



40.0501
in Region

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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, resums, 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

2 Occupations

11-9121	Natural Sciences Managers	19-2031	Chemists
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4 Counties

4003	Cochise County, AZ	4019	Pima County, AZ
4009	Graham County, AZ	4023	Santa Cruz County, AZ

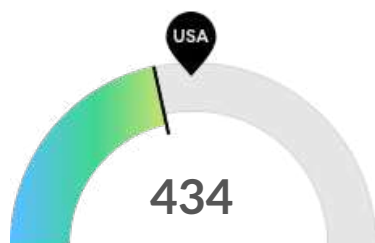
Class of Worker

QCEW Employees and Non-QCEW Employees

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

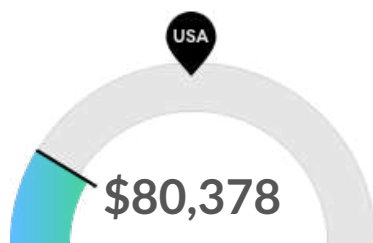
Executive Summary

Light Job Posting Demand Over a Thin Supply of Regional Jobs



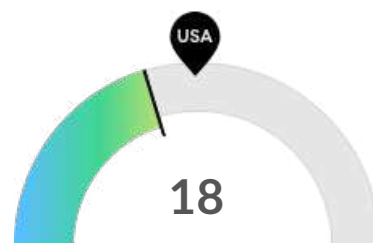
Jobs (2023)

Your area is not a hotspot for this kind of job. The national average for an area this size is 534* employees, while there are 434 here.



Compensation

Earnings are low in your area. The national median salary for your occupations is \$107,067, compared to \$80,378 here.



Job Posting Demand

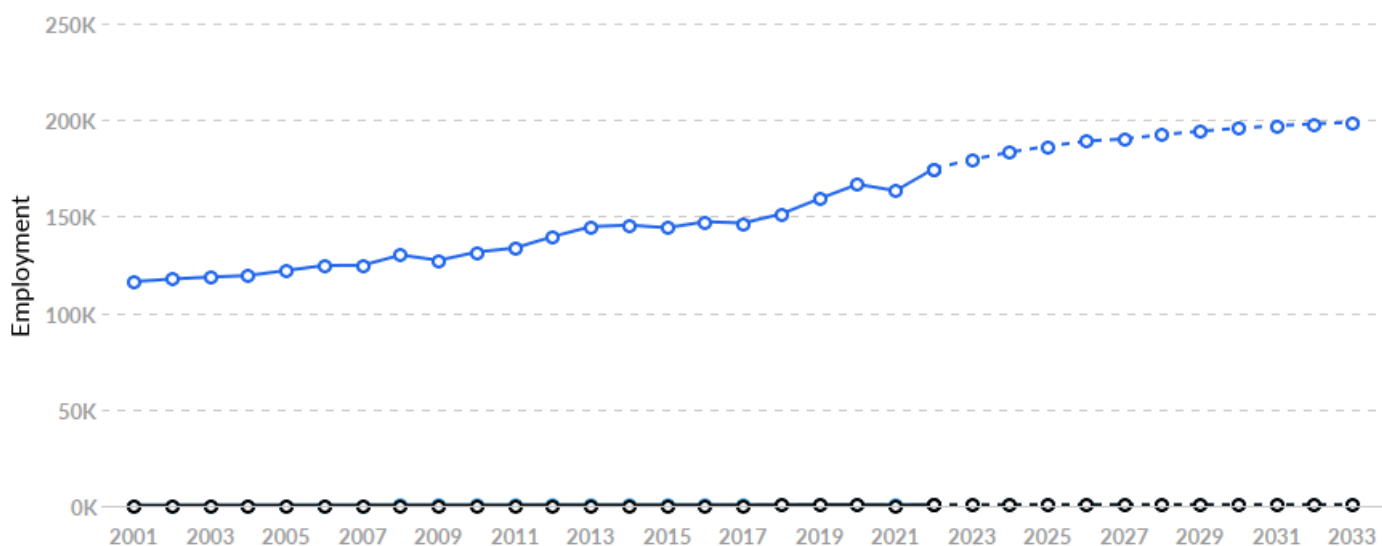
Job posting activity is low in your area. The national average for an area this size is 24* job postings/mo, while there are 18 here.

