



20 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, resumé, 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*.



Report Parameters

20 Occupations

13-1111 Management Analysts

15-2041 Statisticians

15-2051 Data Scientists

11-3021 Computer and Information Systems
Managers

15-1255 Web and Digital Interface Designers

15-1211 Computer Systems Analysts

15-1221 Computer and Information Research
Scientists

15-1241 Computer Network Architects

15-1242 Database Administrators

See Appendix A for all 20 Occupations

5 Counties

6001 Alameda County, CA

6013 Contra Costa County, CA

6075 San Francisco County, CA

6081 San Mateo County, CA

6085 Santa Clara County, CA

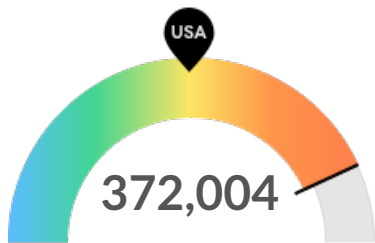
Class of Worker

QCEW Employees

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

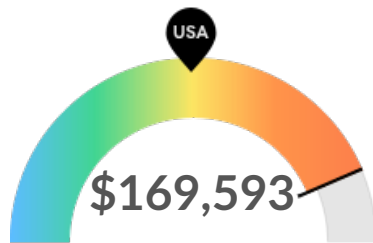
Executive Summary

Aggressive Job Posting Demand Over a Deep Supply of Regional Jobs



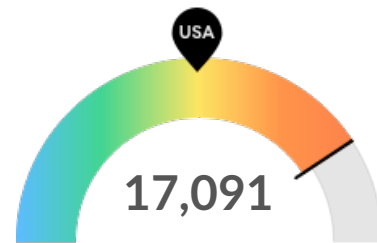
Jobs (2022)

Your area is a hotspot for this kind of job. The national average for an area this size is 129,541* employees, while there are 372,004 here.



Compensation

Earnings are high in your area. The national median salary for your occupations is \$111,494, compared to \$169,593 here.



Job Posting Demand

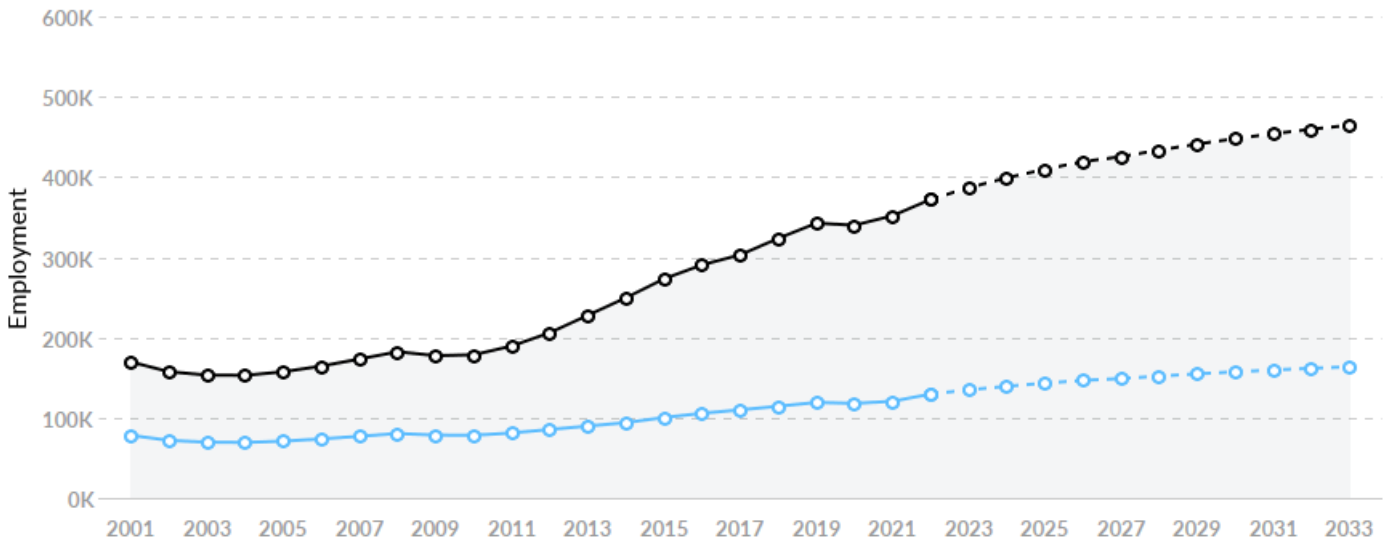
Job posting activity is high in your area. The national average for an area this size is 7,013* job postings/mo, while there are 17,091 here.

