JOBSEQ

Occupation Report

Physician Assistants

Sacramento-Roseville-Folsom, CA MSA

Occupation Snapshot 3
Employment by Industry 4
Wages 5
Occupation Demographics 6
Education Profile 7
RTI (Job Postings) 8
Top Skill and Certification Gaps 12
Occupation Gaps 13
Geographic Distribution 14
Sacramento-Roseville-Folsom, CA MSA Regional Map 16
Data Notes 17
Region Definition 18
FAQ 19

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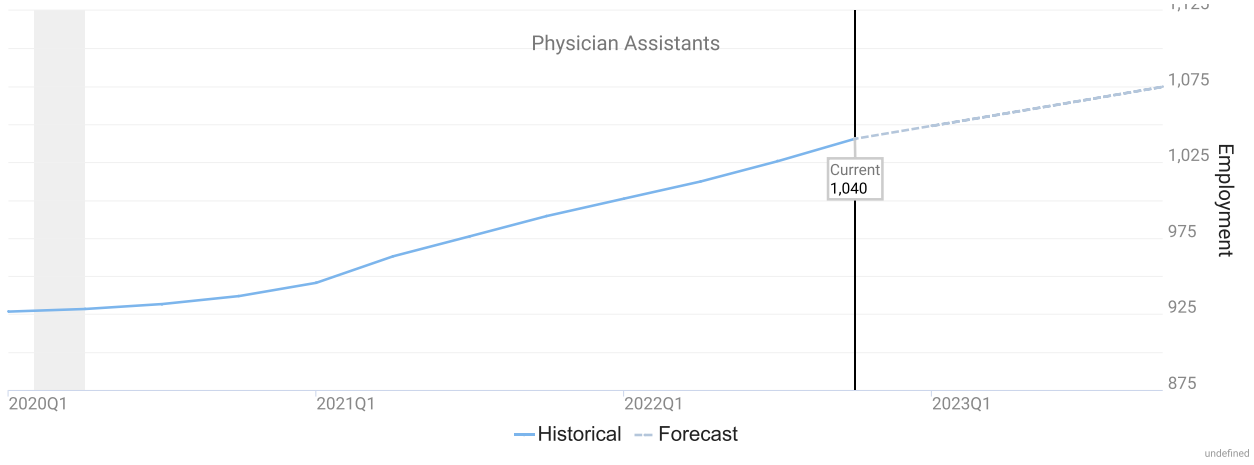
Occupation Snapshot

6-Digit Occupation	Empl	Avg Mean Wages	LQ	3-Year Empl Change	Annual Demand	Forecast Ann Growth
Physician Assistants	1,040	$162,600	1.07	123	98	3.3%
Physician Assistants	**1,040**	**$162,600**	**1.07**	**123**	**98**	**3.3%**



"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).

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Employment by Industry

Industry Title	% of Occ Empl	Empl	10-Year Separations	10-Year Empl Growth	10-Year Total Demand
Offices of Physicians	37.8%	394	252	151	403
Outpatient Care Centers	32.5%	338	227	174	401
General Medical and Surgical Hospitals	17.6%	183	115	58	173
Employment Services	3.5%	37	21	3	24
Colleges, Universities, and Professional Schools	3.2%	33	19	4	23
Offices of Other Health Practitioners	0.8%	8	5	2	7
Executive, Legislative, and Other General Government Support	0.6%	7	4	0	4
All Others	4.0%	41	24	6	30

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.