*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

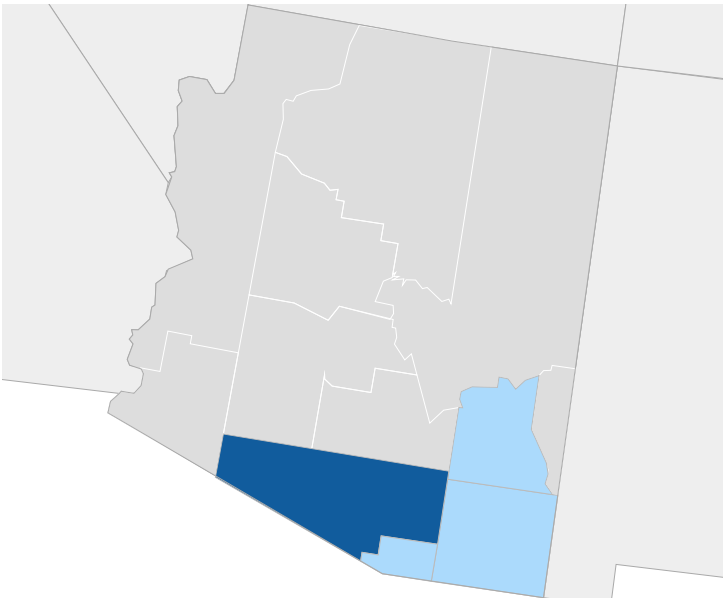
An average area of this size typically has 534* jobs, while there are 434 here. This lower than average supply of jobs may make it more difficult for workers in this field to find employment in your area.



	Region	2023 Jobs	2033 Jobs	Change	% Change
●	Region	434	481	46	10.7%
●	National Average	534	579	45	8.4%
●	United States	179,507	198,780	19,273	10.7%

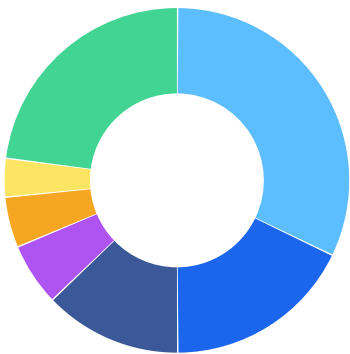
*National average values are derived by taking the national value for your occupations and scaling it down to account for the difference in overall workforce size between the nation and your area. In other words, the values represent the national average adjusted for region size.

Regional Breakdown



County	2023 Jobs
Pima County, AZ	381
Cochise County, AZ	35
Santa Cruz County, AZ	13
Graham County, AZ	<10

