

Astronomers 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, 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

1 Occupation

19-2011 Astronomers

1 MSA

41740 San Diego-Chula Vista-Carlsbad, CA

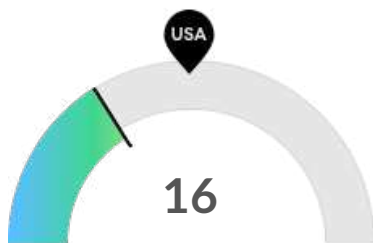
Class of Worker

QCEW Employees

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

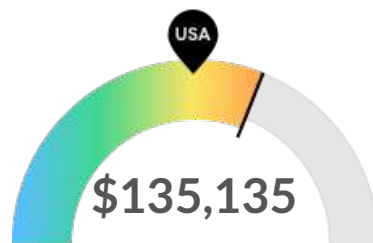
Executive Summary

Light Job Posting Demand Over a Thin Supply of Regional Jobs



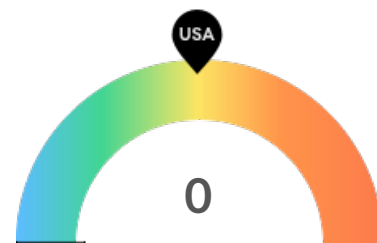
Jobs (2023)

San Diego-Chula Vista-Carlsbad, CA is not a hotspot for this kind of job. The national average for an area this size is 28* employees, while there are 16 here.



Compensation

Earnings are high in San Diego-Chula Vista-Carlsbad, CA. The national median salary for Astronomers is \$127,920, compared to \$135,135 here.



Job Posting Demand

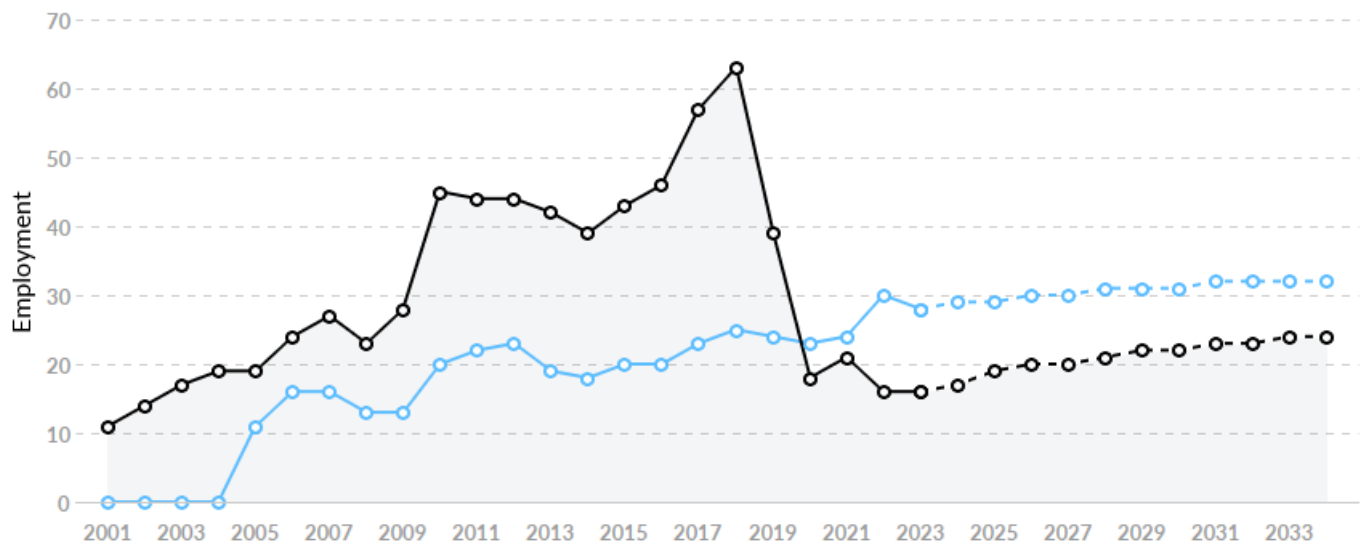
Reliable competition information is not available in San Diego-Chula Vista-Carlsbad, CA because there are too few postings.

