



6 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

6 Occupations

49-1011 First-Line Supervisors of Mechanics,
Installers, and Repairers

47-1011 First-Line Supervisors of Construction
Trades and Extraction Workers

47-2111 Electricians

49-2098 Security and Fire Alarm Systems Installers

49-9097 Signal and Track Switch Repairers

49-9051 Electrical Power-Line Installers and
Repairers

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

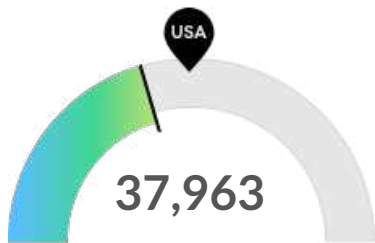
Class of Worker

QCEW Employees

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

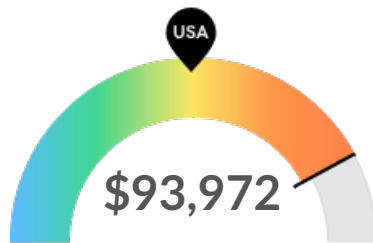
Executive Summary

Light Job Posting Demand Over a Thin Supply of Regional Jobs



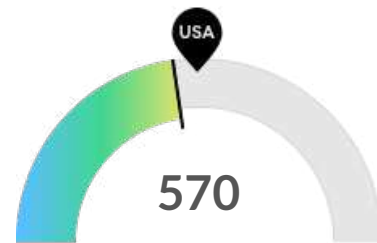
Jobs (2022)

Your area is not a hotspot for this kind of job. The national average for an area this size is 49,856* employees, while there are 37,963 here.



Compensation

Earnings are high in your area. The national median salary for your occupations is \$68,868, compared to \$93,972 here.



Job Posting Demand

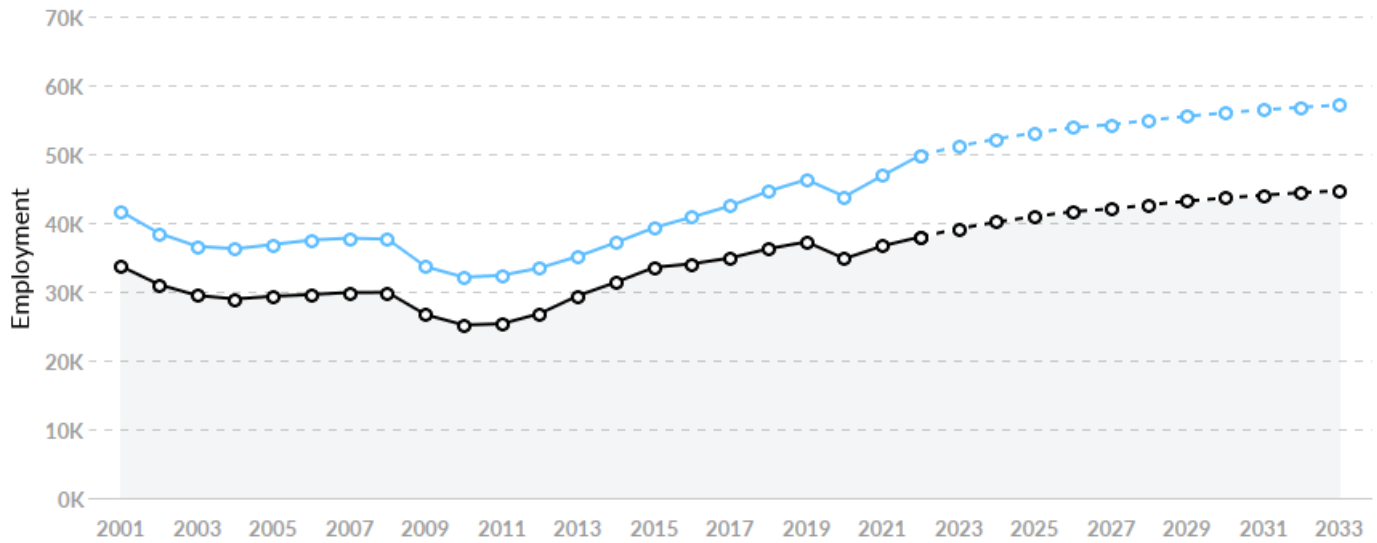
Job posting activity is low in your area. The national average for an area this size is 653* job postings/mo, while there are 570 here.

