



4 Occupations in San Diego-Chula Vista-Carlsbad, CA

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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*.



Report Parameters

4 Occupations

19-2012	Physicists	17-2161	Nuclear Engineers
19-4051	Nuclear Technicians	19-2011	Astronomers

1 MSA

41740	San Diego-Chula Vista-Carlsbad, CA
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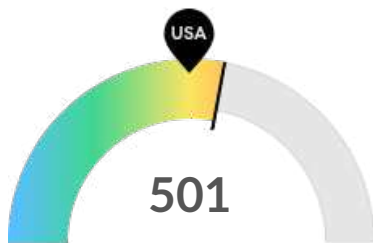
Class of Worker

QCEW Employees

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

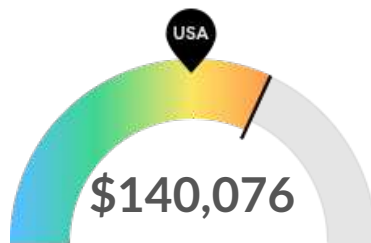
Executive Summary

Average Job Posting Demand Over a Deep Supply of Regional Jobs



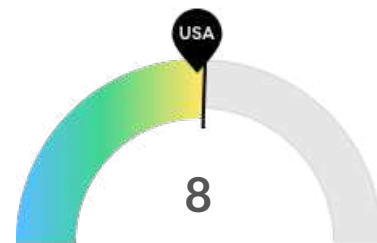
Jobs (2023)

San Diego-Chula Vista-Carlsbad, CA is a hotspot for this kind of job. The national average for an area this size is 424* employees, while there are 501 here.



Compensation

Earnings are high in San Diego-Chula Vista-Carlsbad, CA. The national median salary for your occupations is \$129,804, compared to \$140,076 here.



Job Posting Demand

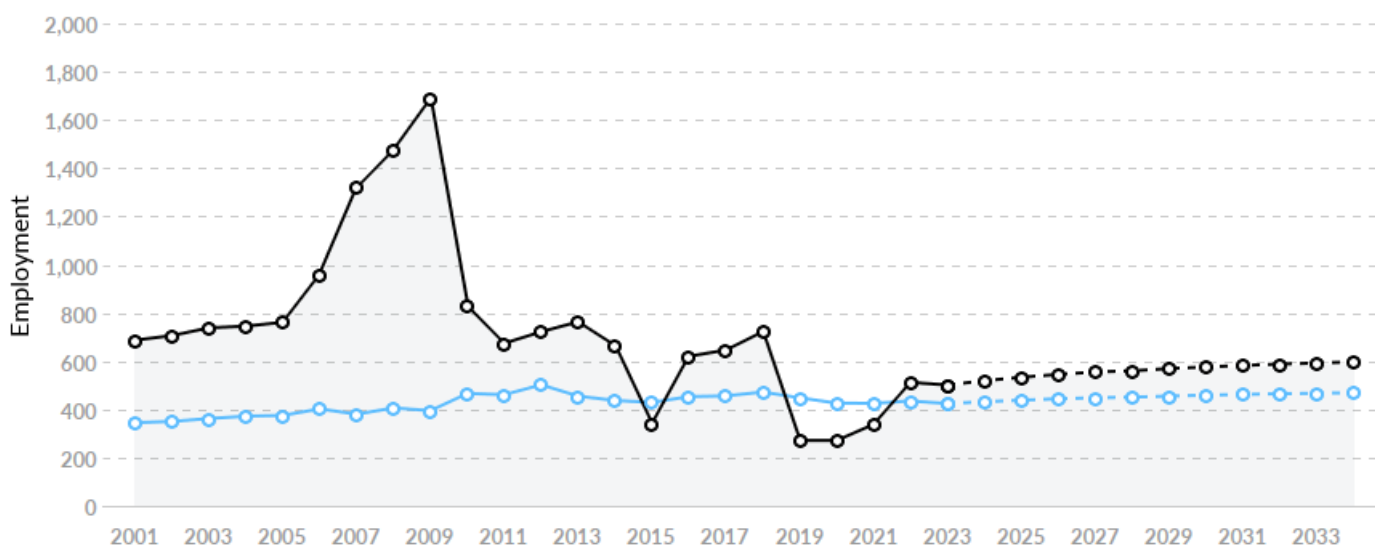
Job posting activity is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 7* job postings/mo, while there are 8 here.