*National average values are derived by taking the national value for Astronomers 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 Lower Than the National Average

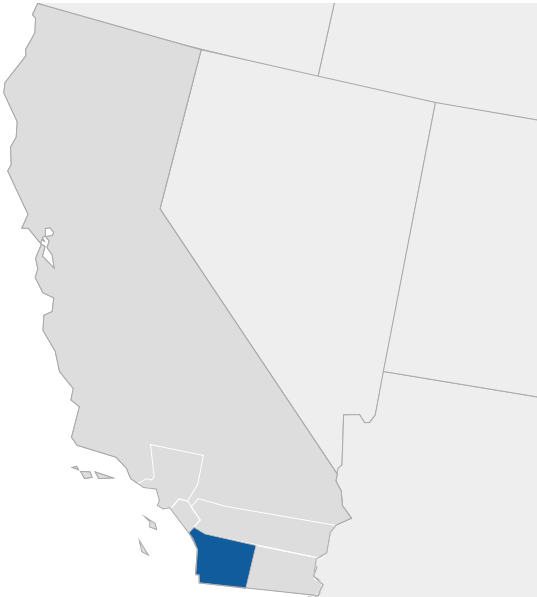
An average area of this size typically has 28* jobs, while there are 16 here. This lower than average supply of jobs may make it more difficult for workers in this field to find employment in your area.



Region		2023 Jobs	2024 Jobs	Change	% Change
●	San Diego-Chula Vista-Carlsbad, CA	16	17	2	9.5%
●	National Average	28	29	1	2.5%

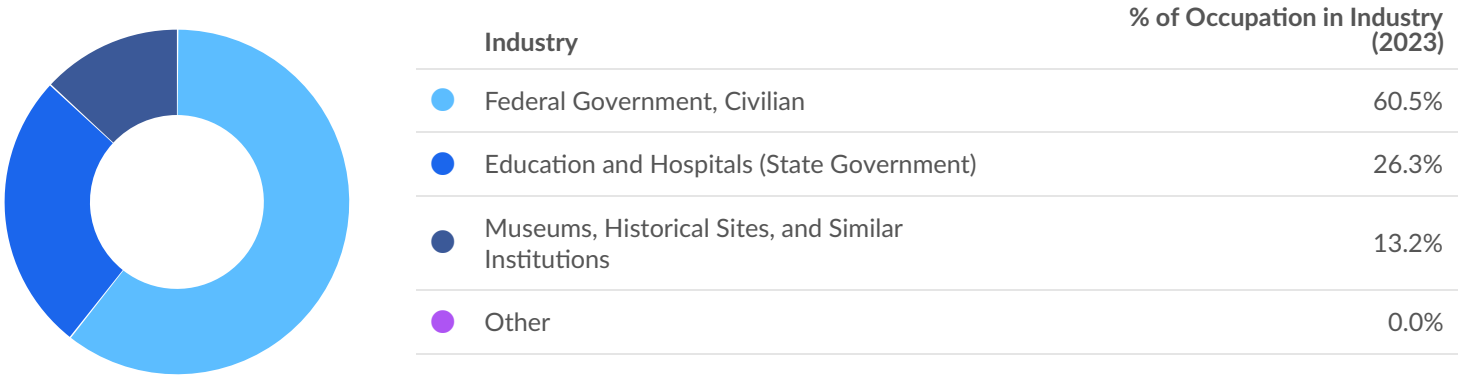
*National average values are derived by taking the national value for Astronomers and scaling it down to account for the difference in overall workforce size between the nation and San Diego-Chula Vista-Carlsbad, CA. In other words, the values represent the national average adjusted for region size.