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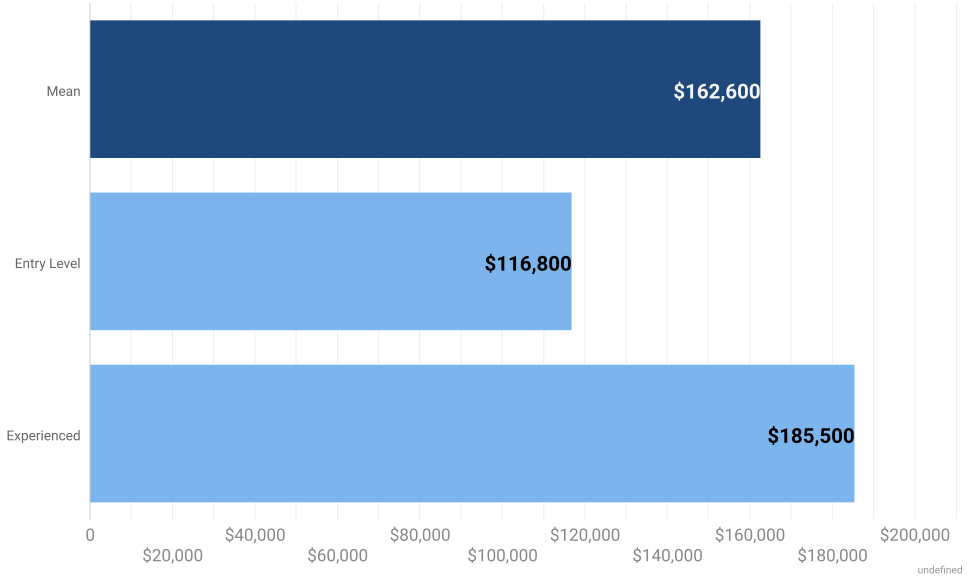
Wages



Occupation	Mean	Median	Entry Level	Experienced
Physician Assistants	$162,600	$172,500	$116,800	$185,500

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.

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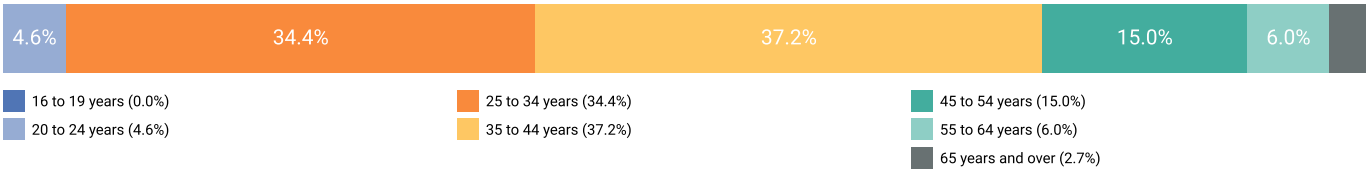
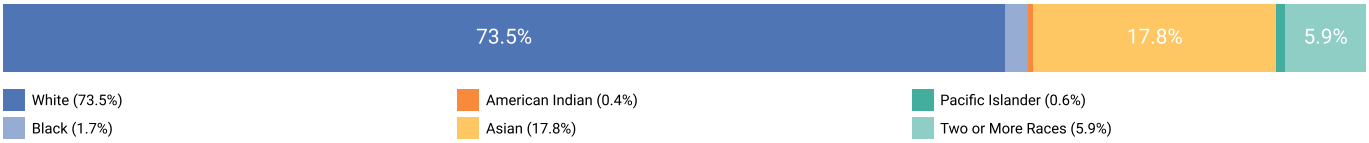
Occupation Demographics

