



## Occupation Report

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# Computer Science Teachers, Postsecondary

Sacramento-Roseville-Folsom, CA MSA

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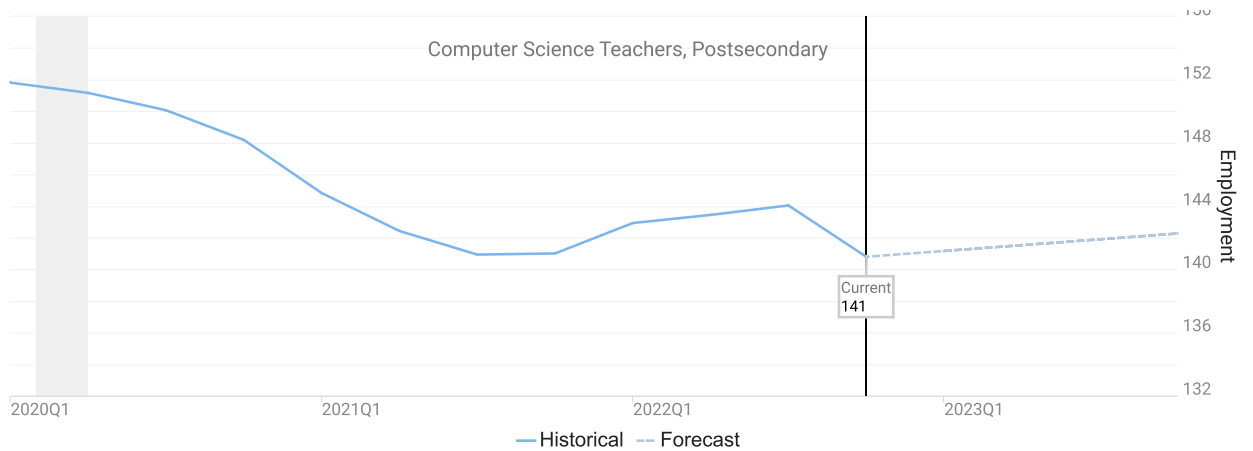
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# Occupation Snapshot

6-Digit Occupation	Empl	Avg Mean Wages	LQ	3-Year Empl Change	Annual Demand	Forecast Ann Growth
Computer Science Teachers, Postsecondary	141	\$146,000	0.54	-11	14	1.0%



- 💡 “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).

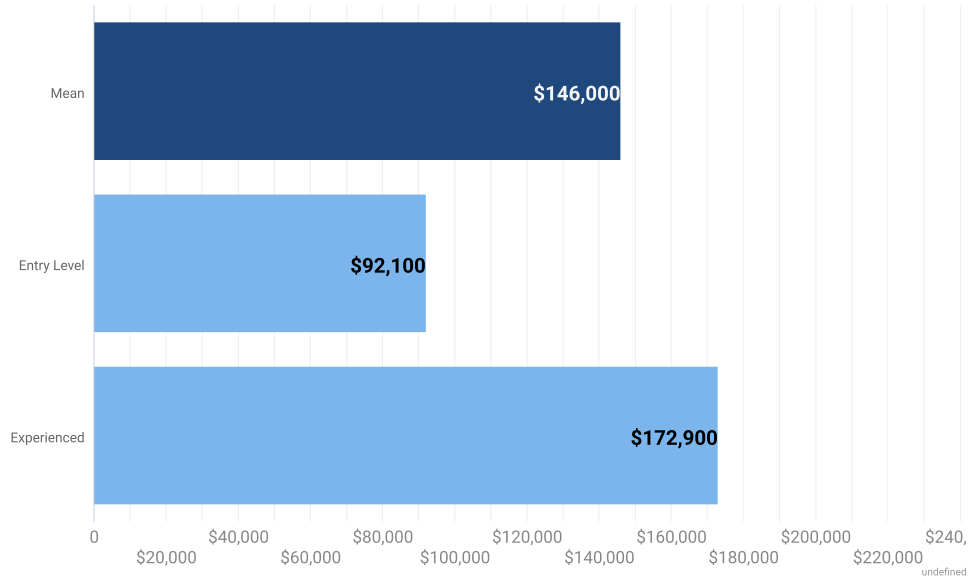
# Employment by Industry

Industry Title	% of Occ Empl	Empl	10-Year Separations	10-Year Empl Growth	10-Year Total Demand
Colleges, Universities, and Professional Schools	73.2%	103	90	13	103
Junior Colleges	24.2%	34	29	2	30
Technical and Trade Schools	1.0%	1	1	0	2
Business Schools and Computer and Management Training	0.9%	1	1	0	1
All Others	0.6%	1	1	0	1