*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

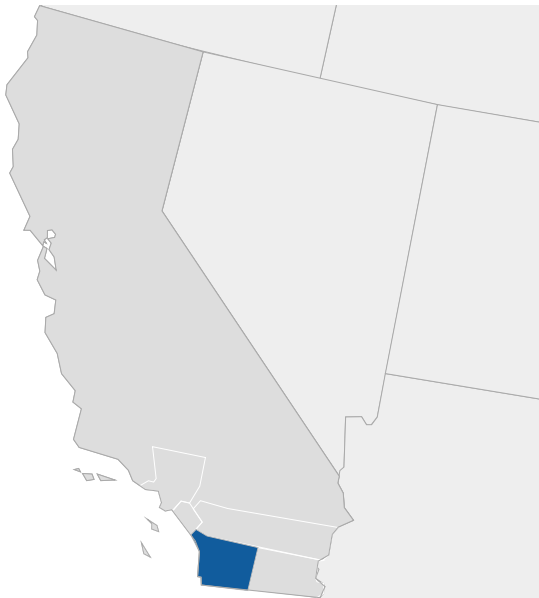
An average area of this size typically has 424* jobs, while there are 501 here. This higher than average supply of jobs may make it easier for workers in this field to find employment in your area.



	Region	2023 Jobs	2024 Jobs	Change	% Change
●	San Diego-Chula Vista-Carlsbad, CA	501	519	17	3.5%
●	National Average	424	432	7	1.8%

*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	501

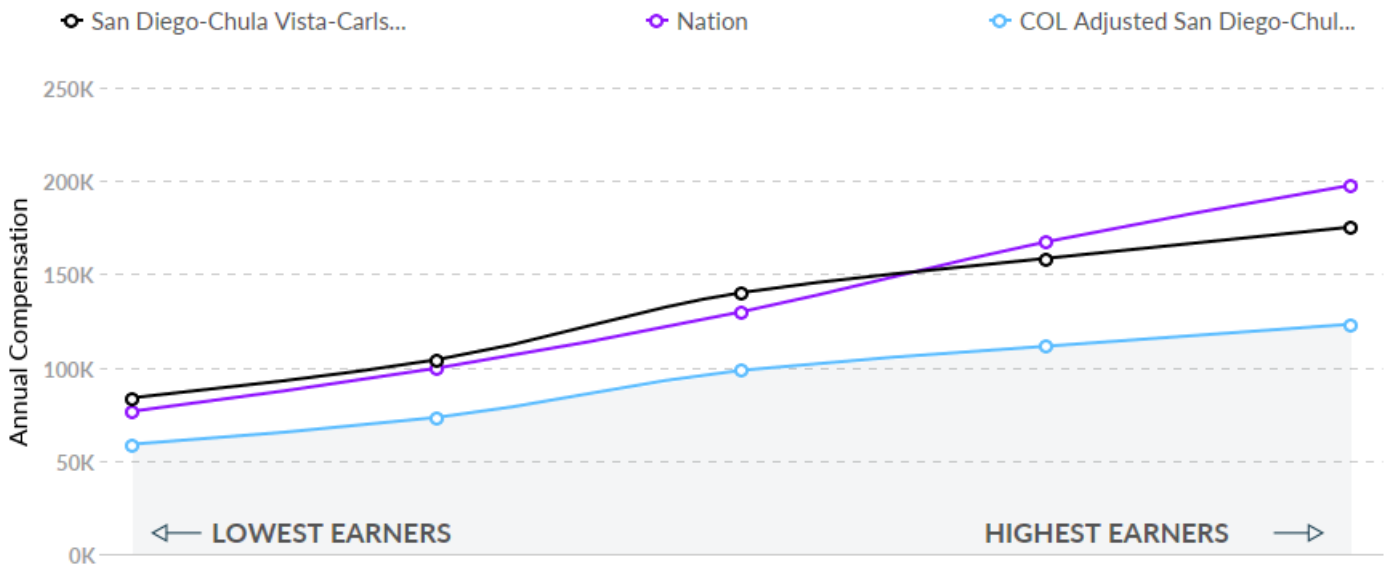
Most Jobs are Found in the Scientific Research and Development Services Industry Sector