*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

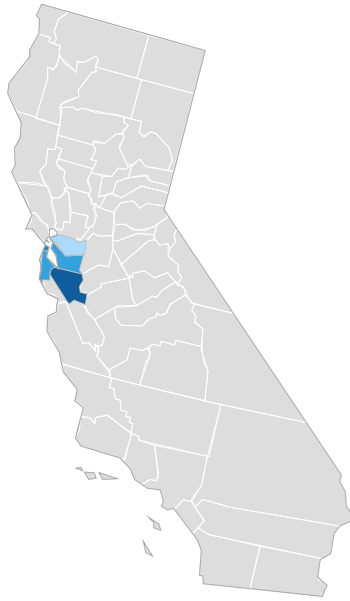
An average area of this size typically has 129,541* jobs, while there are 372,004 here. This higher than average supply of jobs may make it easier for workers in this field to find employment in your area.



Region	2022 Jobs	2029 Jobs	Change	% Change
● 5 California Counties	372,004	440,945	68,941	18.5%
● National Average	129,541	154,649	25,108	19.4%

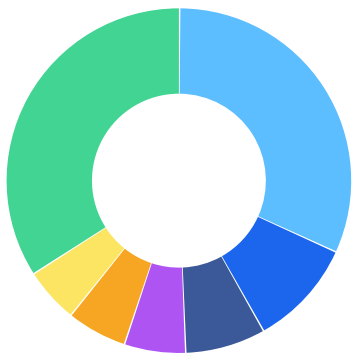
*National average values are derived by taking the national value for your occupations and scaling it down to account for the difference in overall workforce size between the nation and your area. In other words, the values represent the national average adjusted for region size.

Regional Breakdown



County	2022 Jobs
Santa Clara County, CA	173,803
San Francisco County, CA	93,273
Alameda County, CA	45,682
San Mateo County, CA	44,297
Contra Costa County, CA	14,949

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

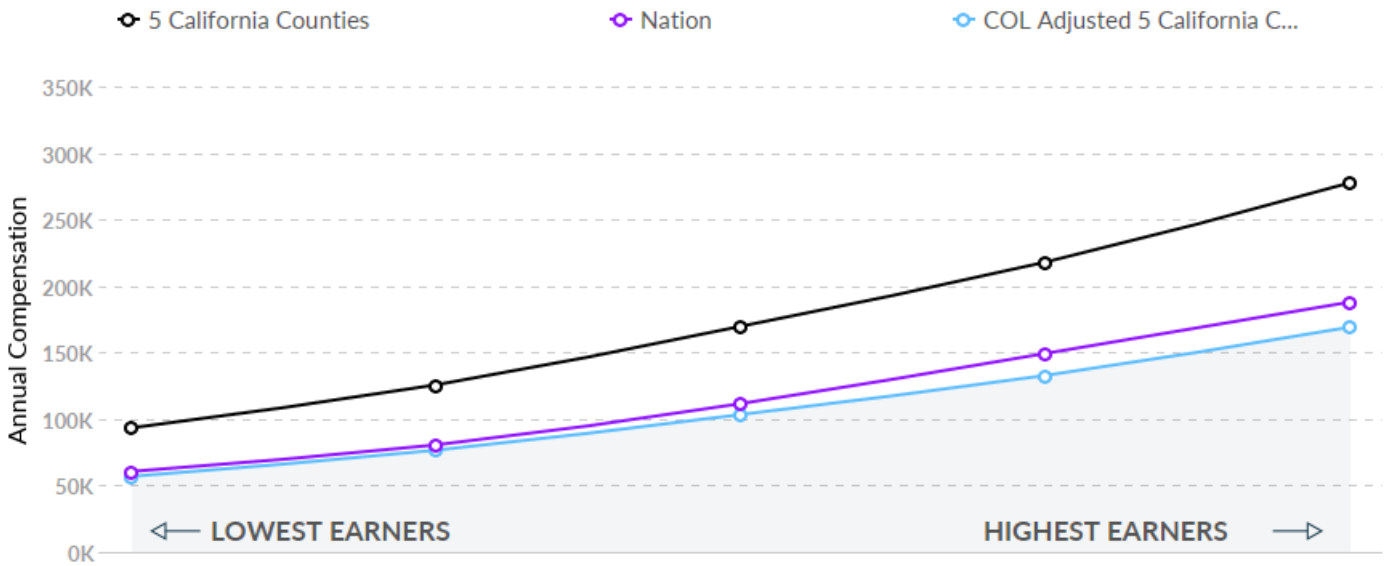


Industry	% of Occupation in Industry (2022)
Computer Systems Design and Related Services	31.7%
Software Publishers	10.0%
Web Search Portals, Libraries, Archives, and Other Information Services	7.5%
Data Processing, Hosting, and Related Services	5.7%
Scientific Research and Development Services	5.6%
Computer and Peripheral Equipment Manufacturing	5.2%
Other	34.1%