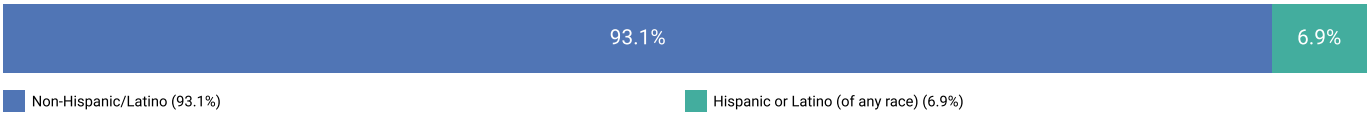
Age



Race

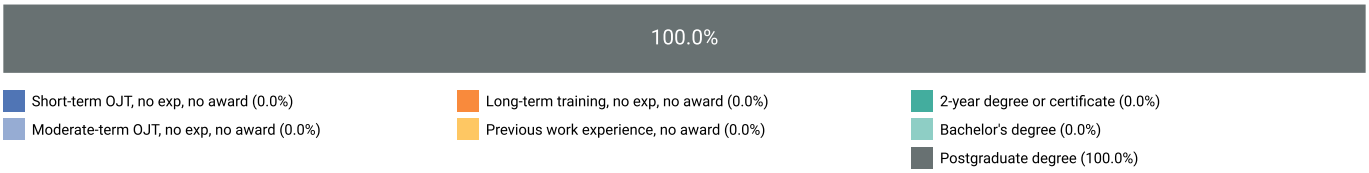


Ethnicity



Gender

Education and Training Requirements



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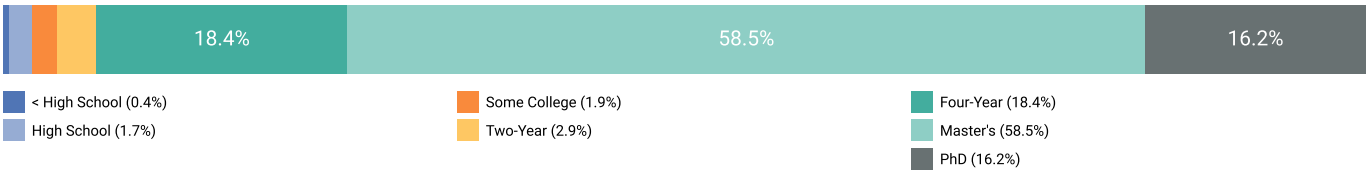
Education Profile

Educational Attainment



Occupation	Typical Entry-Level Education	Previous Work Experience	Typical On-the-Job Training
Physician Assistants	Master's 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.

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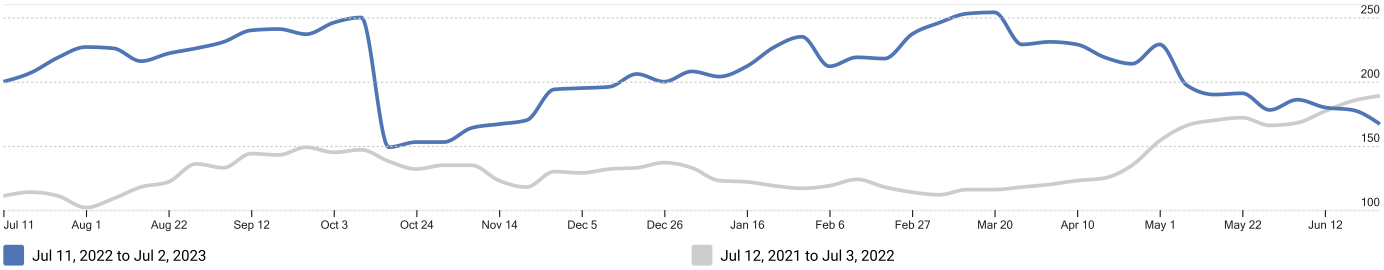
RTI (Job Postings)

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	
29-1071.00	Physician Assistants	982	
29-1071.01	Anesthesiologist Assistants	53	

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Locations

Location	Active Job Ads
Sacramento, California	250
University of California Davis	201
Roseville, California	62
University of California Davis Health System	62
Carmichael, California	23
Folsom, California	22
Elk Grove, California	20
Davis, California	19
Sacramento, CA 95816	16
Woodland, California	16

Employers

Employer Name	Active Job Ads
Sacramento, California	176
Kaiser Permanente	94
Davis, California	85
Concentra	54
Carbon Health	51
Sutter Health Sacramento Sierra Region	28
Dignity Health	27
University of California, Davis	26
Vituity	20
All Medical Personnel	14

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Hard Skills

Skill Name	Active Job Ads
Ability to Lift 21-30 lbs.	191
Wound Care	135
Electrocardiogram (ECG, EKG)	105
Critical Care	60
Pediatrics	48
Physiology	44
Clinical Research	37
Electronic Medical Record System (EMR System)	37
Anesthesia Machines	30
Workers' Compensation	30

Job Titles

Job Title	Active Job Ads
Physician Assistant	24
Physician-Urgent Care	17
Physician Assistant / Nurse Practitioner	15
Hematology/Oncology Physician	12
Physician	12
Physician Assistant - Orthopedics	11
Urgent Care Physician	11
Senior Physician Assistant - Orthopedics	10
Family Practice Physician	9
Surgical Float Team Physician Assistant	9

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Education Levels

Minimum Education Level	Active Job Ads
Master's degree	172
High school diploma or equivalent	24
Bachelor's degree	24
Associate's degree	5
Unspecified/other	810

Programs

Program Name	Active Job Ads
Physician Assistant	123
Medicine	33
Health	14
Science	12
Nursing	5
Biology	3
Business	2
Business Administration	2
Life Science	2
Nurse Practitioner	2

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Top Skill and Certification Gaps

