

# 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

11-9041 Architectural and Engineering Managers

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17-1011 Architects, Except Landscape and Naval

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17-1012 Landscape Architects

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17-3011 Architectural and Civil Drafters

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17-3022 Civil Engineering Technologists and Technicians

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17-3029 Engineering Technologists and Technicians, Except Drafters, All Other

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### 5 Counties

6001 Alameda County, CA

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6013 Contra Costa County, CA

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6075 San Francisco County, CA

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6081 San Mateo County, CA

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6085 Santa Clara County, CA

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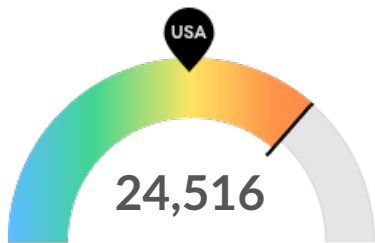
### Class of Worker

QCEW Employees

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

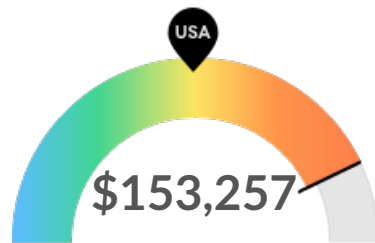
## Executive Summary

### Aggressive Job Posting Demand Over a Deep Supply of Regional Jobs



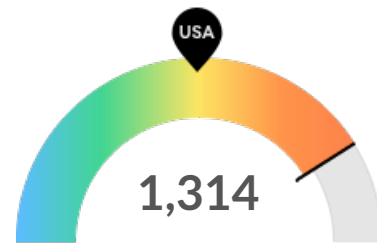
**Jobs (2022)**

Your area is a hotspot for this kind of job. The national average for an area this size is 12,989\* employees, while there are 24,516 here.



**Compensation**

Earnings are high in your area. The national median salary for your occupations is \$87,138, compared to \$153,257 here.



**Job Posting Demand**

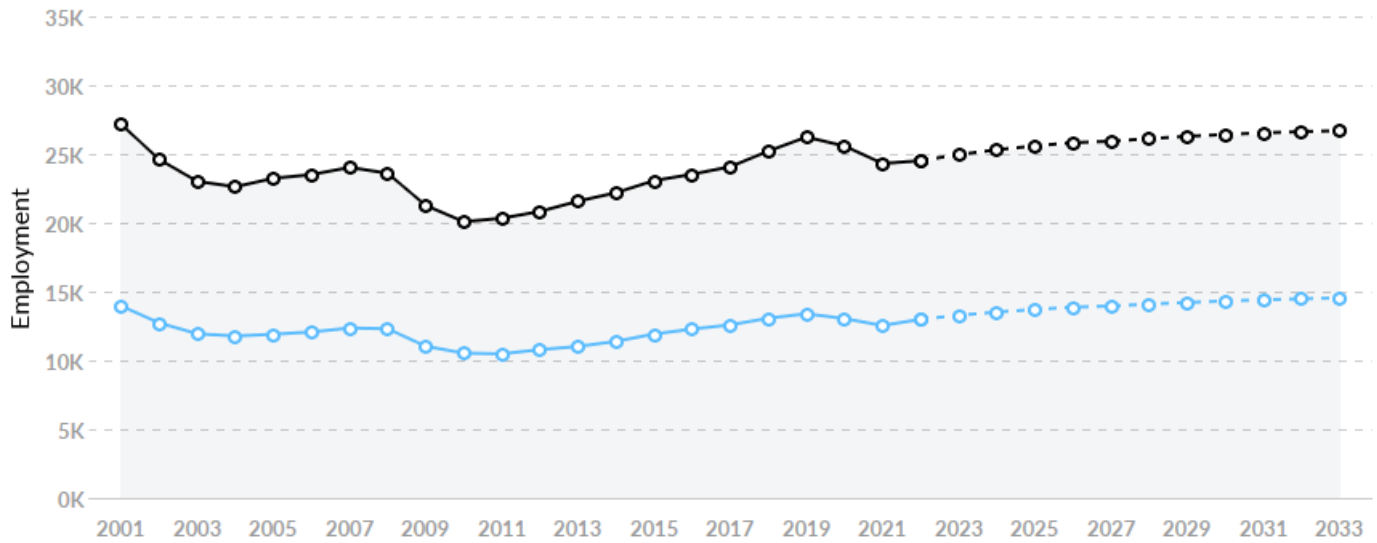
Job posting activity is high in your area. The national average for an area this size is 528\* job postings/mo, while there is 1,314 here.