 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

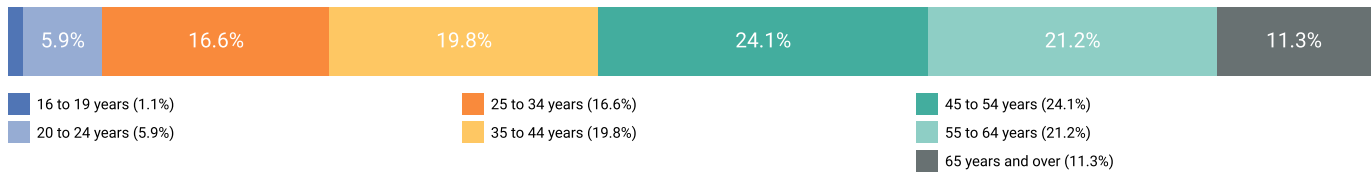


Occupation	Mean	Median	Entry Level	Experienced
Computer Science Teachers, Postsecondary	\$146,000	\$138,300	\$92,100	\$172,900

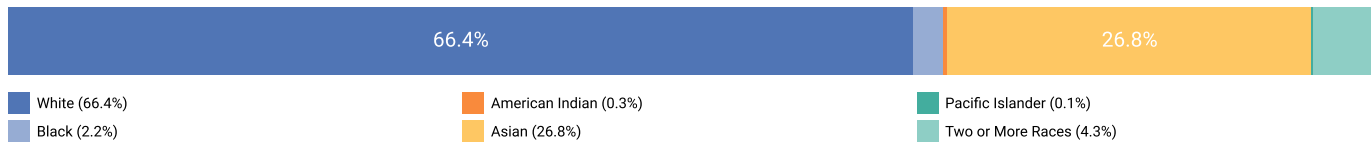
- 💡 Occupation wages here utilize BLS OEWS data, imputed and brought forward by Chmura.
- 💡 When this report is run for an occupation group, the table above displays up to the top ten detailed occupations which have the highest average wages within the occupation group.

