3 Life, Physical, and Social Science Occupations
in San Diego-Chula Vista-Carlsbad, CA

Contents

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*.

Report Parameters

3 Occupations

19-2031 Chemists	19-1021 Biochemists and Biophysicists
19-4031 Chemical Technicians	

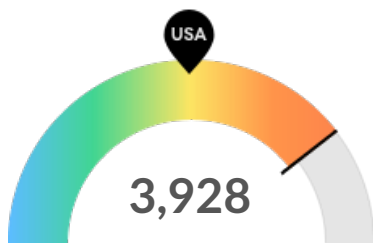## 1 MSA

41740   San Diego-Chula Vista-Carlsbad, CA

Class of Worker

QCEW Employees

The information in this report pertains to the chosen occupations and geographical area.
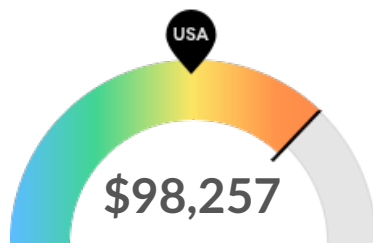
Executive Summary

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

3,928

Jobs (2023)

San Diego-Chula Vista-Carlsbad, CA is a hotspot for this kind of job. The national average for an area this size is 1,741* employees, while there are 3,928 here.

$98,257

Compensation

Earnings are high in San Diego-Chula Vista-Carlsbad, CA. The national median salary for your occupations is $77,850, compared to $98,257 here.

83
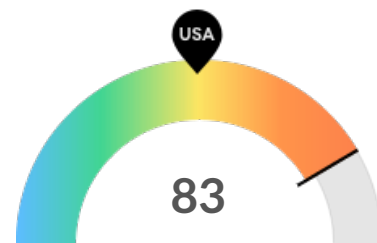
Job Posting Demand

Job posting activity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 32* job postings/mo, while there are 83 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 San Diego-Chula Vista-Carlsbad, CA. 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 1,741* jobs, while there are 3,928 here. This higher than average supply of jobs may make it easier for workers in this field to find employment in your area.
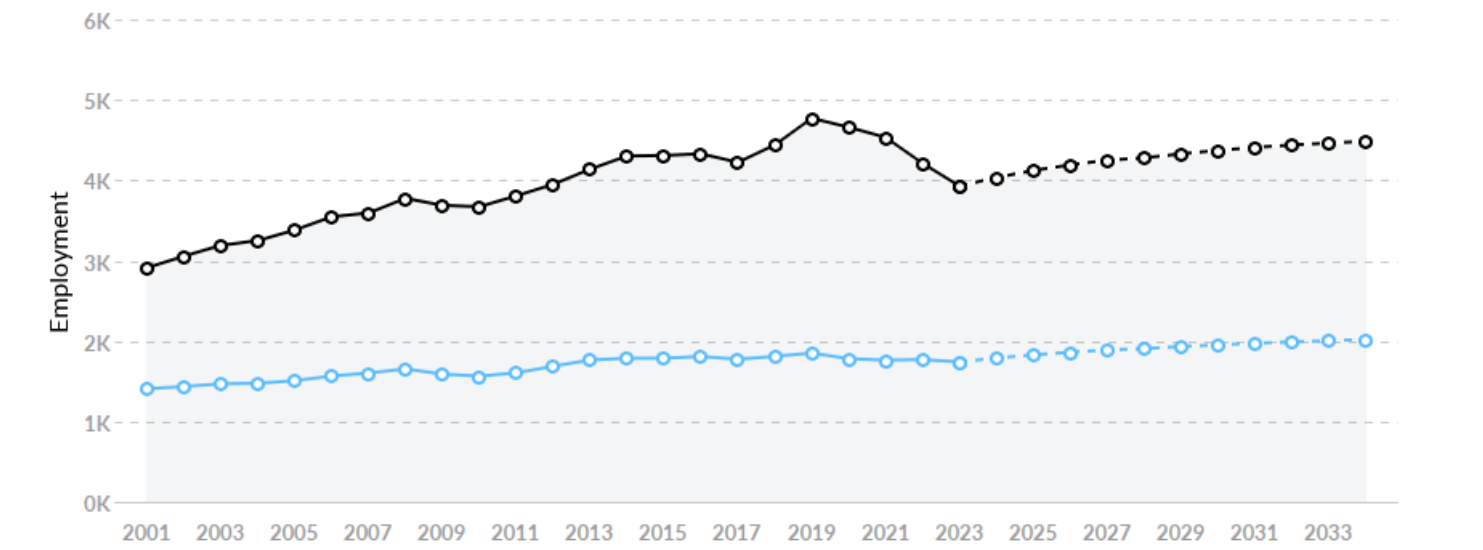
	Region	2023 Jobs	2024 Jobs	Change	% Change
●	San Diego-Chula Vista-Carlsbad, CA	3,928	4,034	106	2.7%
●	National Average	1,741	1,789	47	2.7%

*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 San Diego-Chula Vista-Carlsbad, CA. In other words, the values represent the national average adjusted for region size.

