College	
Business Administration and Management, General	369
Business/Commerce, General	75
William Jessup University	
Business Administration and Management, General	139
Woodland Community College	
Business Administration and Management, General	49


 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 Industrial Production Managers. 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
11- 3051.01	Quality Control Systems Managers	142
11- 3051.00	Industrial Production Managers	96
11- 3051.06	Hydroelectric Production Managers	15
11- 3051.04	Biomass Power Plant Managers	2

Locations

Location	Active Job Ads	
Sacramento, California	72	
Sacramento County, California	13	
Sacramento, CA, US, 95826	10	
Woodland, California	10	
Rocklin, California	7	
West Sacramento, CA 95605	7	
Dixon, California	5	
West Sacramento, California	5	
95814	4	
Folsom, California	4	

Employers

Employer Name	Active Job Ads	
State of California Department of Water Resources	13	
Pacific Gas And Electric Company	9	
Gainwell	7	
gpac	6	
DTE Energy	5	
Aerotek	4	
Atlas Technical Consultants	4	
Jobot	4	
MAXIMUS	4	
Peoples Care Behavioral Health	4	


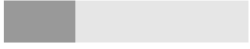
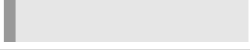
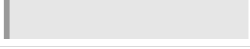

Hard Skills

Skill Name	Active Job Ads	
Manufacturing	56	
Microsoft Office	48	
Microsoft Excel	42	
Quality Management	29	
Lean Six Sigma	21	
Microsoft Word	20	
Lean Manufacturing	18	
Internal Auditing	17	
Microsoft PowerPoint	16	
Spanish	14	

Job Titles

Job Title	Active Job Ads	
Production Manager	22	
Quality Manager	19	
Quality Assurance Manager	12	
Plant Manager	9	
Assistant Plant Manager	7	
Quality Control Manager	7	
01SGRP - Quality Assurance	5	
Construction Quality Manager	5	
ASSOCIATE HYDROELECTRIC POWER UTILITY ENGINEER	4	
Associate Quality Systems Specialist	3	

Education Levels

Minimum Education Level	Active Job Ads	
Bachelor's degree	123	
High school diploma or equivalent	36	
Associate's degree	6	
Master's degree	3	
Unspecified/other	87	

Programs

Program Name	Active Job Ads	
Engineering	33	
Business	17	
Mechanical Engineering	14	
Chemistry	12	
Science	10	
Food Science	9	
Business Administration	8	
Biology	7	
Operations Management	7	
Life Science	6	

Top Skill and Certification Gaps

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

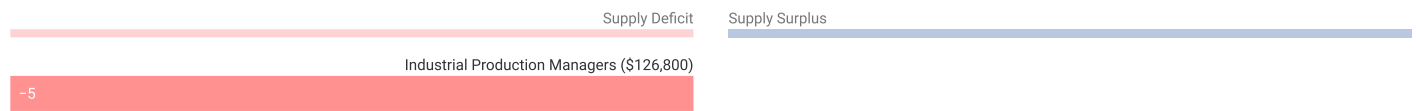
Name	Candidates	Openings	Gap
Manufacturing	16	21	-5
Lean Six Sigma	6	10	-4
Personal Computers (PC)	1	4	-3
Microsoft Word	4	7	-3
Kaizen	2	6	-3
Change Management	0	3	-3
Microsoft Excel	13	16	-3
Quality Management	2	5	-2
Word Processing	0	2	-2
5S	0	3	-2



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

Name	Candidates	Openings	Gap
OSHA 30	0	1	-1
Six Sigma Black Belt Certification (SSBB)	0	1	-1
Certified Welding Inspector (CWI)	0	1	-1
Certified Quality Engineer (CQE)	0	1	-1
Certified Public Accountant (CPA)	0	1	-1
Certified Manager of Quality/Organizational Excellence (CMQ/OE)	0	1	-1
Certified Master Black Belt (ASQ Master Black Belt)	0	1	0
Certified Quality Auditor (CQA)	1	1	0
Six Sigma Green Belt Certification (SSGB)	1	1	0