# Occupation Demographics

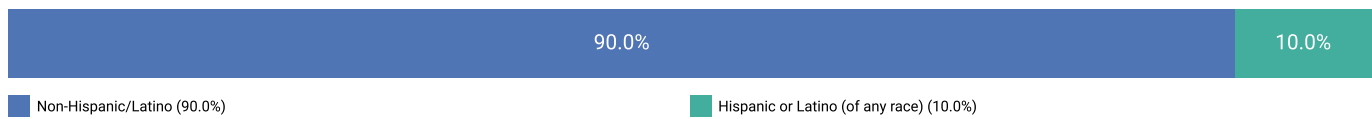
## Age



## Race



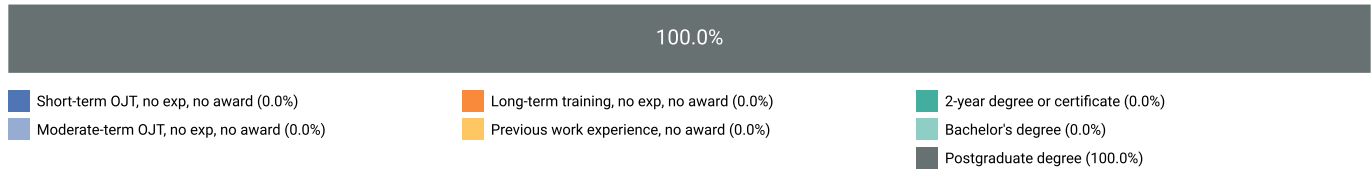
## Ethnicity



## Gender

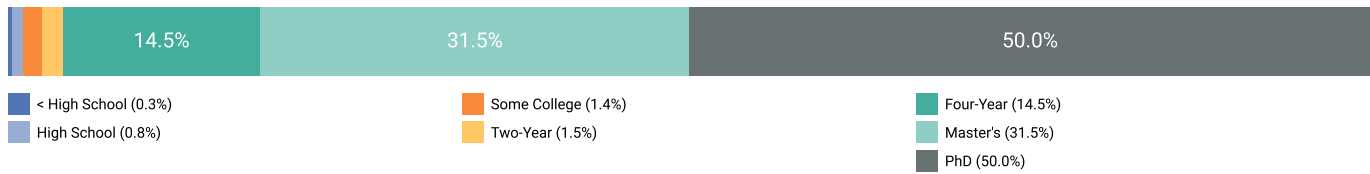


## Education and Training Requirements



# Education Profile

## Educational Attainment





Occupation	Typical Entry-Level Education	Previous Work Experience	Typical On-the-Job Training
Computer Science Teachers, Postsecondary	Doctoral or professional degree	None	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 Computer Science Teachers, Postsecondary

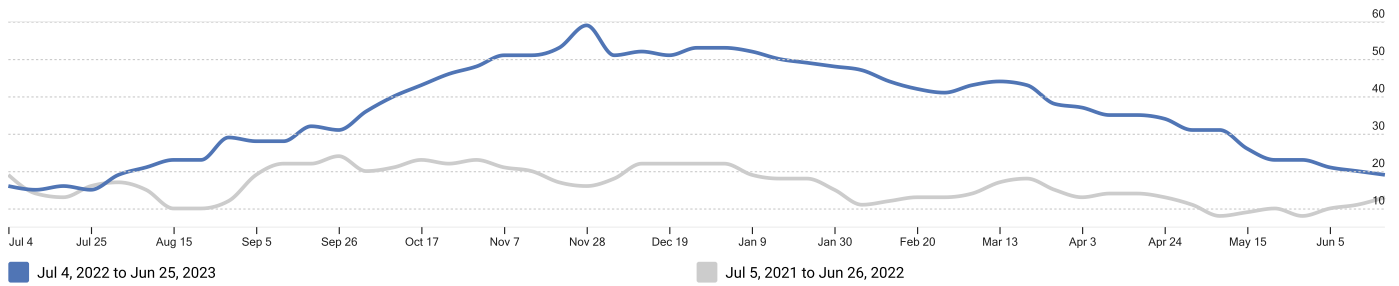
Program	Awards
<b>American River College</b>	
Computer Programming/Programmer, General	27
Computer Science	43
Computer Systems Networking and Telecommunications	23
<b>California State University-Sacramento</b>	
Computer Science	310
<b>MTI College</b>	
Cloud Computing	17
<b>Sacramento City College</b>	
Computer Programming/Programmer, General	38
Computer Systems Networking and Telecommunications	34
<b>Sierra College</b>	
Computer Programming/Programmer, General	32
Computer Systems Networking and Telecommunications	40
<b>University of California-Davis</b>	
Computer Science	444

-  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 Computer Science Teachers, Postsecondary. 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
25- 1021.00	Computer Science Teachers, Postsecondary	157

### Locations

Location	Active Job Ads	
6000 J Street, Sacramento, CA 95819, USA	54	
Sacramento, California	22	
Sacramento County, California	18	
University of California Davis	15	
Yolo County, California	11	
Davis, California	4	
95826-9003	3	
95667	2	
95677	2	
95678	2	

### Employers

Employer Name	Active Job Ads	
CSU, Sacramento	54	
Davis, California	13	
State of California Peace Officer Standards and Training	10	
State of California State Controller's Office	9	
University of California, Davis	8	
Pearson	6	
State of California Department of Veterans Affairs	5	
Los Rios Community College District	4	
California Department of Corrections and Rehabilitation	3	
California State University, Sacramento	3	

### Hard Skills

Skill Name	Active Job Ads	
Teaching/Training, School	76	
Mathematics	10	
Personal Computers (PC)	10	
Keyboarding/Typing	9	
Microsoft Office	8	
Information Security	7	
Apple	5	
Machine Learning	5	
Oracle PeopleSoft	5	
Python	5	

### Job Titles

Job Title	Active Job Ads	
INFORMATION TECHNOLOGY ASSOCIATE	24	
Scoring Assistant - Computer Science & Technology Education	6	
INFORMATION TECHNOLOGY MANAGER I	4	
INFORMATION TECHNOLOGY SUPERVISOR II	4	
Tenure Track Faculty - Computer Science [3 Positions]	4	
Computer Information Systems (Cybersecurity) Adjunct Assistant Professor Pool	3	
Cyber Security Engineer	3	
Neuroradiologist (2 Positions)	3	
Tenure Track Faculty - Design Studies	3	
Tenure-Track Faculty - Management & Organizations	3	