*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 Lower Than the National Average

An average area of this size typically has 49,856* jobs, while there are 37,963 here. This lower than average supply of jobs may make it more difficult for workers in this field to find employment in your area.



Region	2022 Jobs	2029 Jobs	Change	% Change
● 5 California Counties	37,963	43,151	5,187	13.7%
● National Average	49,856	55,489	5,632	11.3%

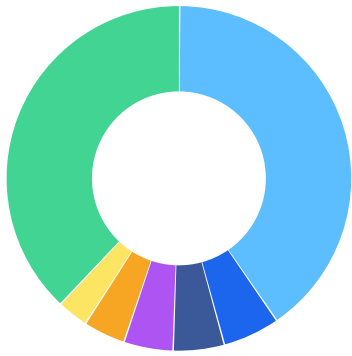
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Regional Breakdown



County	2022 Jobs
Santa Clara County, CA	11,622
Alameda County, CA	10,781
San Francisco County, CA	6,161
Contra Costa County, CA	5,514
San Mateo County, CA	3,886

Most Jobs are Found in the Building Equipment Contractors Industry Sector

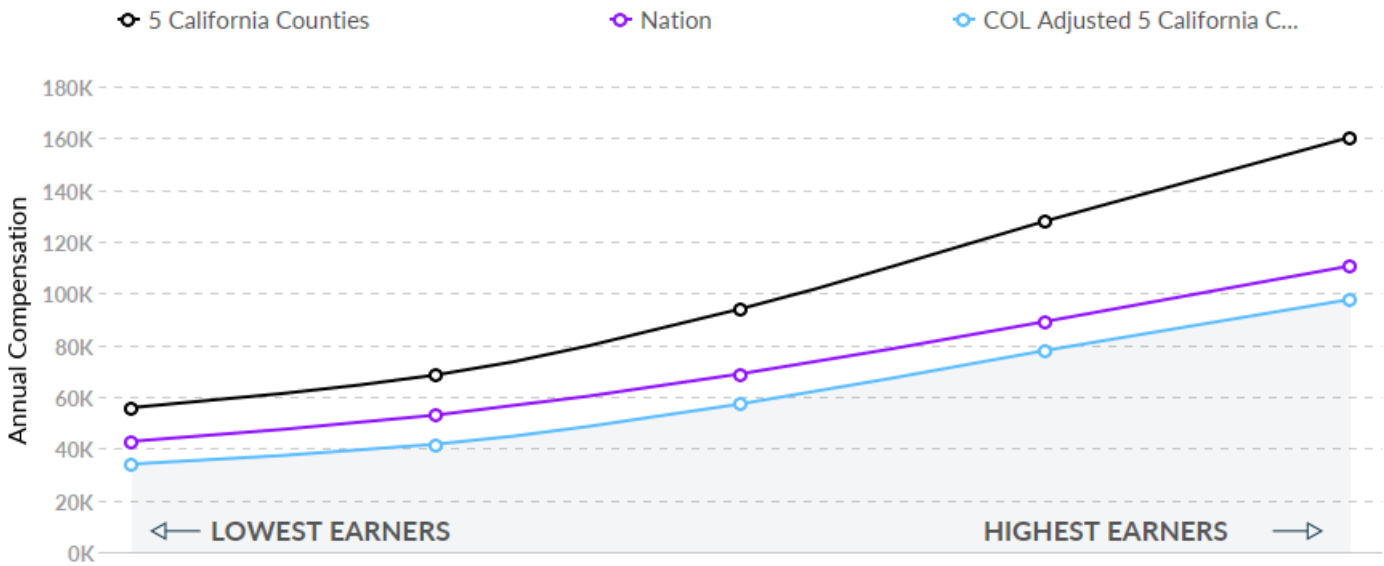


Industry	% of Occupation in Industry (2022)
● Building Equipment Contractors	40.3%
● Nonresidential Building Construction	5.3%
● Local Government, Excluding Education and Hospitals	4.8%
● Residential Building Construction	4.6%
● Investigation and Security Services	3.9%
● Foundation, Structure, and Building Exterior Contractors	2.9%
● Other	38.0%

Compensation

Regional Compensation Is 36% Higher Than National Compensation

For your occupations, the 2022 median wage in your area is \$93,972, while the national median wage is \$68,868.