Compensation

Regional Compensation Is 8% Higher Than National Compensation

For your occupations, the 2023 median wage in San Diego-Chula Vista-Carlsbad, CA is \$140,076, while the national median wage is \$129,804.



Job Posting Activity



138 Unique Job Postings

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



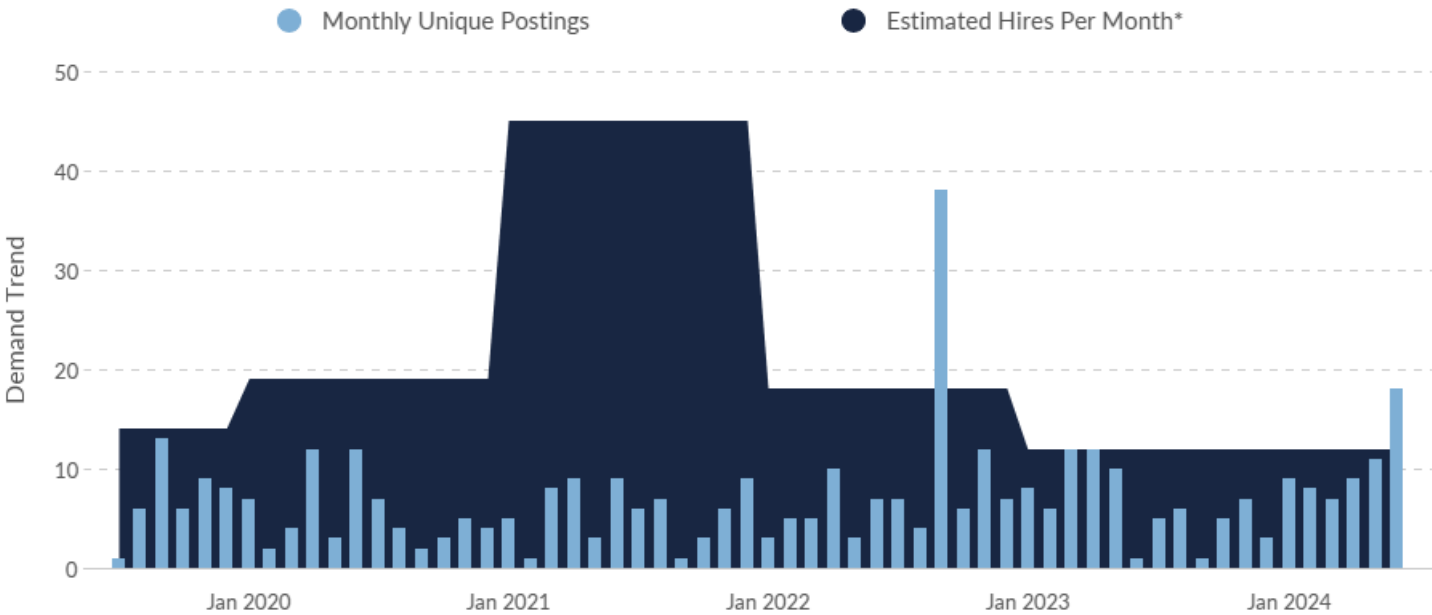
52 Employers Competing

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



29 Day Median Duration

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



Occupation	Avg Monthly Postings (Jan 2023 - Jun 2024)	Avg Monthly Hires (Jan 2023 - Jun 2024)
Physicists	5	6
Nuclear Engineers	3	4
Nuclear Technicians	0	2

*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.