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

Name	Candidates	Openings	Gap
Microsoft Office	0	3	-3
Anesthesia Machines	0	3	-3
Physiology	0	2	-2
Anesthesia Equipment	0	2	-2
Clinical Research	1	3	-2
Electronic Medical Record System (EMR System)	2	3	-1
Medical Records Software	0	1	-1
Personal Computers (PC)	0	1	-1
Russian	0	1	-1
Microsoft Outlook	0	1	-1

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

Name	Candidates	Openings	Gap
Certified in Internal Medicine	0	1	-1
Emergency Medical Technician (EMT)	1	1	-1
Advanced Cardiac Life Support Certification (ACLS)	7	7	0
Pediatric Advanced Life Support (PALS)	1	1	0
Certification in Cardiopulmonary Resuscitation (CPR)	5	4	0
Advanced Trauma Life Support (ATLS)	1	0	0
Trauma Nursing Core Course (TNCC)	1	0	1
Basic Life Support (BLS)	12	11	1
Physician Assistant - Certified (PA-C)	2	1	1
Registered Nurse (RN)	6	4	2

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.

Source: JobsEQ®, http://www.chmuraecon.com/jobseq
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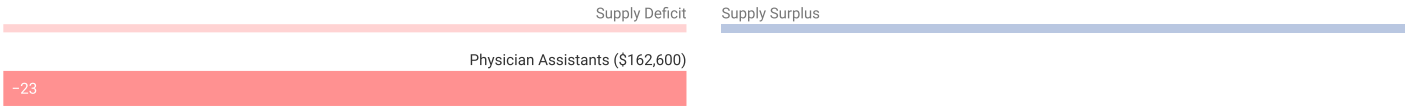
Occupation Gaps



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.

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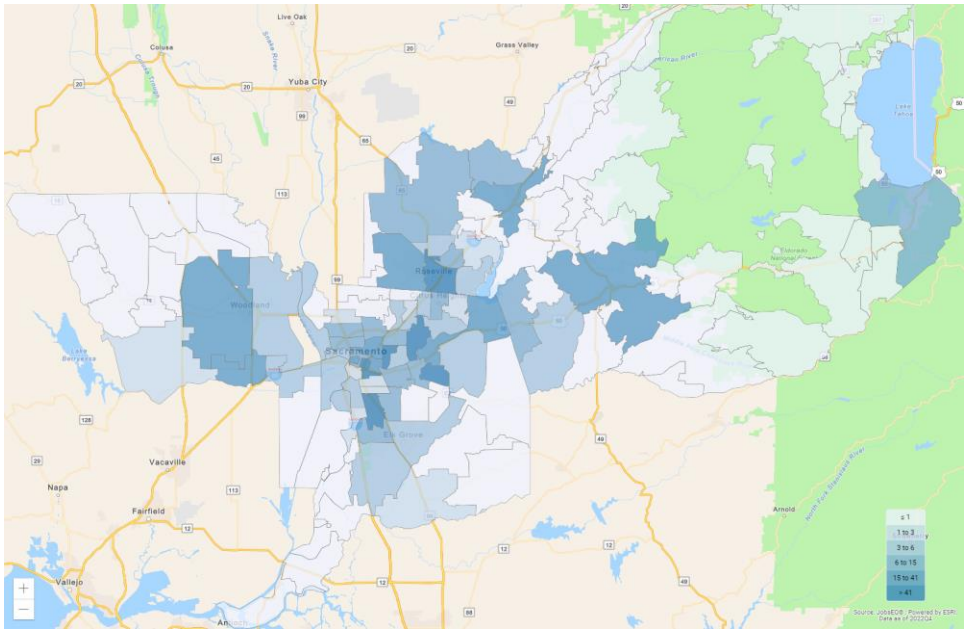
Geographic Distribution



Top ZCTAs by Place of Work for Physician Assistants, 2022Q4

Region	Employment
ZCTA 95823	105
ZCTA 95825	100
ZCTA 95661	85
ZCTA 95816	69
ZCTA 95655	66
ZCTA 95817	56
ZCTA 95678	47
ZCTA 95608	42
ZCTA 95616	38
ZCTA 95630	32