Job Posting Activity



10,829 Unique Job Postings

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



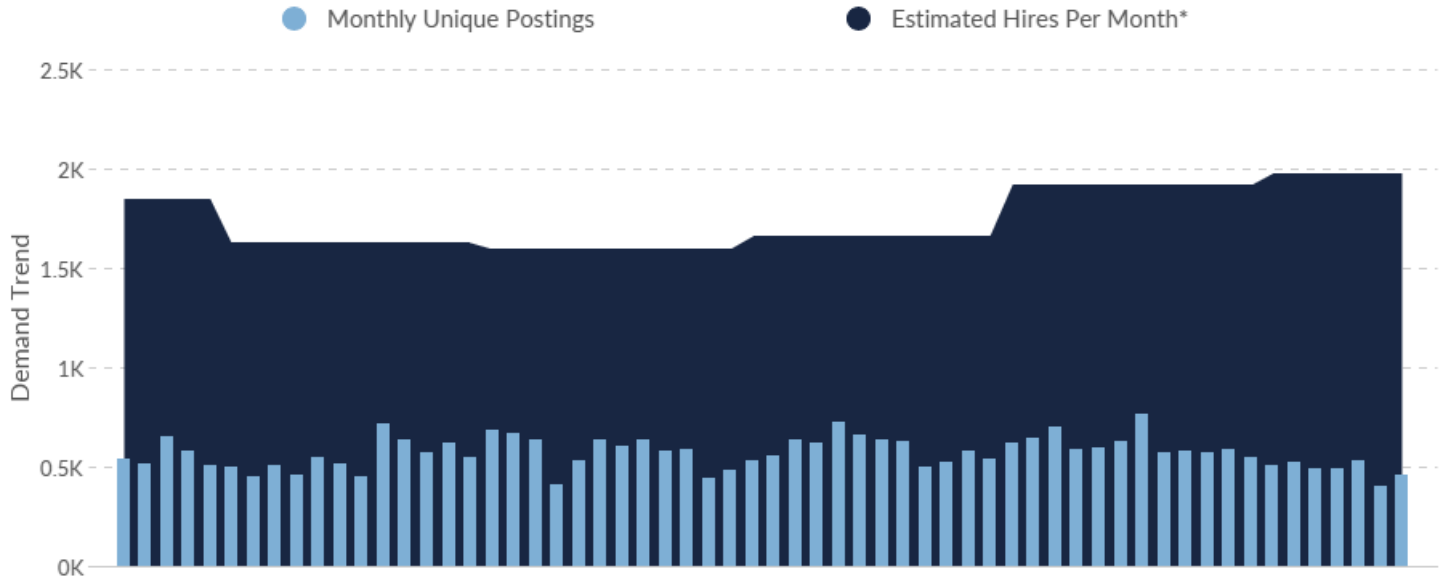
2,647 Employers Competing

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























30 Day Median Duration

Posting duration is the same as what's typical in the region.



Occupation	Avg Monthly Postings (Jan 2022 - Jul 2023)	Avg Monthly Hires (Jan 2022 - Jul 2023)
First-Line Supervisors of Mechanics, Installers, and Repairers	334	342
First-Line Supervisors of Construction Trades and Extraction Workers	86	640
Electricians	88	787
Security and Fire Alarm Systems Installers	42	135
Electrical Power-Line Installers and Repairers	18	32
Signal and Track Switch Repairers	1	3

*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.

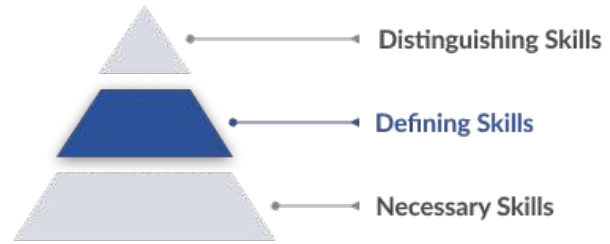
Top Companies		Unique Postings	Top Job Titles		Unique Postings
PG&E	247		Maintenance Supervisors	1,027	
Greystar	164		Maintenance Managers	501	
Tesla	134		Electricians	449	
Allied Universal	114		Service Managers	333	
University of California	99		Automotive Service Managers	187	
CBRE	97		Journeyman Electricians	186	
GPAC	68		Service Supervisors	182	
24 Hour Fitness	61		Maintenance Directors	171	
Kellogg's	61		Foremen	158	
Stanford University	61		Construction Superintendents	156	

Top Distinguishing Skills by Demand

Not enough data to display Distinguishing Skills for this occupation.

