14 Occupations in 5 California Counties

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What is Lightcast Data?

Lightcast data is a hybrid dataset derived from official government sources such as the US Census Bureau, Bureau of Economic Analysis, and Bureau of Labor Statistics. Leveraging the unique strengths of each source, our data modeling team creates an authoritative dataset that captures more than 99% of all workers in the United States. This core offering is then enriched with data from online social profiles, resumés, and job postings to give you a complete view of the workforce.

Lightcast data is frequently cited in major publications such as *The Atlantic, Forbes, Harvard Business Review, The New York Times, The Wall Street Journal,* and USA Today.

"Atlantic



Harvard Business Review The New York Times





Report Parameters

14 Occupations

17-3029	Engineering Technologists and Technicians,	15-1255	Web and Digital Interface Designers
Except Dr	afters, All Other	15-1221	Computer and Information Research
13-1111	Management Analysts	Scientists	
15-2041	Statisticians	15-1243	Database Architects
15-2051	Data Scientists	15-1253	Software Quality Assurance Analysts and
11-3021	Computer and Information Systems	Testers	
Managers		See Appen	dix A for all 14 Occupations

5 Counties

6001	Alameda County, CA	6081	San Mateo County, CA
6013	Contra Costa County, CA	6085	Santa Clara County, CA
6075	San Francisco County, CA		

Class of Worker

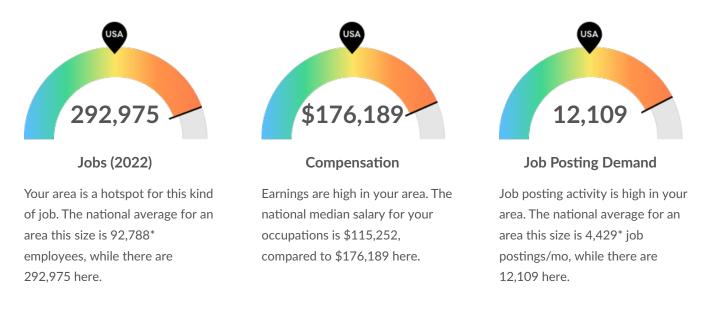
QCEW Employees

The information in this report pertains to the chosen occupations and geographical areas.



Executive Summary

Aggressive Job Posting Demand Over a Deep Supply of Regional Jobs

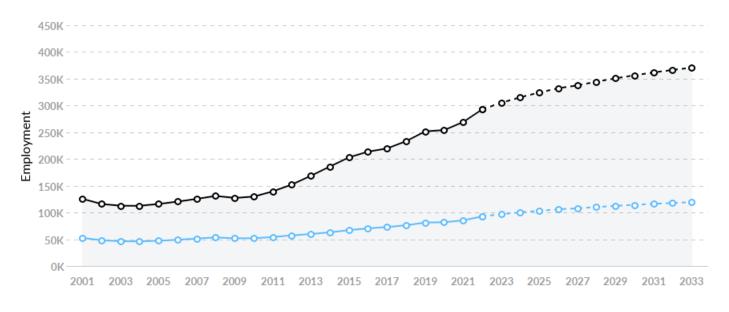


*National average values are derived by taking the national value for your occupations and scaling it down to account for the difference in overall workforce size between the nation and your area. In other words, the values represent the national average adjusted for region size.

Jobs

Regional Employment Is Higher Than the National Average

An average area of this size typically has 92,788* jobs, while there are 292,975 here. This higher than average supply of jobs may make it easier for workers in this field to find employment in your area.