Compensation

Regional Compensation Is 52% Higher Than National Compensation

For your occupations, the 2022 median wage in your area is \$169,593, while the national median wage is \$111,494.



Job Posting Activity



324,738 Unique Job Postings

The number of unique postings for this job from Jan 2022 to Jul 2023.



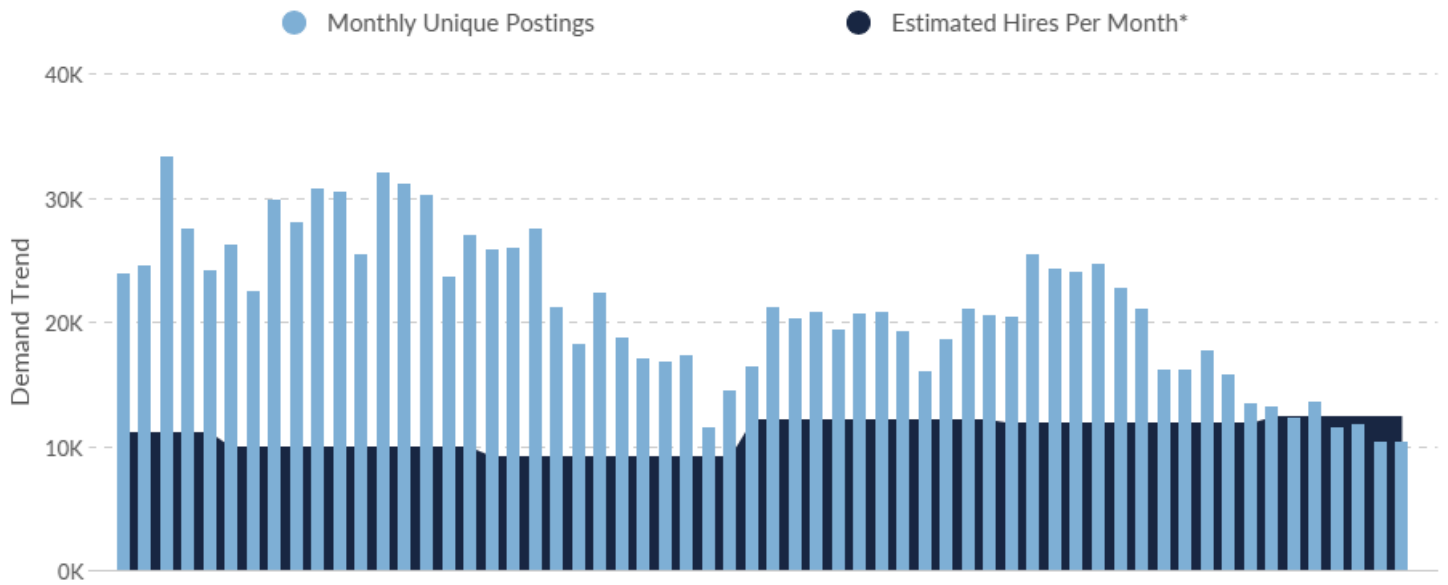
16,725 Employers Competing

All employers in the region who posted for this job from Jan 2022 to Jul 2023.



27 Day Median Duration

Posting duration is 3 days shorter than what's typical in the region.