Top Defining Skills by Demand

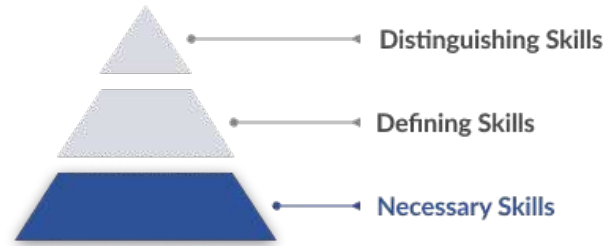
An occupation's Defining Skills represent the day-to-day tasks and responsibilities of the job. An employee needs these skills to qualify for and perform successfully in this occupation.



Skill	Salary Boosting	Job Postings Requesting
Valid Driver's License	✘	3,422
Construction	✔	1,910
Project Management	✘	1,295
Electrical Wiring	✘	975
Blueprinting	✘	793
Subcontracting	✘	785
Electrical Systems	✘	782
Hand Tools	✘	732
Construction Management	✔	679
Fire Alarm Systems	✘	645

Top Necessary Skills by Demand

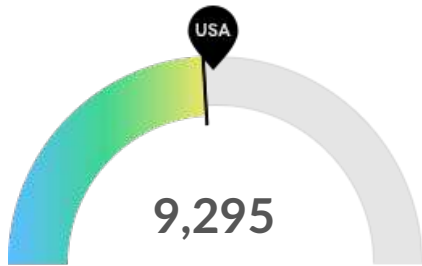
An occupation's Necessary Skills are the specialized skills required for that job and relevant across other similar jobs. An employee needs these skills as building blocks to perform the more complex Defining Skills.



Skill	Salary Boosting	Job Postings Requesting
Construction	✓	1,910
Plumbing	✗	1,357
HVAC	✗	1,320
Project Management	✗	1,295
Electrical Wiring	✗	975
Carpentry	✗	935
Preventive Maintenance	✗	894
Occupational Safety and Health Administration (OSHA)	✗	876
Auditing	✗	837
Blueprinting	✗	793

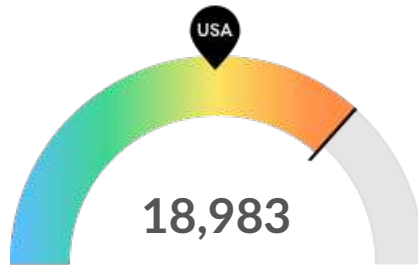
Demographics

Retirement Risk Is About Average, While Overall Diversity Is High



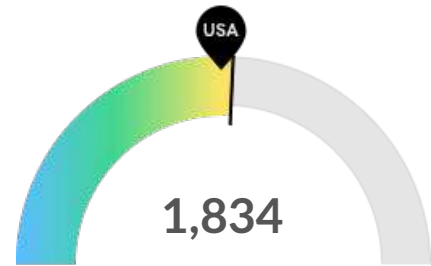
Retiring Soon

Retirement risk is about average in your area. The national average for an area this size is 9,817* employees 55 or older, while there are 9,295 here.



Racial Diversity

Racial diversity is high in your area. The national average for an area this size is 9,970* racially diverse employees, while there are 18,983 here.