### Education Levels

Minimum Education Level	Active Job Ads	
Bachelor's degree	72	
Associate's degree	10	
Doctoral or professional degree	5	
Master's degree	4	
Unspecified/other	66	

### Programs

Program Name	Active Job Ads	
Audiology	54	
Gerontology	54	
Physical Therapy	54	
Public History	54	
School Psychology	54	
Computer Science	32	
Information Systems	10	
Business Administration	8	
Communications	8	
Computer Engineering	6	

# Top Skill and Certification Gaps

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

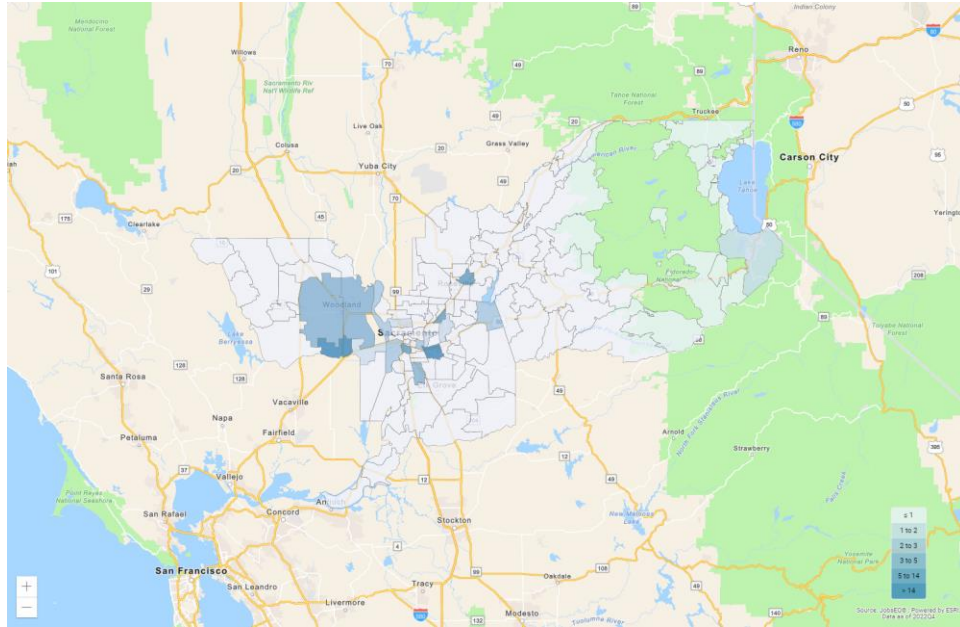
Name	Candidates	Openings	Gap
Calculators	0	3	-3
Microsoft Excel	0	2	-1
Microsoft Word	0	1	-1
Telecommunications	0	1	-1
Microsoft PowerPoint	0	1	-1
ServiceNow	0	1	-1
Structured Query Language (SQL)	0	1	0
CSS	0	1	0
JavaScript	0	1	0
Mathematics	0	1	0

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

Name	Candidates	Openings	Gap
Certified Information Systems Security Professional (CISSP)	1	0	1