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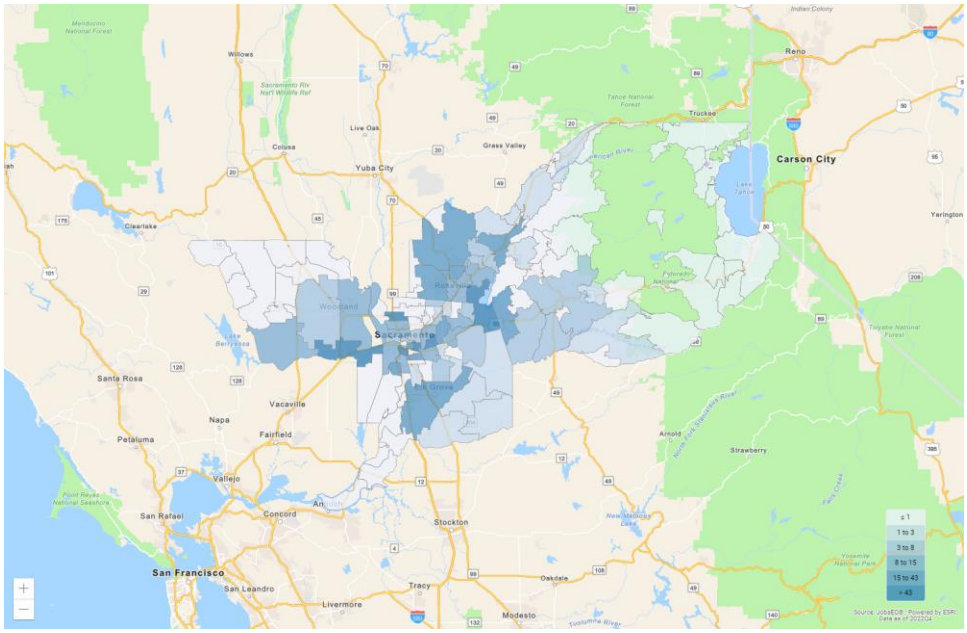

Top ZCTAs by Place of Residence for Physician Assistants, 2022Q4

Region	Employment
ZCTA 95616	90
ZCTA 95630	86
ZCTA 95618 (Yolo County, CA portion)	50
ZCTA 95746	49
ZCTA 95819	49
ZCTA 95864	48
ZCTA 95835	46
ZCTA 95818	44
ZCTA 95816	36
ZCTA 95608	35

"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.

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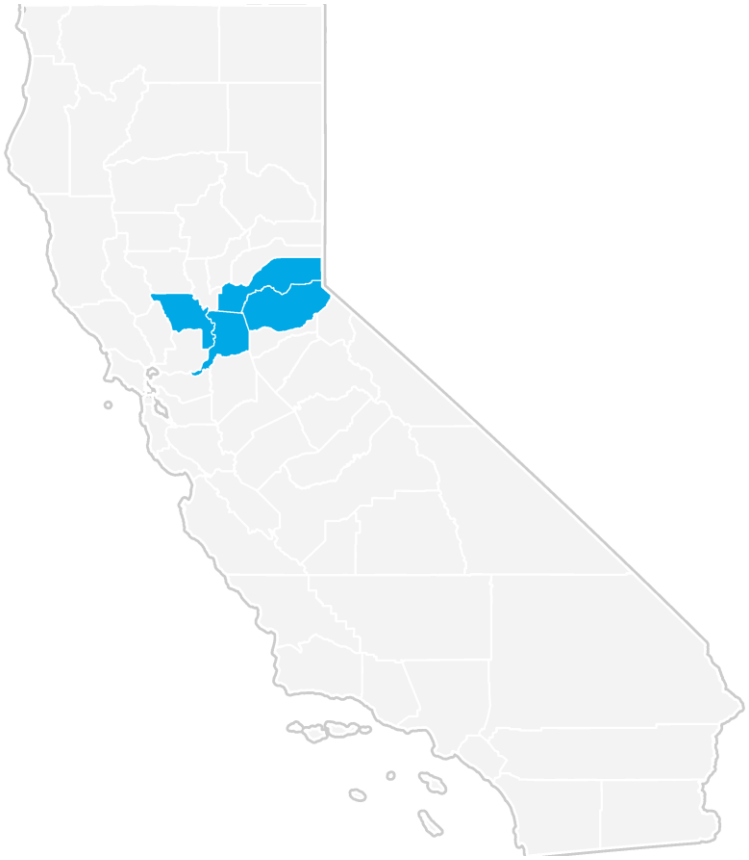
Sacramento-Roseville-Folsom, CA MSA Regional Map



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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 07/11/2023 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.

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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

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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.

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