Most Jobs are Found in the Federal Government, Civilian Industry Sector

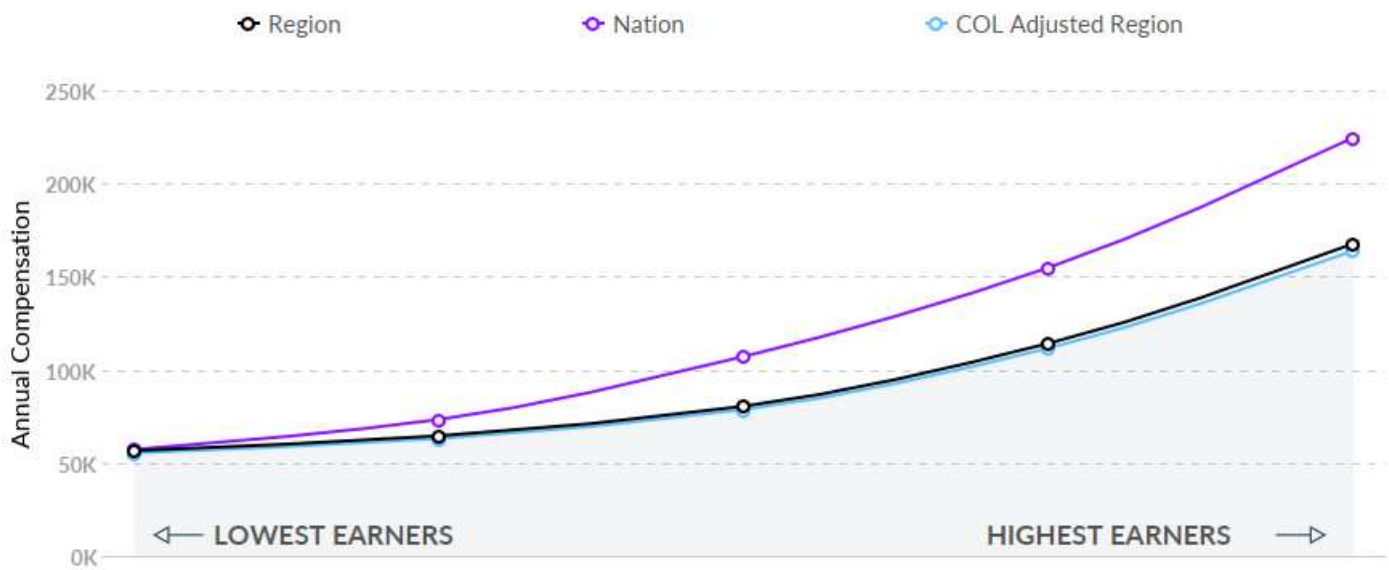


Industry	% of Occupation in Industry (2023)
 Federal Government, Civilian	32.1%
 Scientific Research and Development Services	17.8%
 Architectural, Engineering, and Related Services	12.9%
 Local Government, Excluding Education and Hospitals	5.9%
 Education and Hospitals (State Government)	4.7%
 State Government, Excluding Education and Hospitals	3.6%
 Other	23.0%

Compensation

Regional Compensation Is 25% Lower Than National Compensation

For your occupations, the 2022 median wage in your area is \$80,378, while the national median wage is \$107,067.