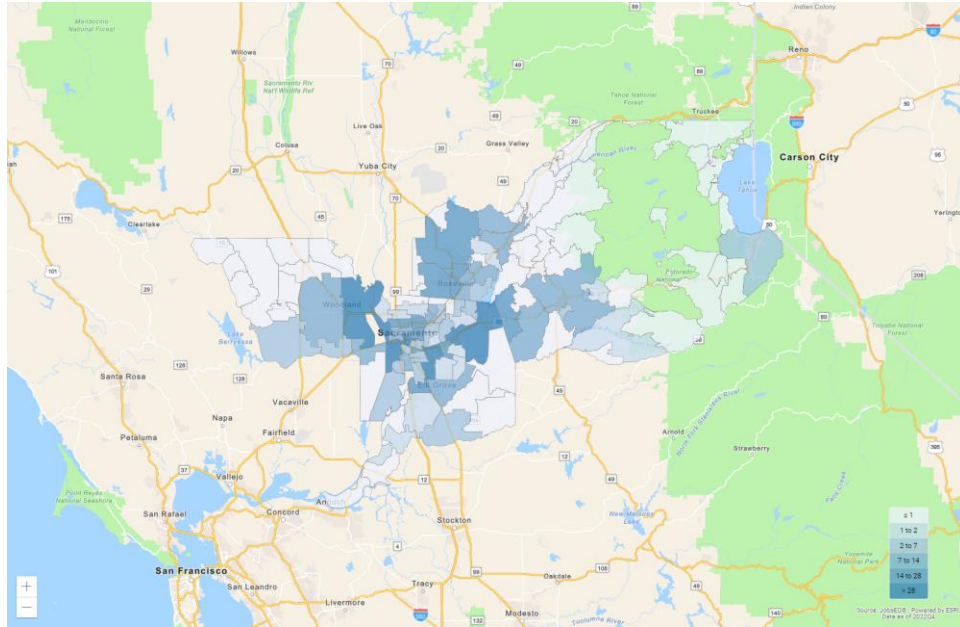
 Skill and certifications gaps can help inform employee development programs, as well as provide a comparison of the needs of regional employers to the supply.

Occupation Gaps



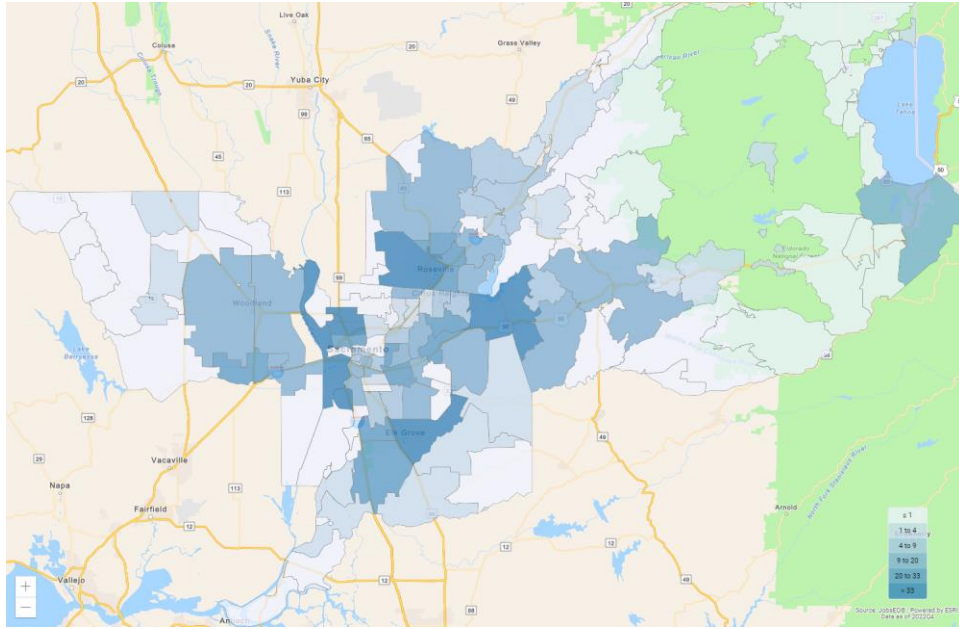
-  The above are the potential average annual gaps over 10 years. Many variables go into this analysis, but at its core it is based on a forecast comparing occupation demand growth to the local population growth and the projected educational attainment of those residents. When an area, for example, has an occupation expected to grow quickly but the educational requirement for the occupation does not match well with the educational attainment of its residents, there is a high potential for an occupation shortfall in the region. Alternatively, slow-growing or contracting occupations often represent potential supply surpluses.
-  The potential supply shortfall is an underlying force that the market needs to resolve one way or another, such as by employers recruiting from further distances for these occupations, wages going up to attract more candidates, and/or increased demand and wages enticing more local residents to get training for these occupations. While this an important analysis for determining local occupation needs, the occupation gap should be considered along with other regional data including growth and separation forecasts, unemployment rates, wage trends, and award and skill gap analyses.