	Region	2022 Jobs	2029 Jobs	Change	% Change
٠	5 California Counties	292,975	350,803	57,829	19.7%
	National Average	92,788	112,359	19,572	21.1%

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Regional Breakdown



County	2022 Jobs
Santa Clara County, CA	139,035
San Francisco County, CA	72,047
San Mateo County, CA	35,674
Alameda County, CA	35,096
Contra Costa County, CA	11,123



Most Jobs are Found in the Computer Systems Design and Related Services Industry Sector

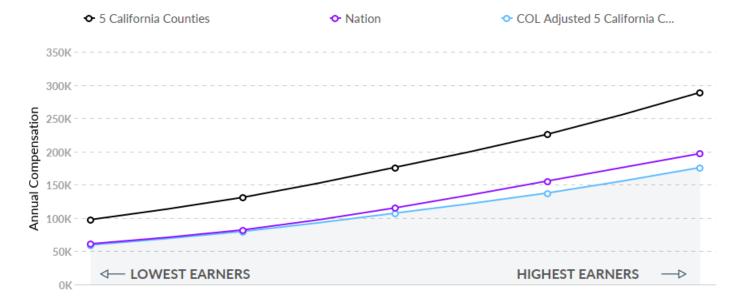


Industry	% of Occupation in Industry (2022)
Computer Systems Design and Related Services	30.8%
Software Publishers	11.2%
Web Search Portals, Libraries, Archives, and Other Information Services	8.4%
Scientific Research and Development Services	6.1%
Data Processing, Hosting, and Related Services	5.5%
Computer and Peripheral Equipment Manufacturing	5.3%
Other	32.6%



Compensation

Regional Compensation Is 53% Higher Than National Compensation



For your occupations, the 2022 median wage in your area is \$176,189, while the national median wage is \$115,252.



Job Posting Activity

230,078 Unique Job Postings	14,031 Employers Competing	27 Day Median Duration			
The number of unique postings for this job from Jan 2022 to Jul 2023.	All employers in the region who posted for this job from Jan 2022 to Jul 2023.	Posting duration is 3 days shorter than what's typical in the region.			
	 Monthly Unique Postings Estimated Hires Per Month* 				
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Occupation	Avg Monthly Postings (Jan 2022 - Jul 2023)	Avg Monthly Hires (Jan 2022 - Jul 2023)
Software Developers	6,352	4,479
Web Developers	1,095	126
Data Scientists	1,227	505
Management Analysts	920	1,266

*A hire is reported by the Quarterly Workforce Indicators when an individual's Social Security Number appears on a company's payroll and was not there the quarter before. Lightcast hires are calculated using a combination of Lightcast jobs data, information on separation rates from the Bureau of Labor Statistics (BLS), and industry-based hires data from the Census Bureau.

Occupation	Avg Monthly Postings (Jan 2022 - Jul 2023)	Avg Monthly Hires (Jan 2022 - Jul 2023)
Software Quality Assurance Analysts and Testers	670	546
Database Architects	270	79
Natural Sciences Managers	503	190
Computer Programmers	237	216
Engineering Technologists and Technicians, Except Drafters, All Other	237	101
Computer and Information Systems Managers	180	1,367
Statisticians	147	51
Computer and Information Research Scientists	116	124
Web and Digital Interface Designers	81	375
Computer Network Support Specialists	75	162

Top Companies	Unique Postings	Top Job Titles	Unique Postings
Stanford University	4,494	Software Engineers	12,988
Amazon	4,051	Data Scientists	3,952
Apple	3,217	DevOps Engineers	3,422
CyberCoders	3,163	Business Analysts	3,207
Randstad	3,031	Back End Software Engineers	2,947
Google	2,792	Full Stack Software Engineers	2,921
Motion Recruitment	2,262	Data Analysts	2,808
Capital One	1,881	Staff Software Engineers	2,695
Meta	1,659	Clinical Research Coordinators	2,634
University of California	1,649	Software Development Engineers	2,591

Top Distinguishing Skills by Demand

Not enough data to display Distinguishing Skills for this occupation.

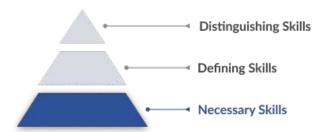


Top Defining Skills by Demand

Not enough data to display Defining Skills for this occupation.

