



**27.0101**  
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

### 5 Occupations

11-9121	Natural Sciences Managers
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15-2021	Mathematicians
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15-2041	Statisticians
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15-2051	Data Scientists
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15-2099	Mathematical Science Occupations, All
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Other	
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### 4 Counties

4003	Cochise County, AZ
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4009	Graham County, AZ
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4019	Pima County, AZ
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4023	Santa Cruz County, AZ
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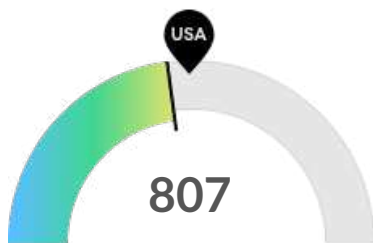
### Class of Worker

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



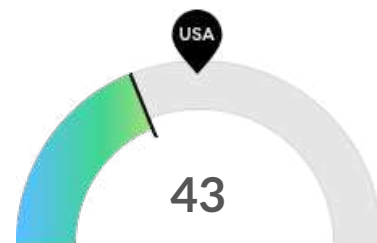
**Jobs (2023)**

Your area is not a hotspot for this kind of job. The national average for an area this size is 914\* employees, while there are 807 here.



**Compensation**

Earnings are low in your area. The national median salary for your occupations is \$112,162, compared to \$96,618 here.



**Job Posting Demand**

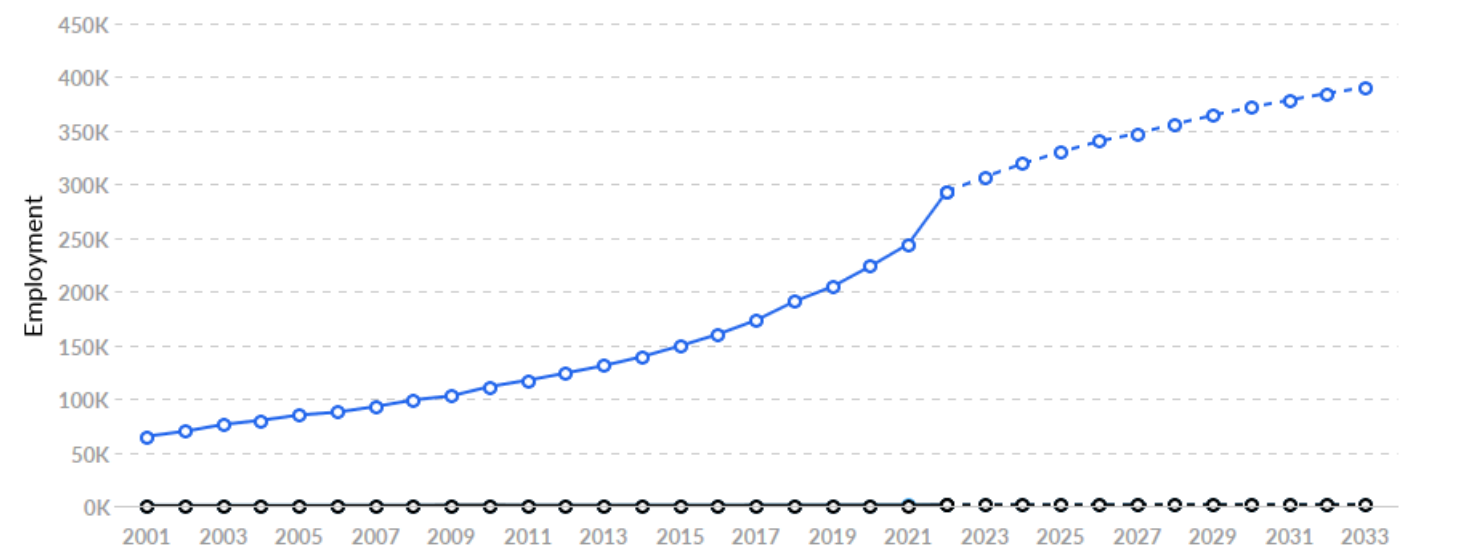
Job posting activity is low in your area. The national average for an area this size is 64\* job postings/mo, while there are 43 here.