Regional Breakdown

County	2023 Jobs
San Diego County, CA	3,928

Most Jobs are Found in the Scientific Research and Development Services Industry Sector

Industry	% of Occupation in Industry (2023)
● Scientific Research and Development Services	51.9%
● Pharmaceutical and Medicine Manufacturing	16.9%
● Architectural, Engineering, and Related Services	8.3%
● Federal Government, Civilian	2.6%
● Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	2.4%
● Education and Hospitals (State Government)	2.2%
● Other	15.8%

Compensation

Regional Compensation Is 26% Higher Than National Compensation

For your occupations, the 2023 median wage in San Diego-Chula Vista-Carlsbad, CA is $98,257, while the national median wage is $77,850.
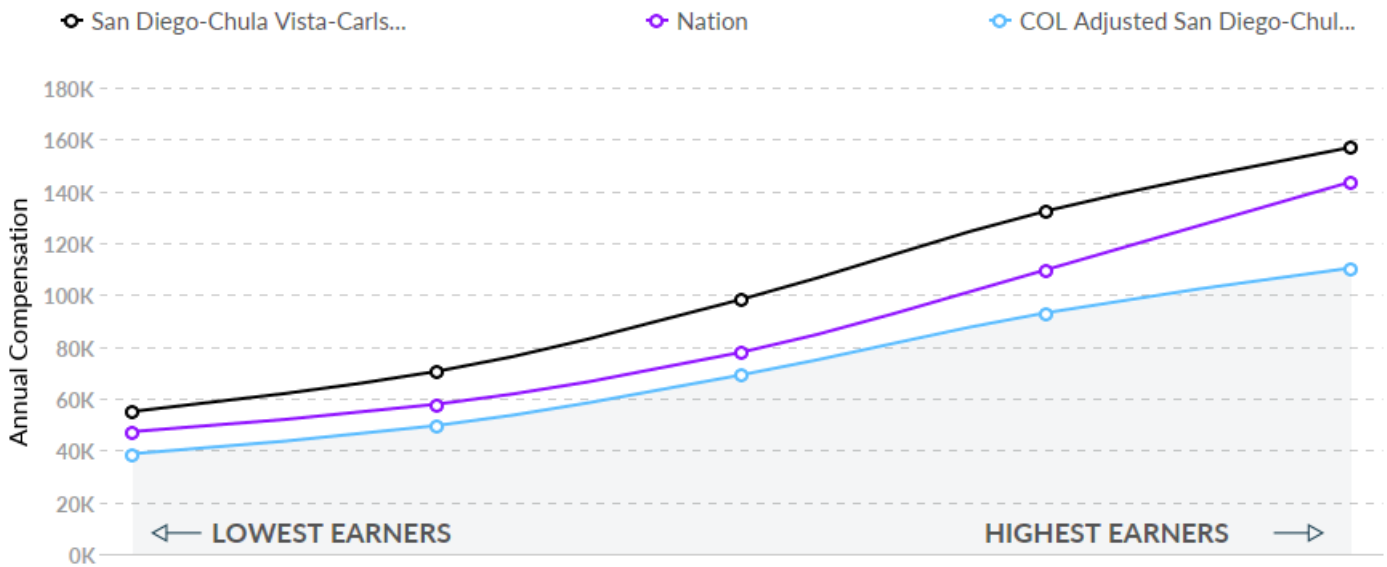
Job Posting Activity