Top Necessary Skills by Demand

An occupation's Necessary Skills are the specialized skills required for that job and relevant across other similar jobs. An employee needs these skills as building blocks to perform the more complex Defining Skills.

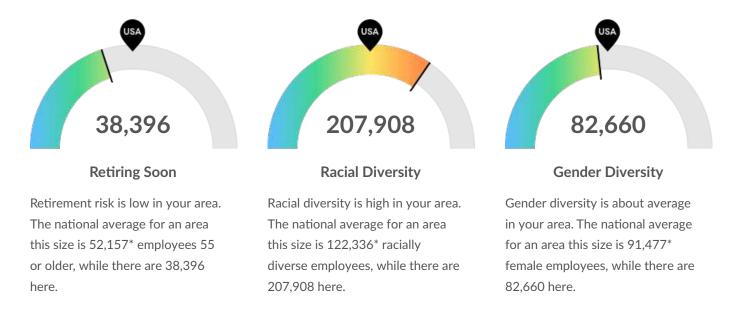


Skill	Salary Boosting	Job Postings Requesting
Computer Science	•	76,506
Python (Programming Language)	•	65,026
Software Engineering	•	61,996
Java (Programming Language)	O	48,547
Software Development	8	46,553
SQL (Programming Language)	8	42,430
Agile Methodology	\bigcirc	40,652
Amazon Web Services	O	36,661
JavaScript (Programming Language)	8	35,338
Scalability	8	35,251



Demographics

Retirement Risk Is Low, While Overall Diversity Is High



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Occupation Age Breakdown

		% of Jobs	Jobs
	14-18	0.1%	163
	• 19-24	3.4%	9,863
	• 25-34	31.2%	91,475
	35-44	31.5%	92,324
	45-54	20.7%	60,754
	55-64	10.6%	31,107
	65+	2.5%	7,289



Occupation Race/Ethnicity Breakdown

	% of Jobs	Jobs
 Asian 	60.6%	177,411
• White	29.0%	85,067
Hispanic or Latino	6.0%	17,721
Two or More Races	2.1%	6,160
Black or African American	2.0%	5,737
 Native Hawaiian or Other Pacific Islander 	0.2%	566
American Indian or Alaska Native	0.1%	312

Occupation Gender Breakdown

	% of Jobs	Jobs
 Males 	71.8%	210,314
Females	28.2%	82,660



Occupational Programs



132 Programs

Of the programs that can train for this job, 132 have produced completions in the last 5 years.



29,646 Completions (2021)

The completions from all regional institutions for all degree types.



46,278 Openings (2021)

The average number of openings for an occupation in the region is 735.

CIP Code	Top Programs	Completions (2021)
52.0201	Business Administration and Management, General	9,194
11.0701	Computer Science	2,858
26.0101	Biology/Biological Sciences, General	2,119
30.0101	Biological and Physical Sciences	2,083
27.0101	Mathematics, General	1,056
51.2201	Public Health, General	910
14.0901	Computer Engineering, General	641
11.0199	Computer and Information Sciences, Other	614
14.0903	Computer Software Engineering	568
11.0201	Computer Programming/Programmer, General	560

Top Schools	Completions (2021)
University of California-Berkeley	5,580
San Jose State University	4,203
San Francisco State University	2,821
California State University-East Bay	1,761
Stanford University	1,452
De Anza College	1,204
City College of San Francisco	1,131
Diablo Valley College	1,012
Santa Clara University	874
University of San Francisco	863

Appendix A (Occupations)

Code	Description	Code	Description
17-3029	Engineering Technologists and Technicians, Except Drafters, All Other	15-1243	Database Architects
13-1111			Software Quality Assurance Analysts and Testers
15-2041	Statisticians	15-1231	Computer Network Support Specialists
15-2051	Data Scientists	15-1251	Computer Programmers
11-3021	Computer and Information Systems	15-1252	Software Developers
	Managers		Web Developers
15-1255	Web and Digital Interface Designers	11-9121	Natural Sciences Managers
15-1221	Computer and Information Research Scientists		