Job Posting Activity



196 Unique Job Postings

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



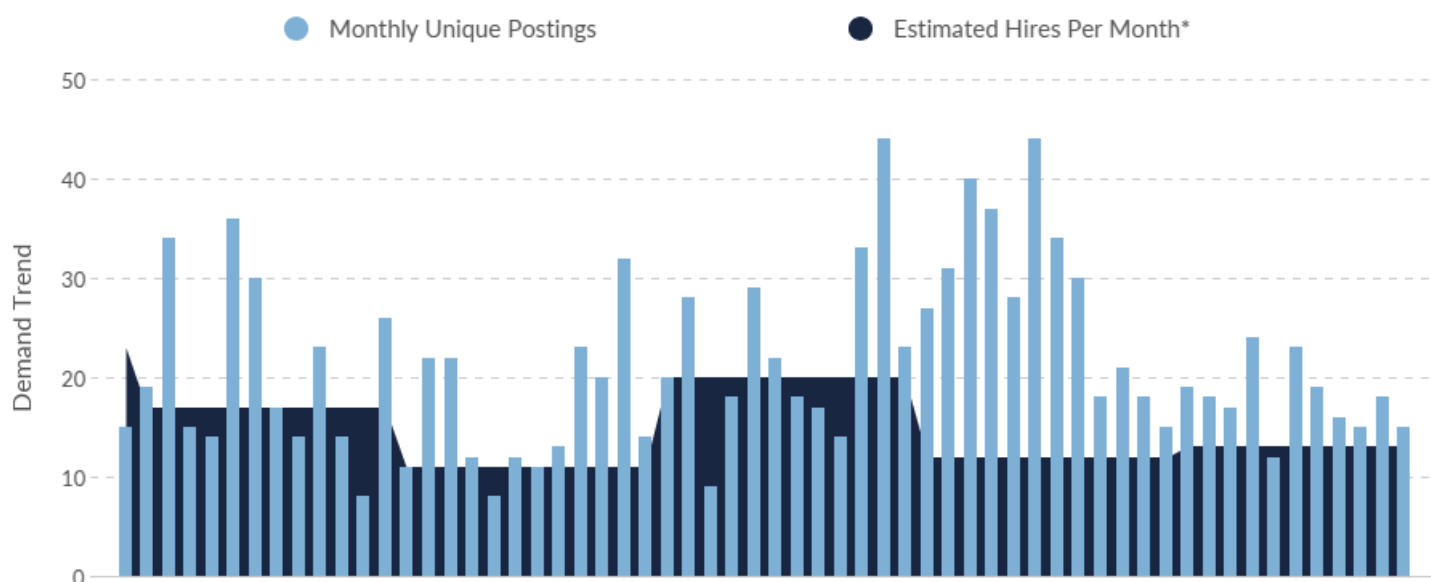
65 Employers Competing

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



27 Day Median Duration

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



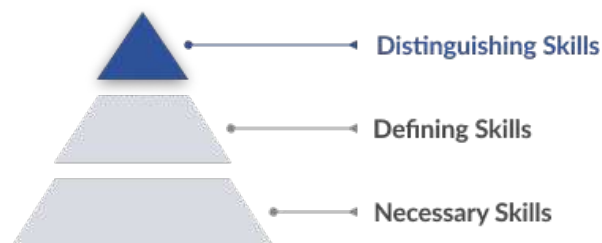
Occupation	Avg Monthly Postings (Jan 2023 - Nov 2023)	Avg Monthly Hires (Jan 2023 - Nov 2023)
Natural Sciences Managers	14	5
Chemists	4	8

*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
University of Arizona	69 <div></div>	Clinical Research Coordinators	67 <div></div>
Actalent	12 <div></div>	Clinical Research Managers	11 <div></div>
Wake Research Corporation	8 <div></div>	Research Coordinators	8 <div></div>
Roche	7 <div></div>	Chemists	6 <div></div>
Arizona Liver Health	4 <div></div>	Clinical Trial Managers	6 <div></div>
Tucson Medical Center	4 <div></div>	Clinical Research Associates	5 <div></div>
Arizona College of Nursing	3 <div></div>	Directors of Laboratory Operati...	4 <div></div>
US Oncology Network	3 <div></div>	Postdoctoral Fellows	4 <div></div>
Zachary Piper Solutions	3 <div></div>	Research Geologists	4 <div></div>
Arizona Kidney Disease & Hype...	2 <div></div>	Adjunct Chemistry Instructors	3 <div></div>

Top Distinguishing Skills by Demand

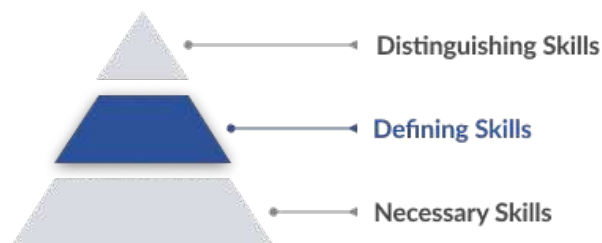
An occupation's Distinguishing Skills are the advanced skills that are called for occasionally. An employee with these skills is likely more specialized and able to differentiate themselves from others in the same role.