1,403 Unique Job Postings

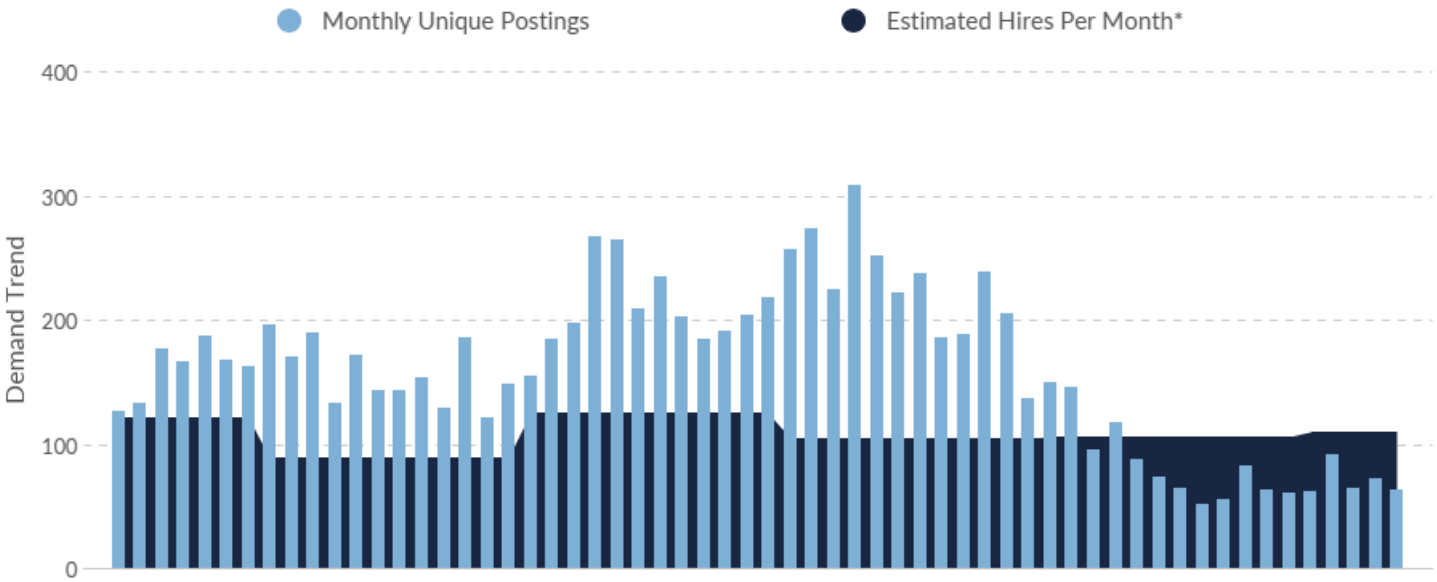The number of unique postings for this job from Jan 2023 to May 2024.

380 Employers Competing

All employers in the region who posted for this job from Jan 2023 to May 2024.

28 Day Median Duration

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

Occupation	Avg Monthly Postings (Jan 2023 - May 2024)	Avg Monthly Hires (Jan 2023 - May 2024)
Chemists	61	38
Biochemists and Biophysicists	9	33
Chemical Technicians	13	36

*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	
Actalent	97		Biochemists	81	
Neurocrine Biosciences	49		Chemists	79	
Eurofins	36		Chemistry Scientists	73	
Catalent	27		Analytical Chemists	72	
Biolegend	23		Scientists	72	
Elite Protek	23		Assay Development Scientists	69	
Johnson & Johnson	21		Quality Control Chemists	66	
Randstad	21		Production Chemists	56	
Avidity Biosciences	18		Principal Scientists	46	
Kelly Services	18		Analytical Development Scientis...	44	

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.
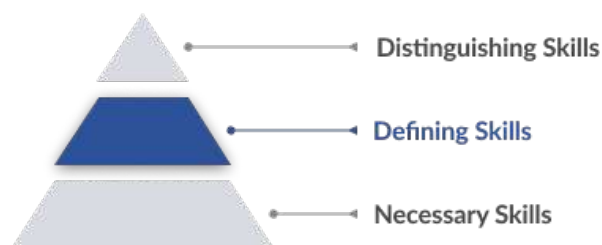
Distinguishing Skills

Defining Skills

Necessary Skills

Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
Chemistry	❌	835	+18.2%	Growing
Biochemistry	✅	503	+12.3%	Growing
Biology	❌	437	+25.7%	Rapidly Growing
Good Manufacturing Practices	❌	426	+13.1%	Growing
High-Performance Liquid Chromatography	❌	370	+12.6%	Growing
Analytical Techniques	✅	313	+12.4%	Growing
Analytical Chemistry	❌	242	+13.2%	Growing
Molecular Biology	❌	193	+16.0%	Growing
Organic Chemistry	✅	165	+5.6%	Stable
Liquid Chromatography Mass Spectrometry	❌	141	+11.8%	Growing