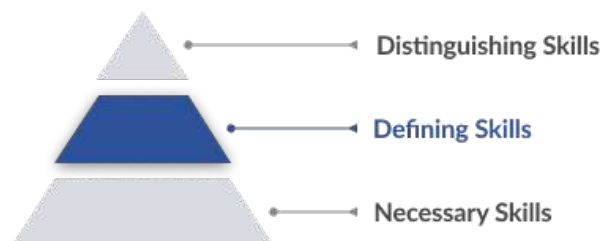
Top Companies	Unique Postings	Top Job Titles	Unique Postings
General Atomics	14 <div></div>	Travel Physician Assistants	26 <div></div>
Leidos	11 <div></div>	Medical Physicists	14 <div></div>
Epic Travel Staffing	10 <div></div>	Electrical Engineers	11 <div></div>
Sharp Healthcare	6 <div></div>	Nuclear Engineers	9 <div></div>
Aureus Medical Group	5 <div></div>	Radiation Physicists	9 <div></div>
Jacobs Engineering Group	5 <div></div>	Radiation Engineers	8 <div></div>
University of California	5 <div></div>	Health Physicists	6 <div></div>
California Proton Therapy Center	4 <div></div>	Systems Monitoring Engineers	5 <div></div>
L3Harris Technologies	4 <div></div>	Physicists	4 <div></div>
OneStaff Medical	4 <div></div>	Design and Development Mana...	3 <div></div>

Top Distinguishing Skills by Demand

Not enough data to display Distinguishing Skills for this occupation.

Top Defining Skills by Demand

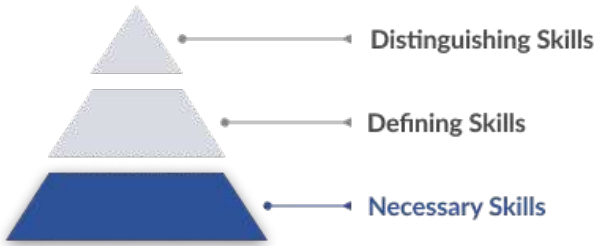
An occupation's Defining Skills represent the day-to-day tasks and responsibilities of the job. An employee needs these skills to qualify for and perform successfully in this occupation.



Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
Physics	✓	52	+12.5%	Growing
Medical Physics	✓	36	+8.0%	Stable
Electrical Engineering	✗	34	+21.2%	Rapidly Growing
Board Certified In Radiology	✗	32	+18.6%	Growing
Treatment Planning	✗	32	+6.7%	Stable
Board Certified/Board Eligible	✗	30	+18.7%	Growing
Nuclear Engineering	✓	27	+5.8%	Stable
Radiation Protection	✗	24	+4.1%	Lagging
Radiation Oncology	✓	20	+14.0%	Growing
Radiation Therapy	✗	17	+2.2%	Lagging