Geographic Distribution



Top ZCTAs by Place of Work for Industrial Production Managers, 2022Q4

Region	Employment
ZCTA 95828	83
ZCTA 95742	55
ZCTA 95776	50
ZCTA 95691	45
ZCTA 95670	37
ZCTA 95814	34
ZCTA 95826	33
ZCTA 95630	29
ZCTA 95811	28
ZCTA 95827	27

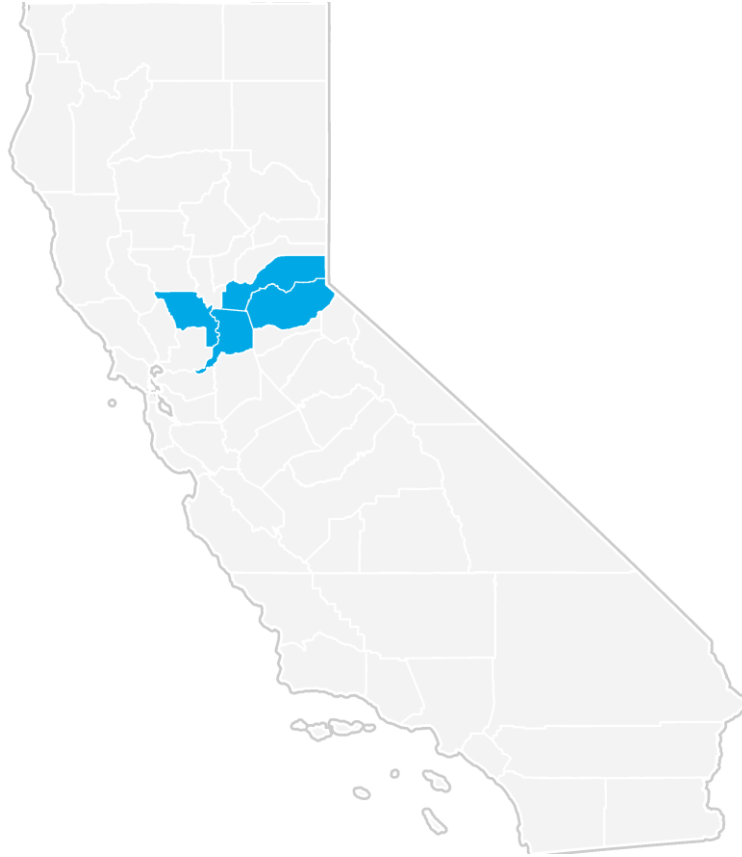


Top ZCTAs by Place of Residence for Industrial Production Managers, 2022Q4

Region	Employment
ZCTA 95630	54
ZCTA 95747	45
ZCTA 95835	39
ZCTA 95831	37
ZCTA 95691	36
ZCTA 95762	35
ZCTA 95624	34
ZCTA 95678	34
ZCTA 95834	33
ZCTA 95758	32

💡 “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 06/29/2023 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 dynamics, including educational attainment and projected growth.
- Occupation employment by place of residence is as of 2022Q4 and modeled by Chmura based upon occupation employment by place of work and commuting patterns. Commuting patterns are derived from source data from the Census Bureau, occupation-specific commuting tendencies, 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

Placer County, California

Sacramento County, California

Yolo County, California

FAQ

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.