Regional Breakdown



County	2023 Jobs
San Diego County, CA	16

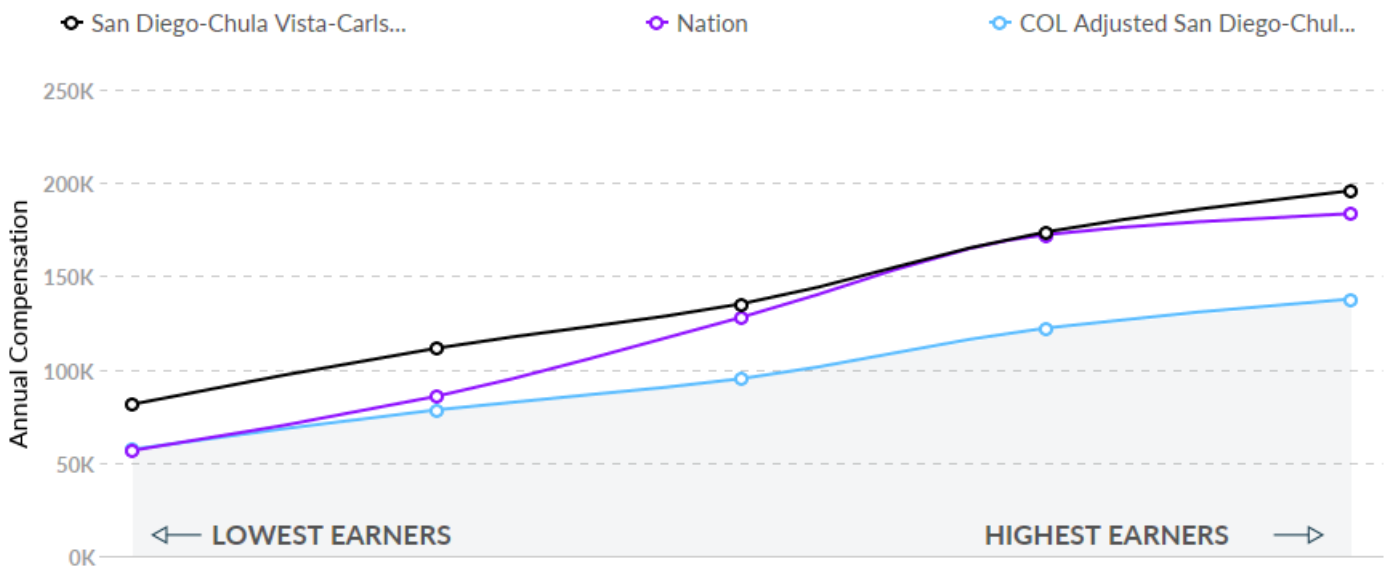
Most Jobs are Found in the Federal Government, Civilian Industry Sector



Compensation

Regional Compensation Is 6% Higher Than National Compensation

For Astronomers, the 2023 median wage in San Diego-Chula Vista-Carlsbad, CA is \$135,135, while the national median wage is \$127,920.



Job Posting Activity

No Companies Are Competing for Talent

This section cannot be shown because there aren't any relevant job postings in San Diego-Chula Vista-Carlsbad, CA.

Not enough data to show the Top Companies section.

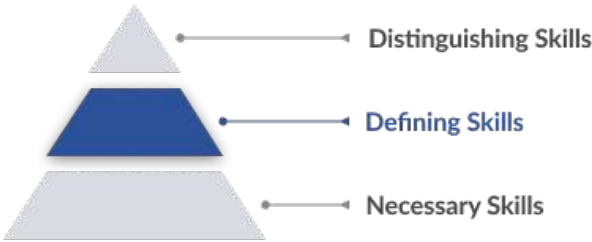
Not enough data to show the Top Job Titles section.

Top Distinguishing Skills by Demand

Not enough data to display Distinguishing Skills for this occupation.

Top Defining Skills by Demand

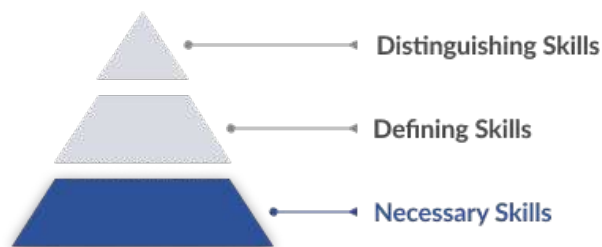
An occupation's Defining Skills represent the day-to-day tasks and responsibilities of the job. An employee needs these skills to qualify for and perform successfully in this occupation.



Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
Data Analysis	✖	0	+25.8%	Rapidly Growing
Astronomy	✖	0	+7.4%	Stable
Astrophysics	✔	0	+9.1%	Growing
Python (Programming Language)	✖	0	+24.5%	Rapidly Growing
Physics	✔	0	+12.5%	Growing

Top Necessary Skills by Demand

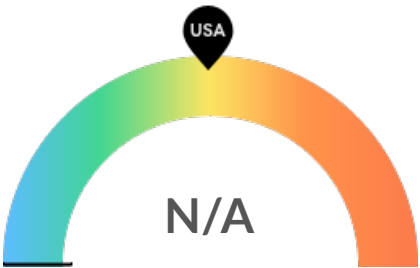
An occupation's Necessary Skills are the specialized skills required for that job and relevant across other similar jobs. An employee needs these skills as building blocks to perform the more complex Defining Skills.



Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
Planetary Science	×	0	+6.9%	Stable
Physical Science	×	0	+4.8%	Stable
Workflow Management	×	0	+18.0%	Growing
Apache Airflow	×	0	+11.3%	Growing
Amazon Web Services	×	0	+24.0%	Rapidly Growing
Electrical Engineering	×	0	+21.2%	Rapidly Growing
Optics	×	0	+6.0%	Stable
Microsoft Azure	×	0	+28.9%	Rapidly Growing
Big Data	×	0	+14.6%	Growing
Cloud Infrastructure	×	0	+11.7%	Growing

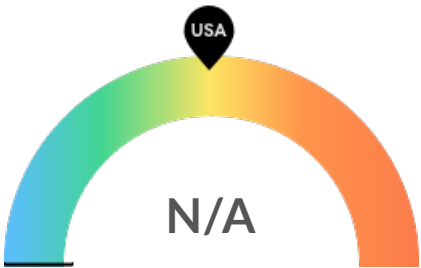
Demographics

Reliable Retirement and Diversity Information Is Not Available



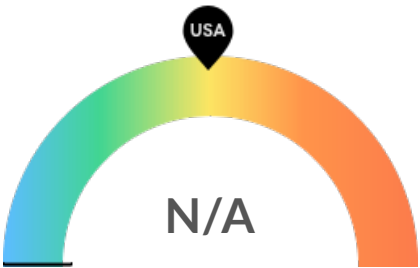
Retiring Soon

Reliable retirement information is not available in San Diego-Chula Vista-Carlsbad, CA, because there are too few employees.



Racial Diversity

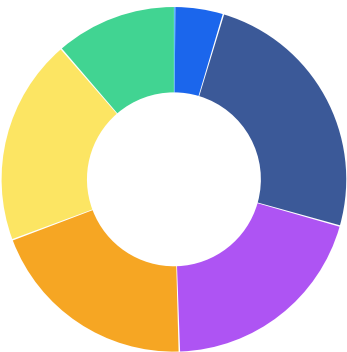
Reliable racial diversity information is not available in San Diego-Chula Vista-Carlsbad, CA, because there are too few employees.



Gender Diversity

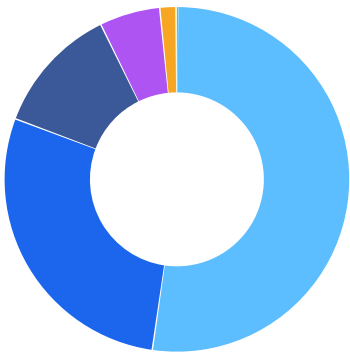
Reliable gender diversity information is not available in San Diego-Chula Vista-Carlsbad, CA, because there are too few employees.