Occupation	Avg Monthly Postings (Jan 2022 - Jul 2023)	Avg Monthly Hires (Jan 2022 - Jul 2023)
Software Developers	6,352	4,479
Computer Occupations, All Other	2,644	997
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)
Computer Systems Analysts	825	673
Software Quality Assurance Analysts and Testers	670	546
Database Administrators	556	82
Information Security Analysts	530	328
Network and Computer Systems Administrators	347	305
Database Architects	270	79
Computer Network Architects	315	224
Natural Sciences Managers	503	190
Computer Programmers	237	216
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
Mathematical Science Occupations, All Other	2	4

Top Companies	Unique Postings	Top Job Titles	Unique Postings
Amazon	4,923 	Software Engineers	13,002 
Stanford University	4,857 	Data Scientists	3,955 
Apple	4,455 	Data Engineers	3,542 
CyberCoders	3,902 	DevOps Engineers	3,457 
Randstad	3,870 	Business Analysts	3,217 
Google	3,741 	Back End Software Engineers	3,012 
Motion Recruitment	2,639 	Full Stack Software Engineers	2,982 
Capital One	2,516 	Data Analysts	2,812 
Meta	2,414 	Staff Software Engineers	2,746 
University of California	2,403 	Clinical Research Coordinators	2,634 

Top Distinguishing Skills by Demand

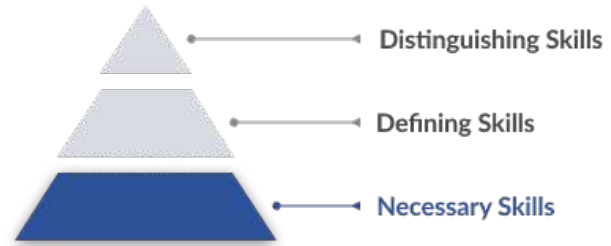
Not enough data to display Distinguishing Skills for this occupation.

Top Defining Skills by Demand

Not enough data to display Defining Skills for this occupation.

Top Necessary Skills by Demand

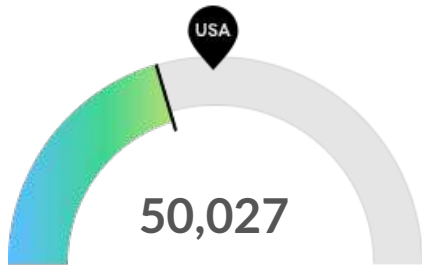
An occupation's Necessary Skills are the specialized skills required for that job and relevant across other similar jobs. An employee needs these skills as building blocks to perform the more complex Defining Skills.



Skill	Salary Boosting	Job Postings Requesting
Computer Science	✓	102,231
Python (Programming Language)	✓	86,010
Software Engineering	✓	71,079
Java (Programming Language)	✓	58,368
Software Development	✗	56,631
Agile Methodology	✓	56,520
SQL (Programming Language)	✗	55,795
Amazon Web Services	✓	50,542
Automation	✗	49,689
Scalability	✗	45,545

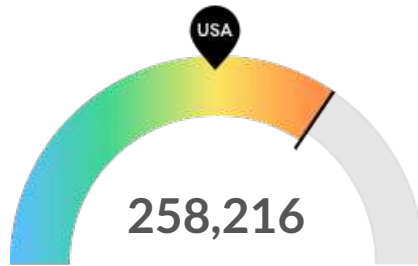
Demographics

Retirement Risk Is Low, While Overall Diversity Is High



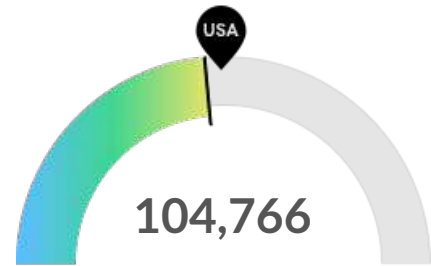
Retiring Soon

Retirement risk is low in your area. The national average for an area this size is 66,163* employees 55 or older, while there are 50,027 here.



Racial Diversity

Racial diversity is high in your area. The national average for an area this size is 152,824* racially diverse employees, while there are 258,216 here.