\*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

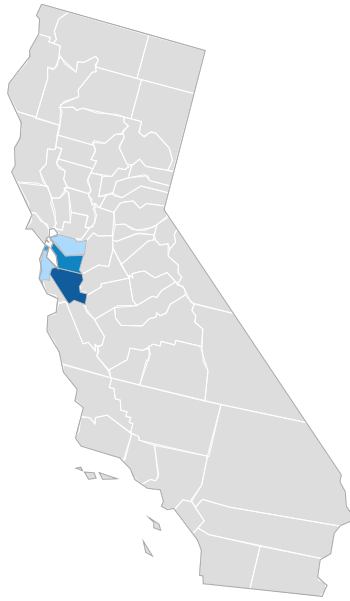
An average area of this size typically has 12,989\* jobs, while there are 24,516 here. This higher than average supply of jobs may make it easier for workers in this field to find employment in your area.



Region	2022 Jobs	2029 Jobs	Change	% Change
● 5 California Counties	24,516	26,283	1,767	7.2%
● National Average	12,989	14,211	1,221	9.4%

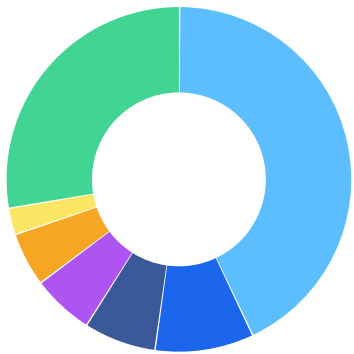
\*National average values are derived by taking the national value for your occupations and scaling it down to account for the difference in overall workforce size between the nation and your area. In other words, the values represent the national average adjusted for region size.







## Regional Breakdown



County	2022 Jobs
Santa Clara County, CA	9,153
Alameda County, CA	5,864
San Francisco County, CA	5,486
San Mateo County, CA	2,177
Contra Costa County, CA	1,836

## Most Jobs are Found in the Architectural, Engineering, and Related Services Industry Sector



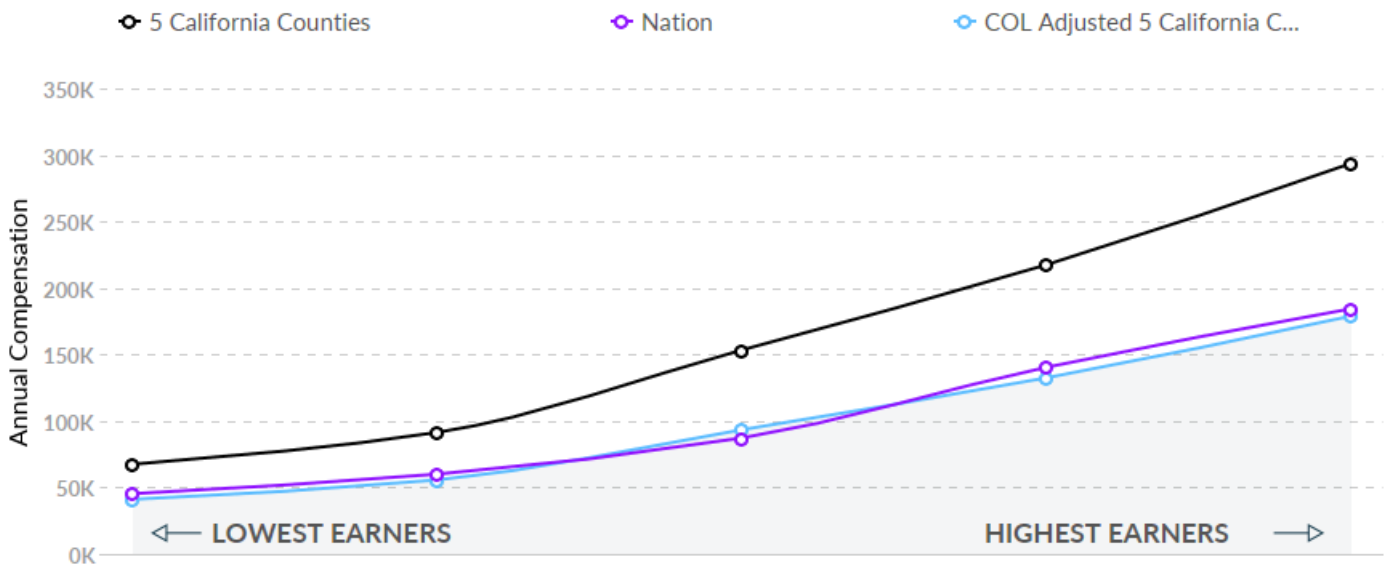
Industry	% of Occupation in Industry (2022)
 Architectural, Engineering, and Related Services	42.9%
 Scientific Research and Development Services	9.3%
 Semiconductor and Other Electronic Component Manufacturing	6.8%
 Computer and Peripheral Equipment Manufacturing	5.8%
 Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	5.1%
 Computer Systems Design and Related Services	2.5%
 Other	27.8%