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.
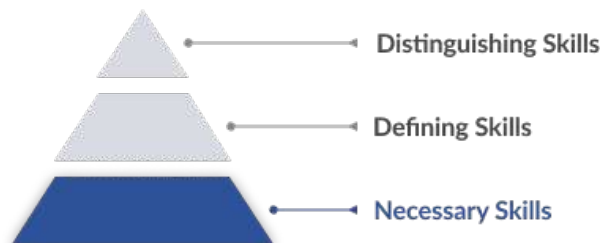
Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
Biochemistry	✅	503	+12.3%	Growing
Biology	❌	437	+25.7%	Rapidly Growing
Good Manufacturing Practices	❌	426	+13.1%	Growing
High-Performance Liquid Chromatography	❌	370	+12.6%	Growing
Biochemical Assays	❌	326	+13.2%	Growing
Analytical Techniques	✅	313	+12.4%	Growing
Laboratory Equipment	❌	285	+9.2%	Growing
Pharmaceuticals	❌	264	+19.6%	Rapidly Growing
Analytical Chemistry	❌	242	+13.2%	Growing
Data Analysis	❌	228	+25.8%	Rapidly Growing

Demographics

Retirement Risk Is Low, While Overall Diversity Is High
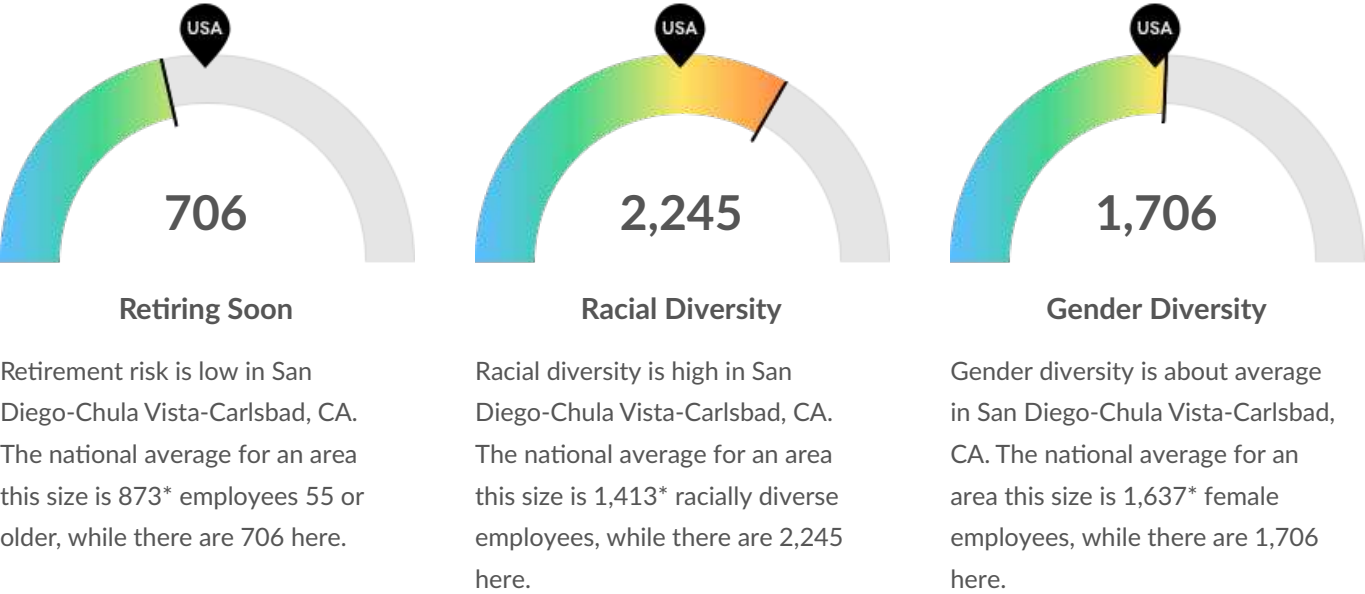
706

Retiring Soon

Retirement risk is low in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 873* employees 55 or older, while there are 706 here.

2,245

Racial Diversity

Racial diversity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 1,413* racially diverse employees, while there are 2,245 here.

1,706

Gender Diversity

Gender diversity is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 1,637* female employees, while there are 1,706 here.