Occupation Age Breakdown



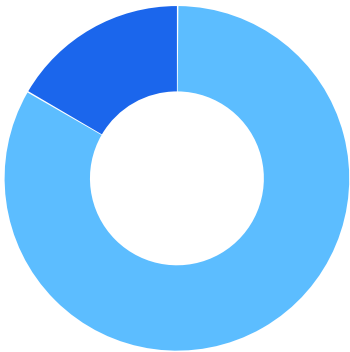
	% of Jobs	Jobs
14-18	0.0%	0
19-24	4.6%	1
25-34	24.7%	4
35-44	20.1%	3
45-54	19.8%	3
55-64	19.4%	3
65+	11.4%	2

Occupation Race/Ethnicity Breakdown



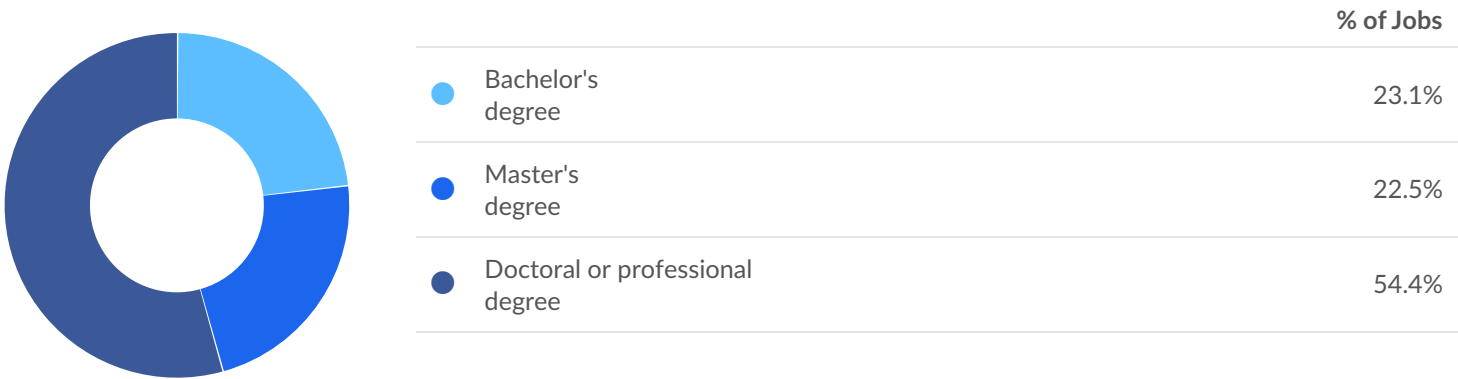
	% of Jobs	Jobs
White	52.2%	8
Asian	28.4%	4
Hispanic or Latino	12.0%	2
Two or More Races	5.7%	1
Black or African American	1.5%	0
American Indian or Alaska Native	0.1%	0
Native Hawaiian or Other Pacific Islander	0.0%	0

Occupation Gender Breakdown



	% of Jobs	Jobs
Males	83.3%	13
Females	16.7%	3

National Educational Attainment



Occupational Programs



3 Programs

Of the programs that can train for this job, 3 have produced completions in the last 5 years.



177 Completions (2023)

The completions from all regional institutions for all degree types.



2 Openings (2023)

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

CIP Code	Top Programs	Completions (2023)
40.0801	Physics, General	164 <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	64 <div></div>
San Diego State University	37 <div></div>
San Diego Mesa College	19 <div></div>
University of San Diego	15 <div></div>
Grossmont College	12 <div></div>
San Diego Miramar College	12 <div></div>
Cuyamaca College	10 <div></div>
San Diego City College	5 <div></div>
Southwestern College	2 <div></div>
Palomar College	1 <div></div>

Appendix A

Astronomers (SOC 19-2011):

Observe, research, and interpret astronomical phenomena to increase basic knowledge or apply such information to practical problems.

Sample of Reported Job Titles:

Astrophysicist
Astronomer
Scientist
Research Scientist
Data Scientist
Theoretical Astronomer
Stellar Astronomer
Solar Astronomer
Radio Astronomer
Postdoctoral Scientist (Postdoc Scientist)

Related O*NET Occupation:

Astronomers (19-2011.00)

Appendix B - 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.