# Compensation

## Regional Compensation Is 76% Higher Than National Compensation

For your occupations, the 2022 median wage in your area is \$153,257, while the national median wage is \$87,138.



## Job Posting Activity



### 24,962 Unique Job Postings

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



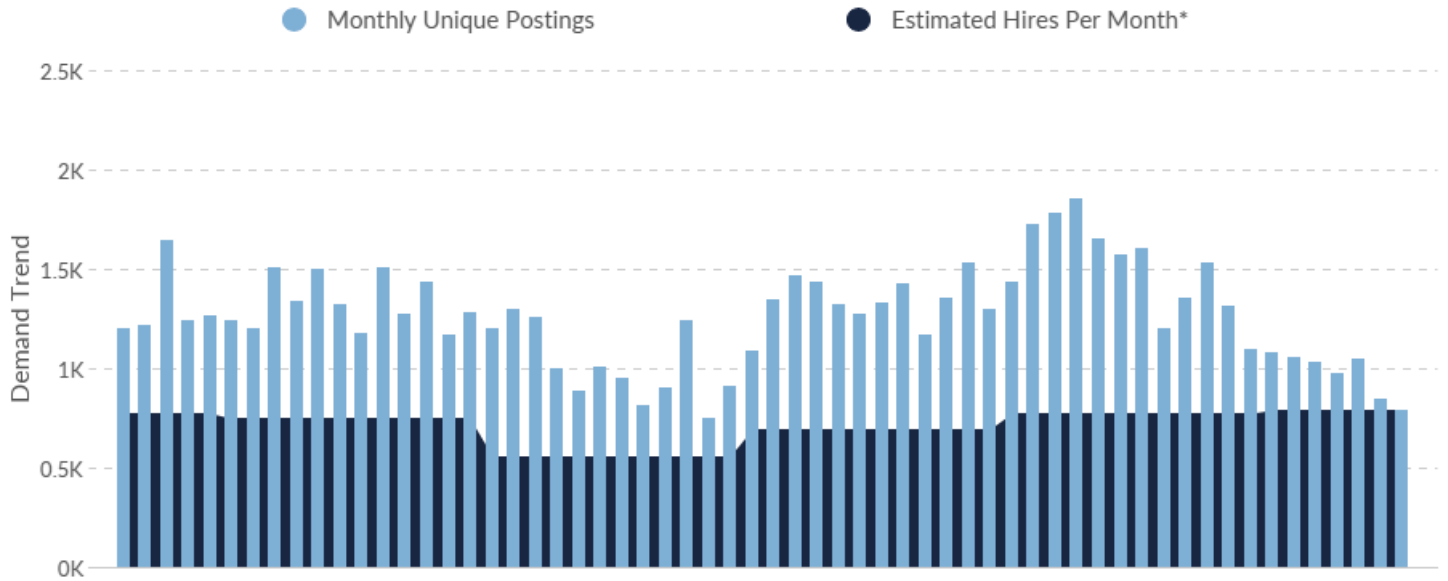
### 4,561 Employers Competing

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























### 29 Day Median Duration

Posting duration is 1 day shorter than what's typical in the region.



Occupation	Avg Monthly Postings (Jan 2022 - Jul 2023)	Avg Monthly Hires (Jan 2022 - Jul 2023)
Architectural and Engineering Managers	871	302
Engineering Technologists and Technicians, Except Drafters, All Other	237	101
Architects, Except Landscape and Naval	150	161
Civil Engineering Technologists and Technicians	27	54
Architectural and Civil Drafters	15	136
Landscape Architects	12	23

\*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.