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Occupation Age Breakdown

	% of Jobs	Jobs
14-18	0.1%	2
19-24	6.0%	237
25-34	32.0%	1,257
35-44	24.5%	961
45-54	19.5%	765
55-64	13.6%	533
65+	4.4%	173
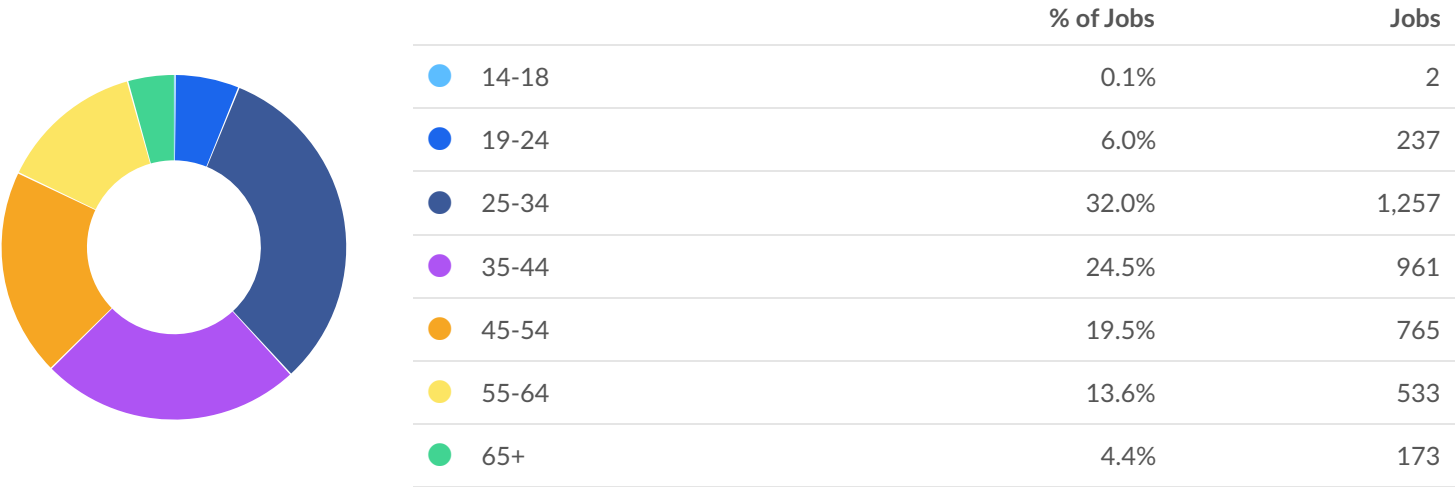
Occupation Race/Ethnicity Breakdown
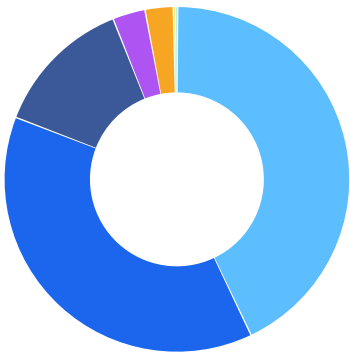
	% of Jobs	Jobs
White	42.9%	1,683
Asian	37.9%	1,490
Hispanic or Latino	13.1%	516
Black or African American	3.1%	120
Two or More Races	2.6%	104
Native Hawaiian or Other Pacific Islander	0.2%	9
American Indian or Alaska Native	0.2%	7

Occupation Gender Breakdown
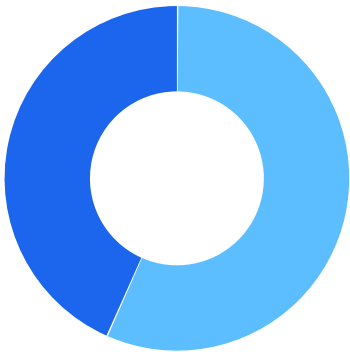
	% of Jobs	Jobs
Males	56.6%	2,222
Females	43.4%	1,706

Occupational Programs

15 Programs

Of the programs that can train for this job, 15 have produced completions in the last 5 years.

2,990 Completions (2023)

The completions from all regional institutions for all degree types.

421 Openings (2023)

The average number of openings for an occupation in the region is 256.

CIP Code	Top Programs	Completions (2023)	
26.0101	Biology/Biological Sciences, General	1,509	
40.0501	Chemistry, General	343	
26.0202	Biochemistry	198	
31.0505	Exercise Science and Kinesiology	187	
40.0801	Physics, General	164	
40.0599	Chemistry, Other	148	
26.1302	Marine Biology and Biological Oceanography	143	
14.0701	Chemical Engineering	128	
26.1501	Neuroscience	86	
26.0102	Biomedical Sciences, General	38	

Top Schools	Completions (2023)	
University of California-San Diego	1,288	
San Diego State University	432	
California State University-San Marcos	280	
University of San Diego	195	
Point Loma Nazarene University	150	
San Diego Mesa College	150	
San Diego Miramar College	99	
San Diego City College	88	
Grossmont College	81	
Palomar College	69	

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

Lightcast'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.