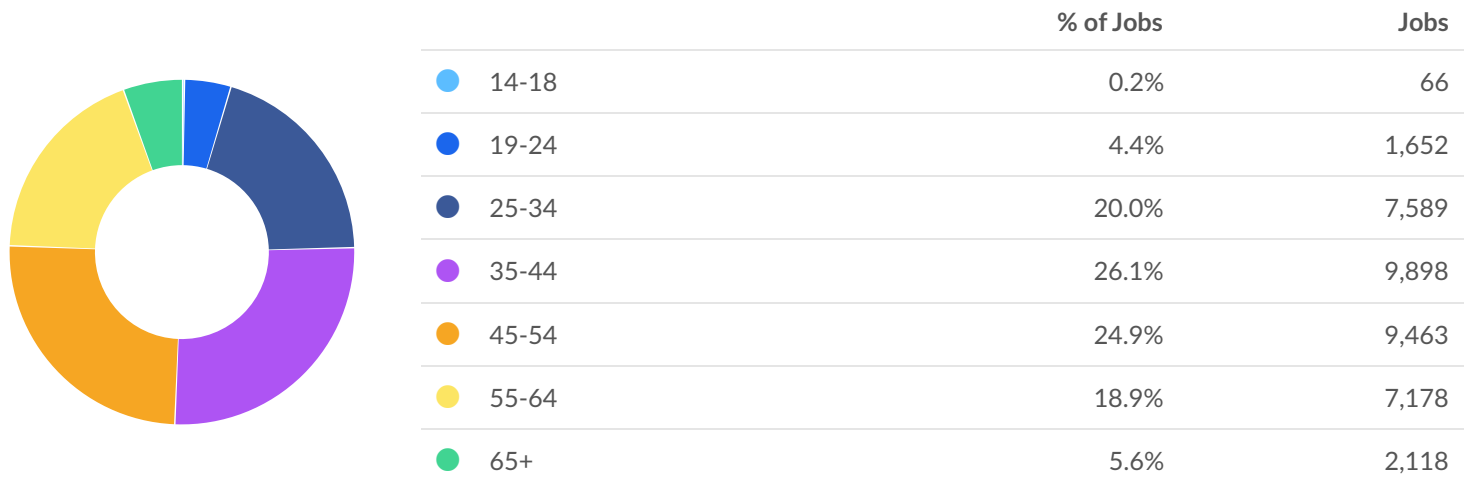


Gender Diversity

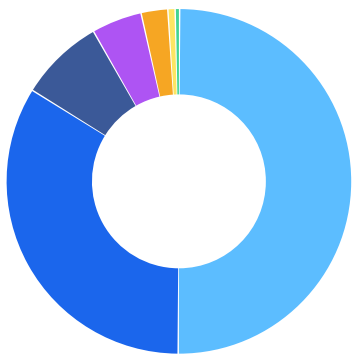
Gender diversity is about average in your area. The national average for an area this size is 1,753* female employees, while there are 1,834 here.

*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.

Occupation Age Breakdown

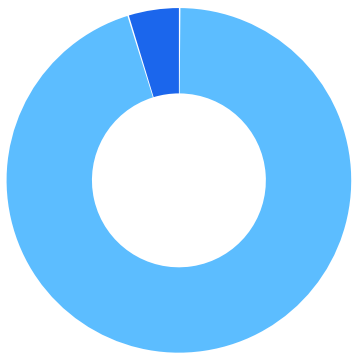


Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
White	50.0%	18,980
Hispanic or Latino	33.8%	12,825
Asian	7.9%	3,003
Black or African American	4.7%	1,790
Two or More Races	2.5%	949
Native Hawaiian or Other Pacific Islander	0.7%	258
American Indian or Alaska Native	0.4%	159

Occupation Gender Breakdown



	% of Jobs	Jobs
Males	95.2%	36,130
Females	4.8%	1,834

Occupational Programs



19 Programs

Of the programs that can train for this job, 19 have produced completions in the last 5 years.



1,336 Completions (2021)

The completions from all regional institutions for all degree types.



5,466 Openings (2021)

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

CIP Code	Top Programs	Completions (2021)
46.0302	Electrician	371
47.0604	Automobile/Automotive Mechanics Technology/Technician	280
04.0902	Architectural and Building Sciences/Technology	118
47.0201	Heating, Air Conditioning, Ventilation and Refrigeration Mai...	108
47.0101	Electrical/Electronics Equipment Installation and Repair Tec...	107
52.2001	Construction Management, General	80
04.0901	Architectural Technology/Technician	63
46.0415	Building Construction Technology/Technician	62
46.0503	Plumbing Technology/Plumber	43
46.0412	Building/Construction Site Management/Manager	33

Top Schools	Completions (2021)	
Institute for Business and Technology	339	
De Anza College	124	
Foothill College	116	
Chabot College	89	
California State University-East Bay	80	
Laney College	75	
University of California-Berkeley	70	
CET-San Jose	68	
Los Medanos College	65	
Diablo Valley College	52	

Appendix A - Data Sources and Calculations

Location Quotient

Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

Occupation Data

Emsi occupation employment data are based on final Emsi industry data and final Emsi staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates are also affected by county-level Emsi earnings by industry.

Staffing Patterns Data

The staffing pattern data in this report are compiled from several sources using a specialized process. For QCEW and Non-QCEW Employees classes of worker, sources include Occupational Employment Statistics, the National Industry-Occupation Employment Matrix, and the American Community Survey. For the Self-Employed and Extended Proprietors classes of worker, the primary source is the American Community Survey, with a small amount of information from Occupational Employment Statistics.

Cost of Living Data

Emsi's cost of living data is based on the Cost of Living Index published by the Council for Community and Economic Research (C2ER).

Lightcast Job Postings

Job postings are collected from various sources and processed/enriched to provide information such as standardized company name, occupation, skills, and geography.

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.