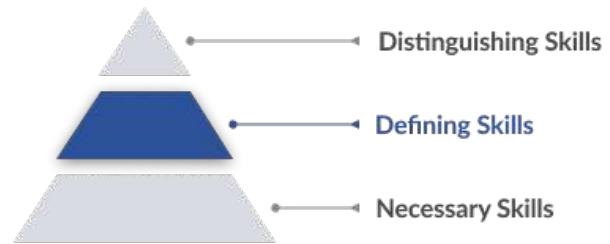
Top Companies	Unique Postings	Top Job Titles	Unique Postings
Apple	1,062 	Engineering Managers	1,726 
Google	614 	Engineering Technicians	1,167 
Tesla	409 	Engineering Program Managers	660 
Meta	303 	Directors of Engineering	585 
CyberCoders	251 	Project Architects	450 
Cisco	236 	Project Engineers	419 
Actalent	211 	Chief Engineers	410 
GPAC	194 	Platform Engineering Managers	346 
Randstad	183 	Vice Presidents of Engineering	303 
Capital One	169 	Architectural Designers	287 

## Top Distinguishing Skills by Demand

Not enough data to display Distinguishing Skills for this occupation.

## Top Defining Skills by Demand

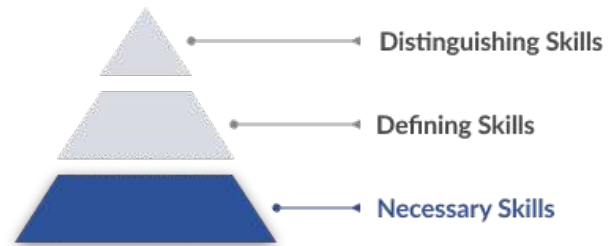
An occupation's Defining Skills represent the day-to-day tasks and responsibilities of the job. An employee needs these skills to qualify for and perform successfully in this occupation.



Skill	Salary Boosting	Job Postings Requesting
Project Management	✗	5,882
Engineering Management	✗	5,698
AutoCAD	✓	1,673
Construction	✗	1,624
Autodesk Revit	✓	1,464
Construction Management	✗	1,067
Project Engineering	✗	976
Valid Driver's License	✗	833
Computer-Aided Design	✓	817
SketchUp (3D Modeling Software)	✗	687

## Top Necessary Skills by Demand

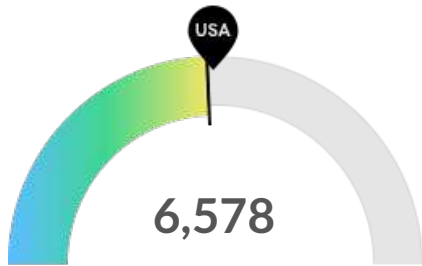
An occupation's Necessary Skills are the specialized skills required for that job and relevant across other similar jobs. An employee needs these skills as building blocks to perform the more complex Defining Skills.



Skill	Salary Boosting	Job Postings Requesting
Project Management	✘	5,882
Computer Science	✘	4,420
Software Engineering	✘	3,509
New Product Development	✘	2,830
Agile Methodology	✘	2,663
Automation	✘	2,279
Amazon Web Services	✘	2,254
Electrical Engineering	✘	1,951
Marketing	✘	1,625
Construction	✘	1,624

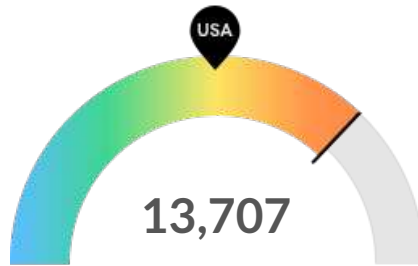
# Demographics

## Retirement Risk Is About Average, While Overall Diversity Is High



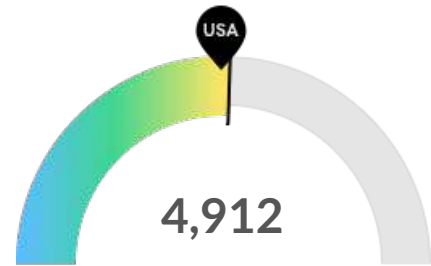
**Retiring Soon**

Retirement risk is about average in your area. The national average for an area this size is 6,828\* employees 55 or older, while there are 6,578 here.



**Racial Diversity**

Racial diversity is high in your area. The national average for an area this size is 7,017\* racially diverse employees, while there are 13,707 here.