\*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

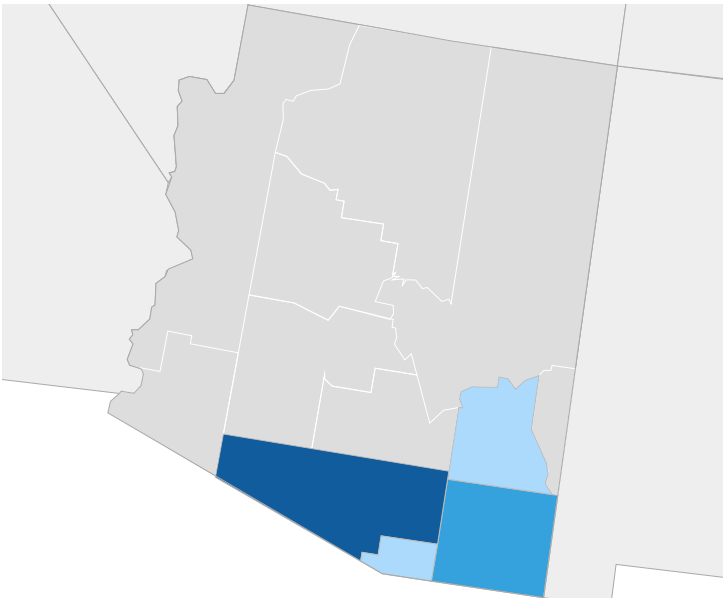
An average area of this size typically has 914\* jobs, while there are 807 here. This lower than average supply of jobs may make it more difficult for workers in this field to find employment in your area.



	Region	2023 Jobs	2033 Jobs	Change	% Change
●	Region	807	985	178	22.0%
●	National Average	914	1,138	224	24.5%
●	United States	307,030	390,444	83,414	27.2%

\*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.

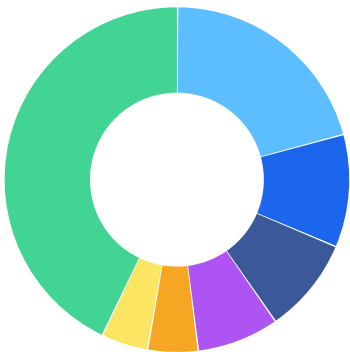
## Regional Breakdown



County	2023 Jobs
Pima County, AZ	573
Cochise County, AZ	191
Santa Cruz County, AZ	29
Graham County, AZ	15



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



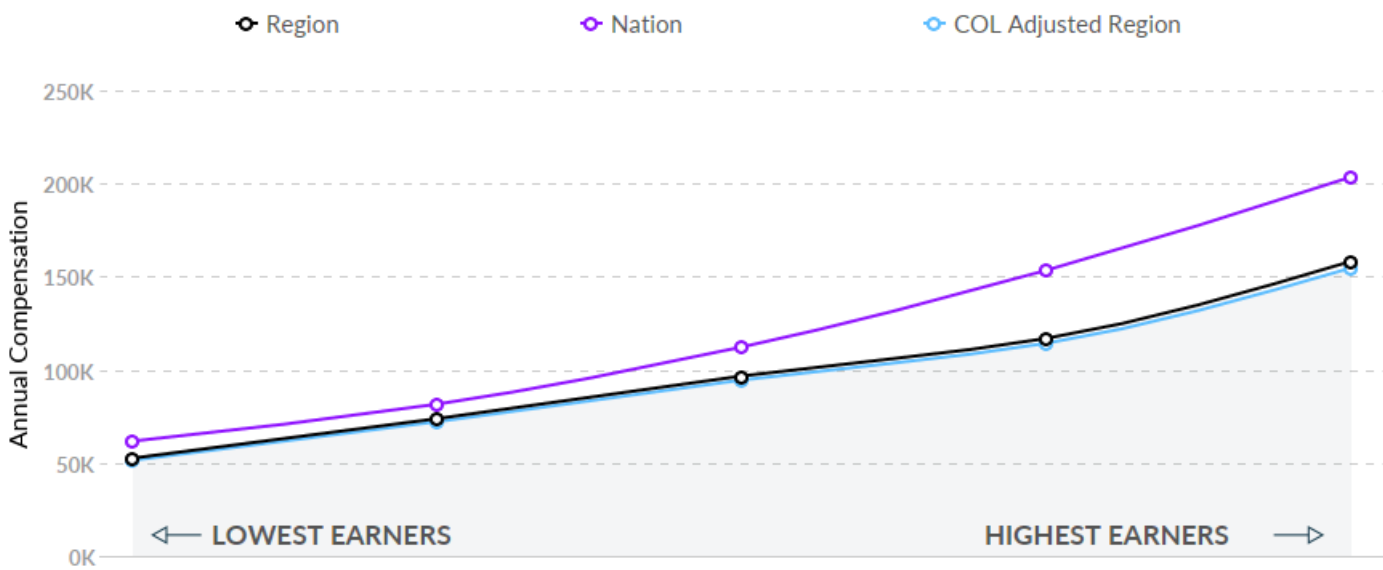
Industry	% of Occupation in Industry (2023)
<div></div> Federal Government, Civilian	20.7%
<div></div> Scientific Research and Development Services	10.6%
<div></div> Education and Hospitals (State Government)	9.0%
<div></div> Computer Systems Design and Related Services	7.7%
<div></div> Architectural, Engineering, and Related Services	4.7%
<div></div> Management, Scientific, and Technical Consulting Services	4.4%
<div></div> Other	43.0%



## Compensation

### Regional Compensation Is 14% Lower Than National Compensation

For your occupations, the 2022 median wage in your area is \$96,618, while the national median wage is \$112,162.