Top Necessary Skills by Demand

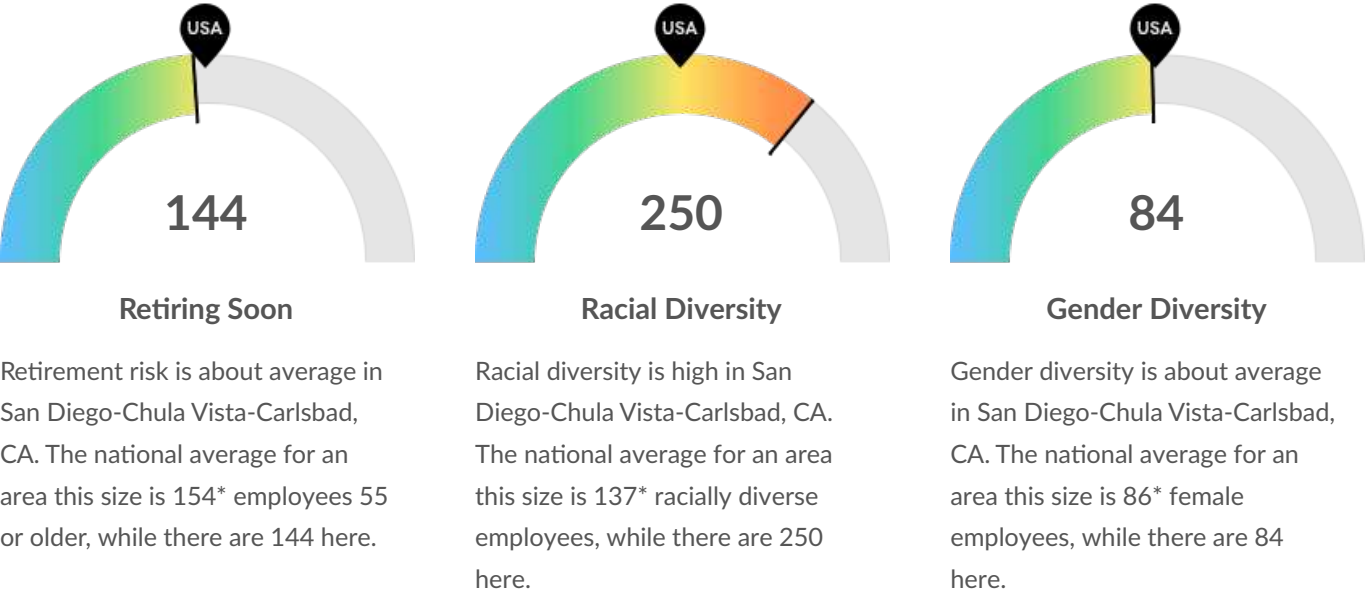
An occupation's Necessary Skills are the specialized skills required for that job and relevant across other similar jobs. An employee needs these skills as building blocks to perform the more complex Defining Skills.



Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
Physics	✓	52	+12.5%	Growing
Electrical Engineering	✗	34	+21.2%	Rapidly Growing
Radiation Protection	✗	24	+4.1%	Lagging
Systems Design	✗	22	+19.3%	Growing
Security Clearance	✗	21	+1.5%	Lagging
Eclipse (Software)	✗	19	+10.2%	Growing
Mechanical Engineering	✗	17	+21.2%	Rapidly Growing
Data Analysis	✗	16	+25.8%	Rapidly Growing
Nuclear Reactor	✗	13	+1.8%	Lagging
Workflow Management	✗	12	+18.0%	Growing