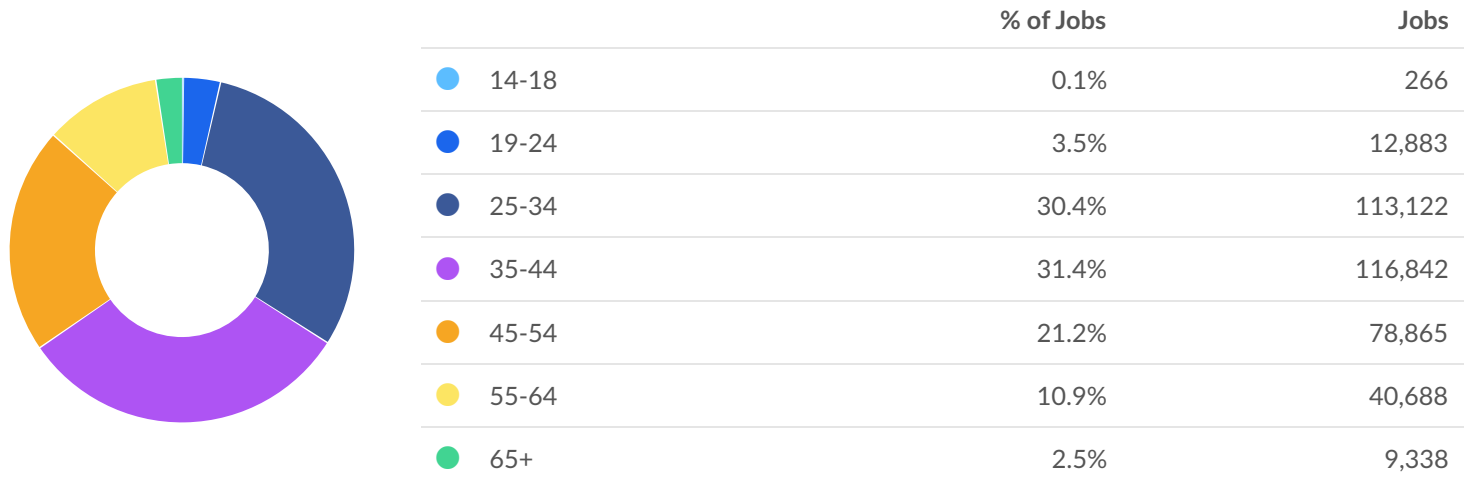


Gender Diversity

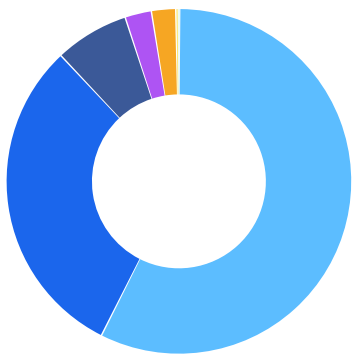
Gender diversity is about average in your area. The national average for an area this size is 113,980* female employees, while there are 104,766 here.

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Occupation Age Breakdown

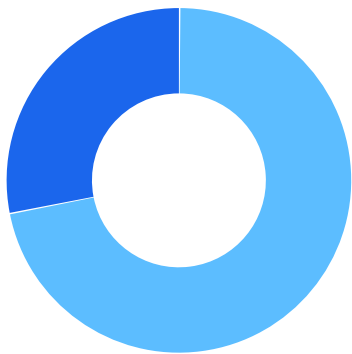


Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
Asian	57.3%	213,333
White	30.6%	113,788
Hispanic or Latino	7.0%	25,863
Black or African American	2.5%	9,240
Two or More Races	2.3%	8,428
Native Hawaiian or Other Pacific Islander	0.2%	908
American Indian or Alaska Native	0.1%	445

Occupation Gender Breakdown



	% of Jobs	Jobs
Males	71.8%	267,238
Females	28.2%	104,766

Occupational Programs



132 Programs

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



31,242 Completions (2021)











The completions from all regional institutions for all degree types.



52,292 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
43.0104	Criminal Justice/Safety Studies	712
14.0901	Computer Engineering, General	641
11.0199	Computer and Information Sciences, Other	614
14.0903	Computer Software Engineering	568

Top Schools	Completions (2021)	
University of California-Berkeley	5,580	
San Jose State University	4,448	
San Francisco State University	3,047	
California State University-East Bay	2,012	
Stanford University	1,452	
De Anza College	1,218	
University of San Francisco	1,137	
Diablo Valley College	1,108	
City College of San Francisco	1,095	
Santa Clara University	991	

Appendix A (Occupations)

Code	Description
13-1111	Management Analysts
15-2041	Statisticians
15-2051	Data Scientists
11-3021	Computer and Information Systems Managers
15-1255	Web and Digital Interface Designers
15-1211	Computer Systems Analysts
15-1221	Computer and Information Research Scientists
15-1241	Computer Network Architects
15-1242	Database Administrators
15-1243	Database Architects

Code	Description
15-1244	Network and Computer Systems Administrators
15-1253	Software Quality Assurance Analysts and Testers
15-1299	Computer Occupations, All Other
15-1212	Information Security Analysts
15-1231	Computer Network Support Specialists
15-1251	Computer Programmers
15-1252	Software Developers
15-1254	Web Developers
11-9121	Natural Sciences Managers
15-2099	Mathematical Science Occupations, All Other