## Job Posting Activity



### 477 Unique Job Postings

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



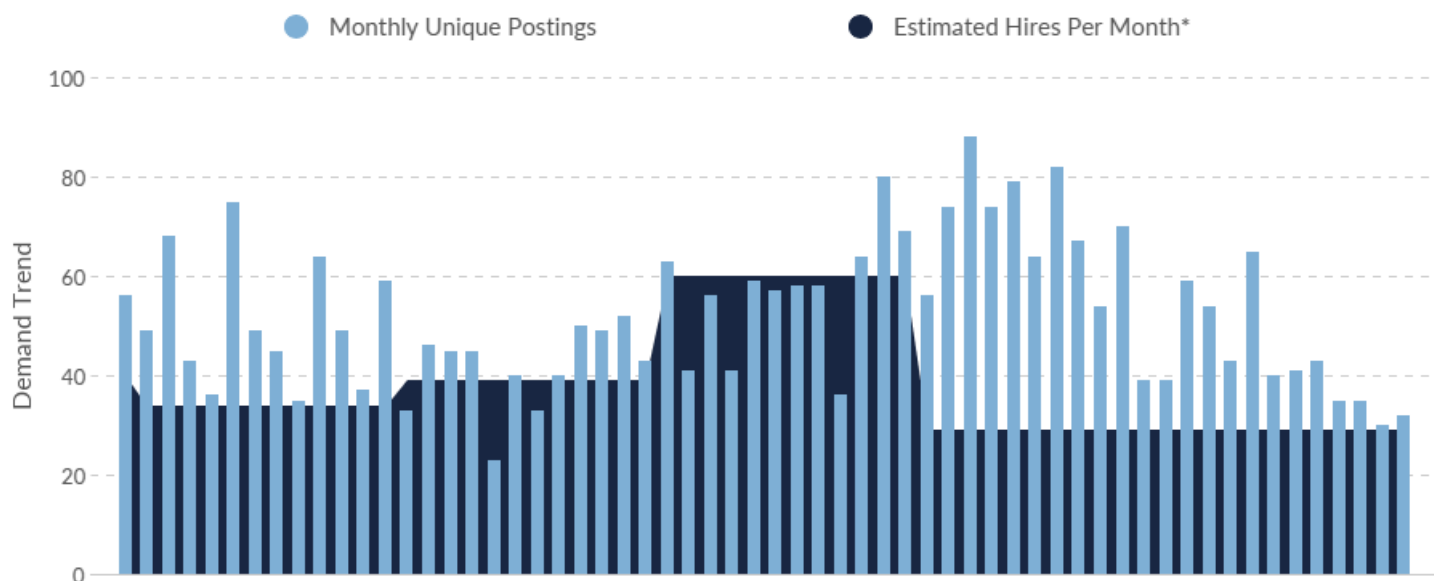
### 147 Employers Competing

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)
Data Scientists	25	15
Natural Sciences Managers	14	5
Statisticians	3	8
Mathematical Science Occupations, All Other	1	0
Mathematicians	0	0

\*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	118 	Clinical Research Coordinators	67 
Raytheon Technologies	27 	Data Analysts	37 
Actalent	13 	Data Scientists	25 
Cox Communications	8 	Business Intelligence Analysts	19 
Deloitte	8 	Clinical Research Managers	11 
Humana	8 	Electro-Optical Engineers	10 
Pima County	8 	Research Coordinators	8 
Wake Research Corporation	8 	Biostatisticians	6 
CTG	7 	Clinical Trial Managers	6 
El Rio Community Health Center	7 	Clinical Data Managers	5 

## Top Distinguishing Skills by Demand

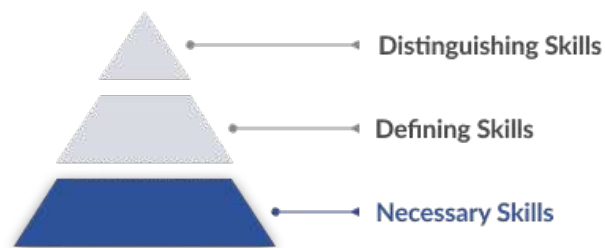
Not enough data to display Distinguishing Skills for this occupation.