Skill	Salary Boosting	Job Postings Requesting
Human Subject Research	✓	25
Certified Risk Adjustment Coder (CRC)	✗	24
ICH Guidelines	✓	7
Gas Chromatography Mass Spectrometry	✗	6
Coherent Remote File System (CRFS)	✓	5
Site Selection	✓	4
Fourier Transform Infrared Spectroscopy	✗	3
Gas Chromatography	✗	3
Spectroscopy	✗	3
Sample Preparation	✗	2

Top Defining Skills by Demand

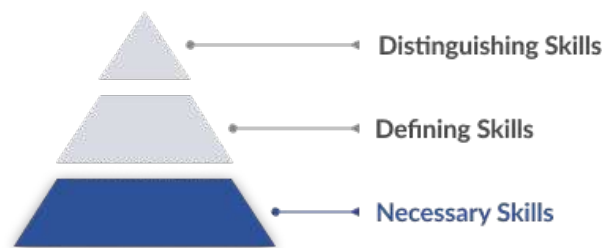
An occupation's Defining Skills represent the day-to-day tasks and responsibilities of the job. An employee needs these skills to qualify for and perform successfully in this occupation.



Skill	Salary Boosting	Job Postings Requesting
Clinical Research	×	106
Clinical Trials	×	94
Clinical Research Coordination	×	80
Institutional Review Board (IRB)	×	48
Informed Consent	✓	37
Good Clinical Practices (GCP)	×	36
Chemistry	×	33
Regulatory Documents	×	28
Biology	×	23
Project Management	×	23

Top Necessary Skills by Demand

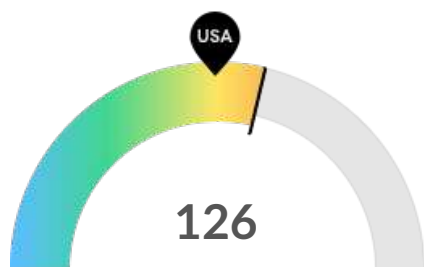
An occupation's Necessary Skills are the specialized skills required for that job and relevant across other similar jobs. An employee needs these skills as building blocks to perform the more complex Defining Skills.



Skill	Salary Boosting	Job Postings Requesting
Data Collection	×	40
Standard Operating Procedure	×	38
Data Management	×	28
Biology	×	23
Project Management	×	23
Nursing	×	23
Auditing	×	20
Data Analysis	×	14
New Product Development	×	10
Pharmaceuticals	×	10

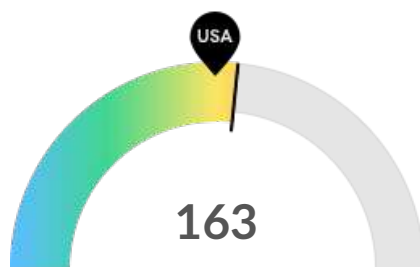
Demographics

Retirement Risk Is High, While Overall Diversity Is About Average



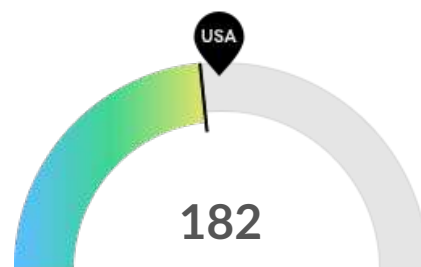
Retiring Soon

Retirement risk is high in your area. The national average for an area this size is 102* employees 55 or older, while there are 126 here.



Racial Diversity

Racial diversity is about average in your area. The national average for an area this size is 149* racially diverse employees, while there are 163 here.