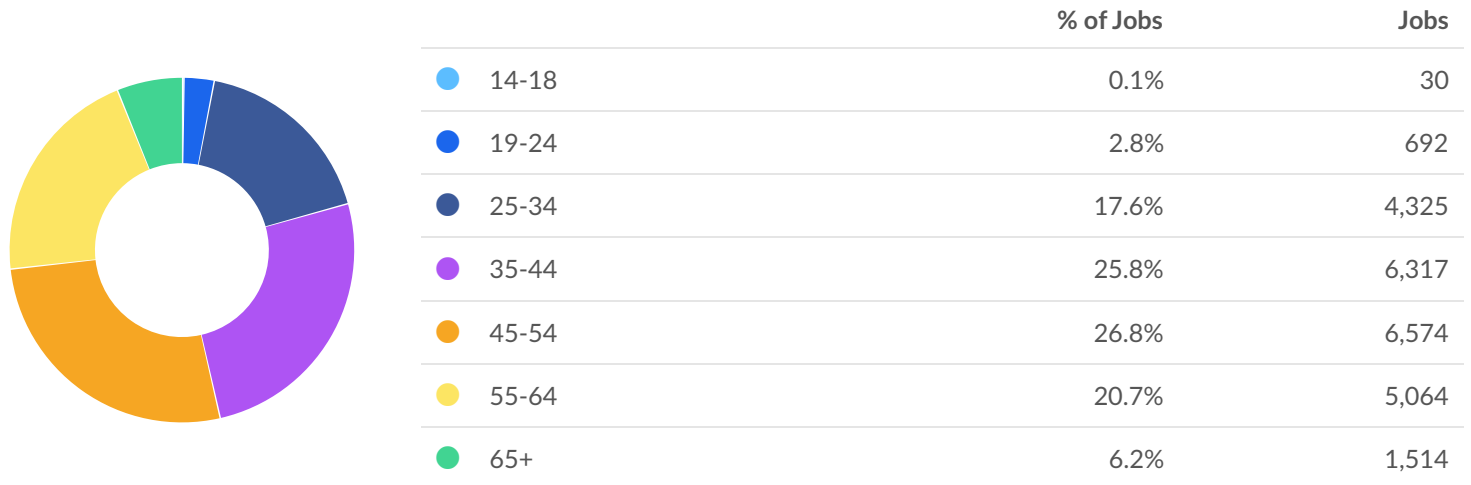


**Gender Diversity**

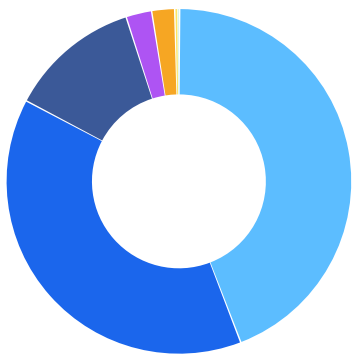
Gender diversity is about average in your area. The national average for an area this size is 4,761\* female employees, while there are 4,912 here.

\*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

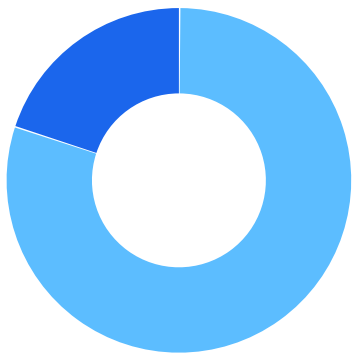


## Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
White	44.1%	10,809
Asian	38.6%	9,455
Hispanic or Latino	12.3%	3,023
Two or More Races	2.4%	592
Black or African American	2.1%	525
Native Hawaiian or Other Pacific Islander	0.3%	74
American Indian or Alaska Native	0.2%	39

## Occupation Gender Breakdown



	% of Jobs	Jobs
Males	80.0%	19,604
Females	20.0%	4,912



# Occupational Programs



**56 Programs**

Of the programs that can train for this job, 56 have produced completions in the last 5 years.



**7,697 Completions (2021)**











The completions from all regional institutions for all degree types.



**2,718 Openings (2021)**

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

CIP Code	Top Programs	Completions (2021)
14.1001	Electrical and Electronics Engineering	1,341
14.1901	Mechanical Engineering	955
14.0801	Civil Engineering, General	733
14.0901	Computer Engineering, General	641
14.0903	Computer Software Engineering	568
14.0501	Bioengineering and Biomedical Engineering	408
15.1501	Engineering/Industrial Management	341
14.0701	Chemical Engineering	289
15.1301	Drafting and Design Technology/Technician, General	187
14.0201	Aerospace, Aeronautical, and Astronautical/Space Engineer...	165

Top Schools	Completions (2021)	
San Jose State University	2,164	
University of California-Berkeley	2,122	
Stanford University	1,321	
Santa Clara University	468	
San Francisco State University	437	
Academy of Art University	256	
San Jose City College	143	
California College of the Arts	85	
University of San Francisco	84	
City College of San Francisco	78	

## 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.