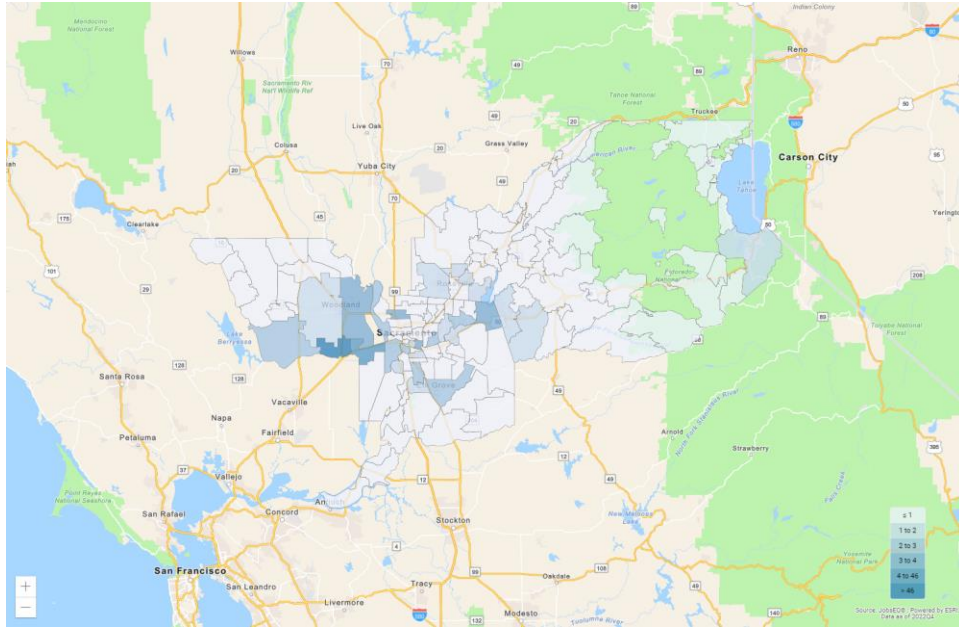
 Skill and certifications gaps can help inform employee development programs, as well as provide a comparison of the needs of regional employers to the supply.

# Geographic Distribution



**Top ZCTAs by Place of Work for Computer Science Teachers, Postsecondary, 2022Q4**

Region	Employment
ZCTA 95616	65
ZCTA 95826	15
ZCTA 95841	8
ZCTA 95818	6
ZCTA 95677	5
ZCTA 95695	5
ZCTA 95823	4
ZCTA 95776	3
ZCTA 95630	3
ZCTA 95819	2

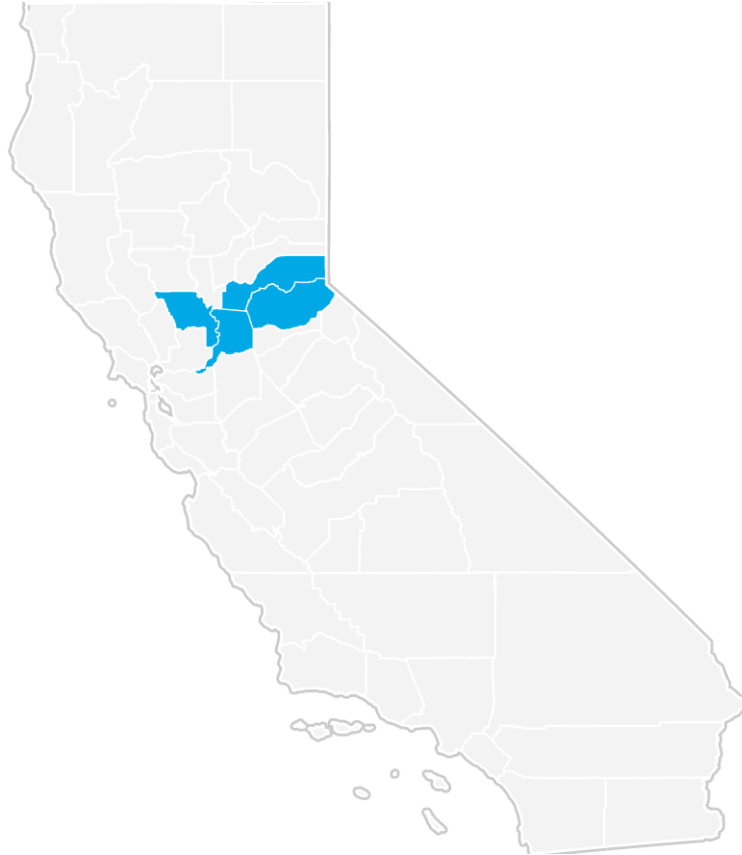


**Top ZCTAs by Place of Residence for Computer Science Teachers, Postsecondary, 2022Q4**

Region	Employment
ZCTA 95616	47
ZCTA 95618 (Yolo County, CA portion)	23
ZCTA 95630	4
ZCTA 95776	4
ZCTA 95819	4
ZCTA 95835	3
ZCTA 95624	3
ZCTA 95691	3
ZCTA 95818	2
ZCTA 95864	2

💡 “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

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Placer County, California

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Sacramento County, California

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Yolo County, California

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# 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.