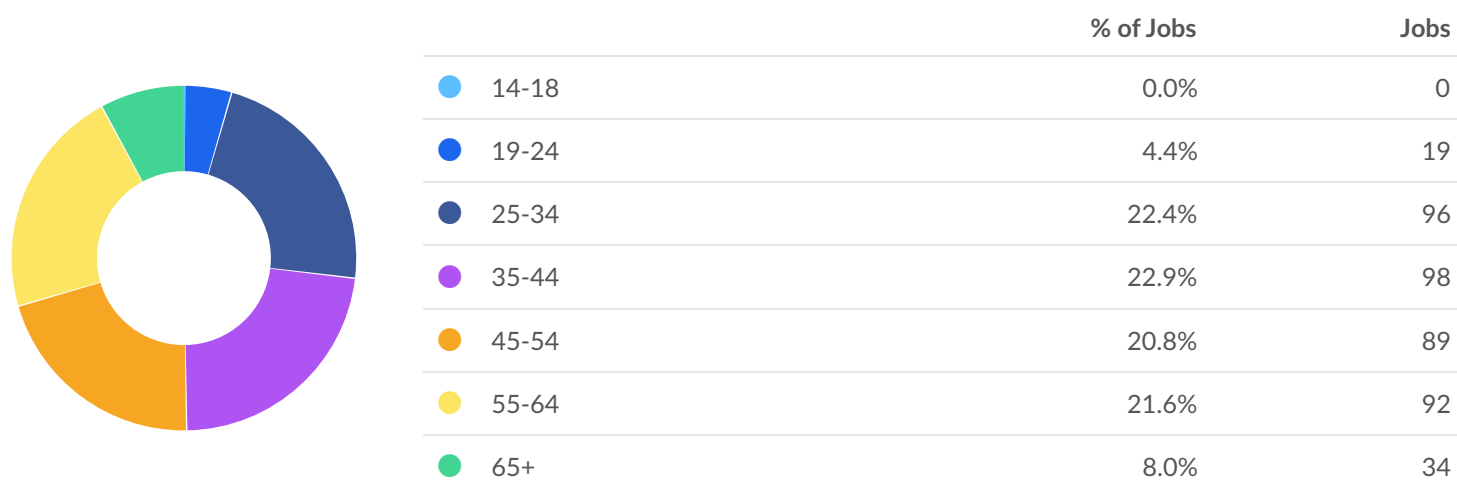


Gender Diversity

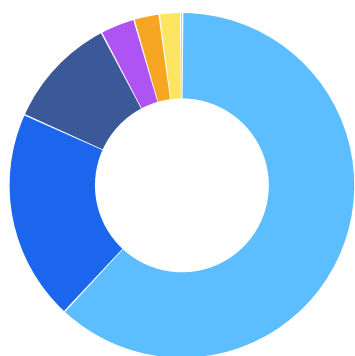
Gender diversity is about average in your area. The national average for an area this size is 201* female employees, while there are 182 here.

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Occupation Age Breakdown

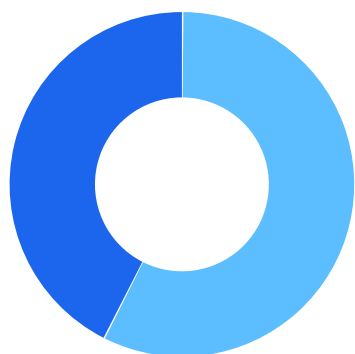


Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
White	61.9%	264
Hispanic or Latino	19.8%	85
Asian	10.6%	45
Two or More Races	3.2%	14
Black or African American	2.4%	10
American Indian or Alaska Native	2.0%	8
Native Hawaiian or Other Pacific Islander	0.2%	1

Occupation Gender Breakdown



	% of Jobs	Jobs
Males	57.4%	245
Females	42.6%	182

Occupational Programs



41 Programs

Of the programs that can train for this job, 41 have produced completions in the last 5 years.



1,235 Completions (2022)

The completions from all regional institutions for all degree types.



37 Openings (2022)

The average number of openings for an occupation in the region is 77.

CIP Code	Top Programs	Completions (2022)
30.1901	Nutrition Sciences	151 <div></div>
26.1501	Neuroscience	128 <div></div>
40.0807	Optics/Optical Sciences	121 <div></div>
26.0101	Biology/Biological Sciences, General	115 <div></div>
27.0101	Mathematics, General	77 <div></div>
40.0601	Geology/Earth Science, General	70 <div></div>
26.0202	Biochemistry	68 <div></div>
14.0701	Chemical Engineering	62 <div></div>
40.0501	Chemistry, General	50 <div></div>
26.0502	Microbiology, General	45 <div></div>

Top Schools	Completions (2022)
University of Arizona	1,228 <div></div>
Cochise County Community College District	6 <div></div>
Eastern Arizona College	1 <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

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.