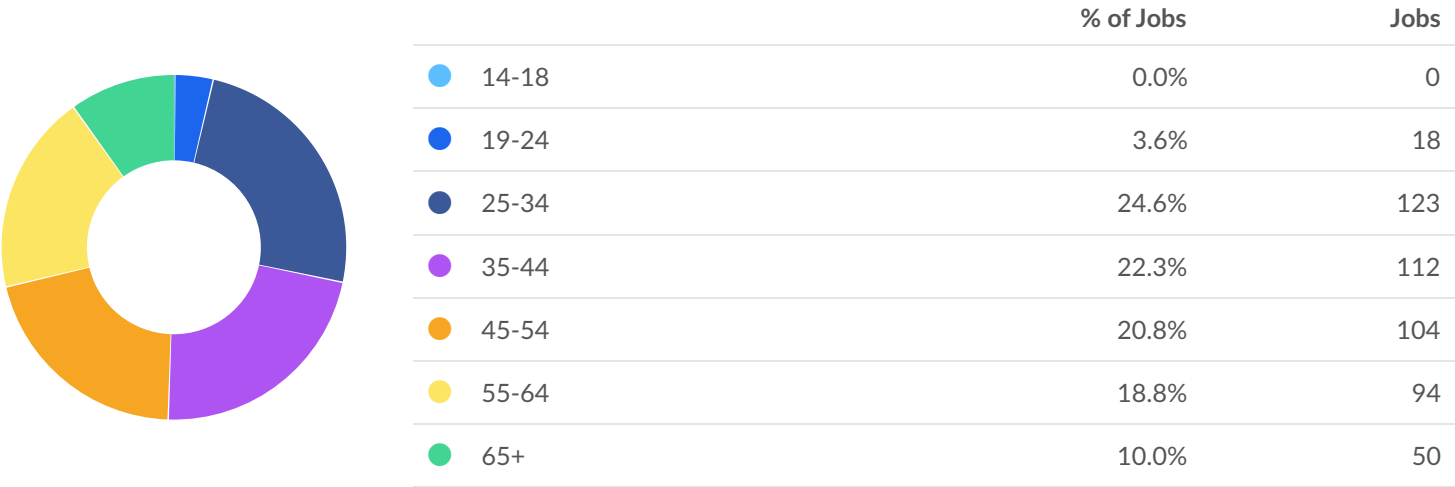
Demographics

Retirement Risk Is About Average, While Overall Diversity Is High

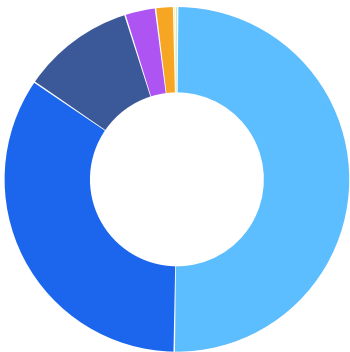


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Occupation Age Breakdown

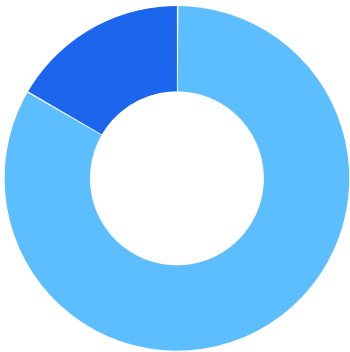


Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
White	50.2%	252
Asian	34.3%	172
Hispanic or Latino	10.6%	53
Two or More Races	2.9%	14
Black or African American	1.7%	8
Native Hawaiian or Other Pacific Islander	0.2%	1
American Indian or Alaska Native	0.2%	1

Occupation Gender Breakdown



	% of Jobs	Jobs
Males	83.3%	417
Females	16.7%	84

Occupational Programs



9 Programs

Of the programs that can train for this job, 9 have produced completions in the last 5 years.



325 Completions (2023)

The completions from all regional institutions for all degree types.



48 Openings (2023)

The average number of openings for an occupation in the region is 257.

CIP Code	Top Programs	Completions (2023)	
40.0801	Physics, General	164	<div></div>
14.0102	Pre-Engineering	53	<div></div>
40.0899	Physics, Other	40	<div></div>
14.0101	Engineering, General	30	<div></div>
14.1201	Engineering Physics/Applied Physics	15	<div></div>
51.2205	Health/Medical Physics	10	<div></div>
40.0201	Astronomy	8	<div></div>
40.0101	Physical Sciences, General	5	<div></div>

Top Schools	Completions (2023)	
University of California-San Diego	102	<div></div>
San Diego State University	47	<div></div>
San Diego Miramar College	41	<div></div>
University of San Diego	31	<div></div>
San Diego Mesa College	27	<div></div>
Cuyamaca College	24	<div></div>
California State University-San Marcos	15	<div></div>
Grossmont College	12	<div></div>
San Diego City College	12	<div></div>
Point Loma Nazarene University	7	<div></div>

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.