## Top Defining Skills by Demand

Not enough data to display Defining Skills for this occupation.

## Top Necessary Skills by Demand

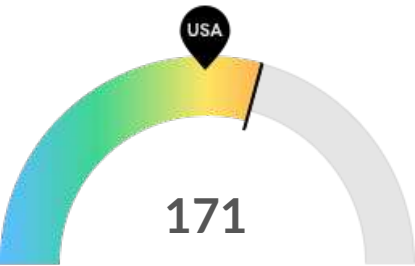
An occupation's Necessary Skills are the specialized skills required for that job and relevant across other similar jobs. An employee needs these skills as building blocks to perform the more complex Defining Skills.



Skill	Salary Boosting	Job Postings Requesting
Data Analysis	✗	185
Clinical Research	✗	109
SQL (Programming Language)	✓	107
Python (Programming Language)	✗	80
Data Management	✗	79
Data Science	✗	78
Data Collection	✗	71
Project Management	✗	67
Data Entry	✗	60
Business Process	✗	48

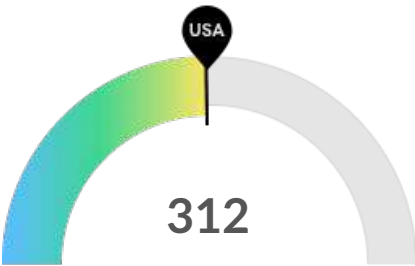
# Demographics

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



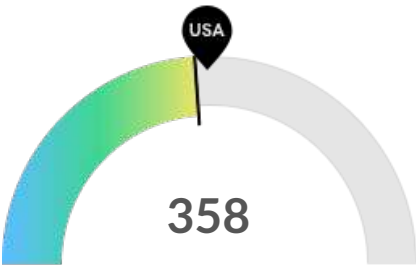
Retiring Soon

Retirement risk is high in your area. The national average for an area this size is 135\* employees 55 or older, while there are 171 here.



Racial Diversity

Racial diversity is about average in your area. The national average for an area this size is 317\* racially diverse employees, while there are 312 here.

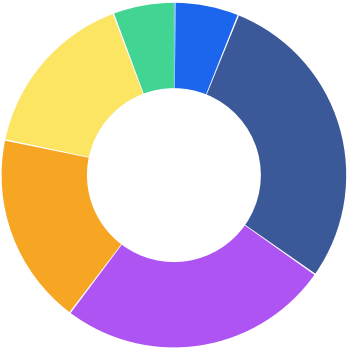


Gender Diversity

Gender diversity is about average in your area. The national average for an area this size is 382\* female employees, while there are 358 here.

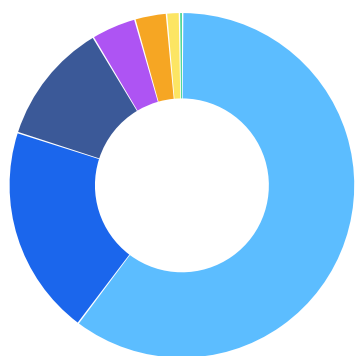
\*National average values are derived by taking the national value for your occupations and scaling it down to account for the difference in overall workforce size between the nation and your area. In other words, the values represent the national average adjusted for region size.

## Occupation Age Breakdown



	% of Jobs	Jobs
14-18	0.0%	0
19-24	6.0%	47
25-34	28.7%	225
35-44	25.5%	200
45-54	18.0%	141
55-64	16.0%	126
65+	5.8%	45

## Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
White	60.2%	472
Hispanic or Latino	19.7%	154
Asian	11.5%	90
Two or More Races	4.2%	33
Black or African American	3.0%	23
American Indian or Alaska Native	1.2%	9
Native Hawaiian or Other Pacific Islander	0.3%	2

## Occupation Gender Breakdown



	% of Jobs	Jobs
Males	54.4%	427
Females	45.6%	358



# Occupational Programs



## 48 Programs

Of the programs that can train for this job, 48 have produced completions in the last 5 years.



## 2,427 Completions (2022)

The completions from all regional institutions for all degree types.



## 72 Openings (2022)

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

CIP Code	Top Programs	Completions (2022)
51.0701	Health/Health Care Administration/Management	484 <div></div>
51.2201	Public Health, General	385 <div></div>
11.0701	Computer Science	240 <div></div>
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>
11.1003	Computer and Information Systems Security/Auditing/Infor...	74 <div></div>
40.0601	Geology/Earth Science, General	70 <div></div>

Top Schools	Completions (2022)
University of Arizona	1,921 <div></div>
Pima Medical Institute-Tucson	438 <div></div>
Pima Community College	52 <div></div>
Cochise County Community College District	15 <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.