



6 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

6 Occupations

17-2199	Engineers, All Other	17-2072	Electronics Engineers, Except Computer
17-2071	Electrical Engineers	11-9041	Architectural and Engineering Managers
17-2141	Mechanical Engineers	17-2011	Aerospace Engineers

1 MSA

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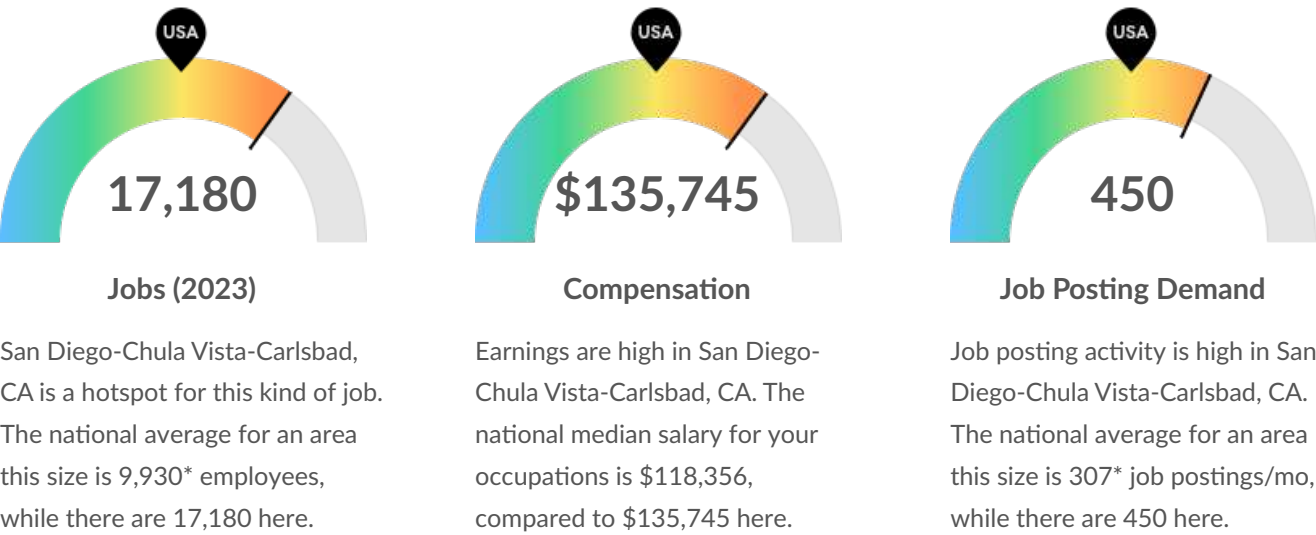
Class of Worker

QCEW Employees

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

Executive Summary

Aggressive Job Posting Demand Over a Deep Supply of Regional Jobs

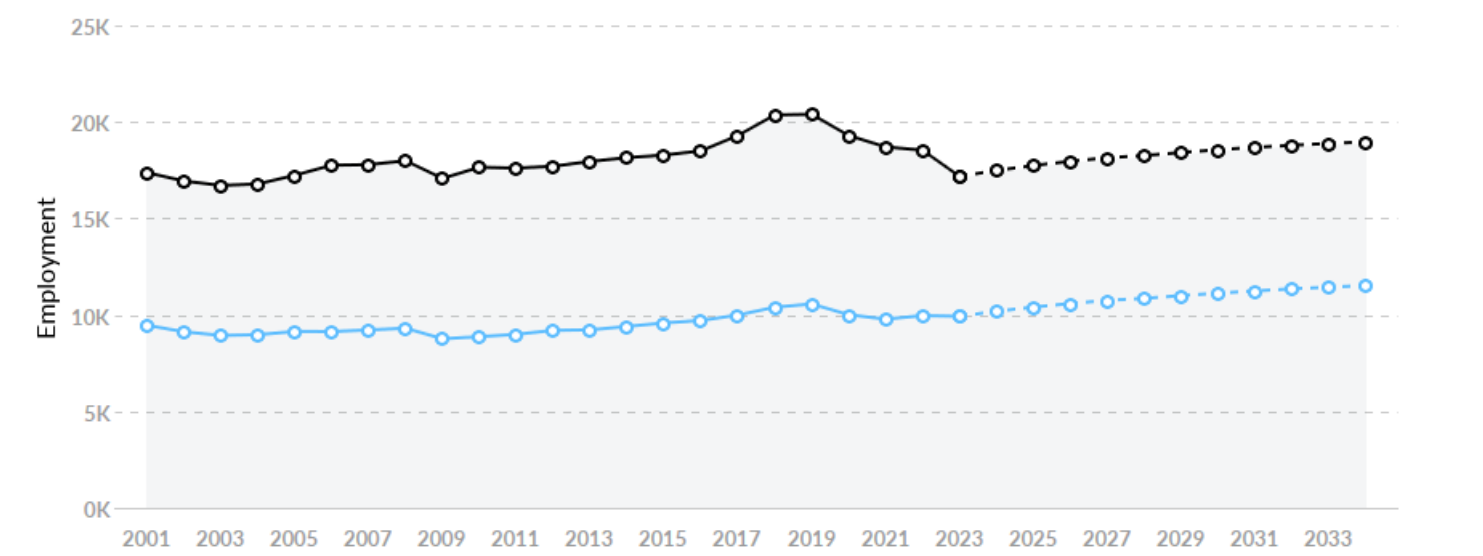


*National average values are derived by taking the national value for your occupations and scaling it down to account for the difference in overall workforce size between the nation and San Diego-Chula Vista-Carlsbad, CA. In other words, the values represent the national average adjusted for region size.

Jobs

Regional Employment Is Higher Than the National Average

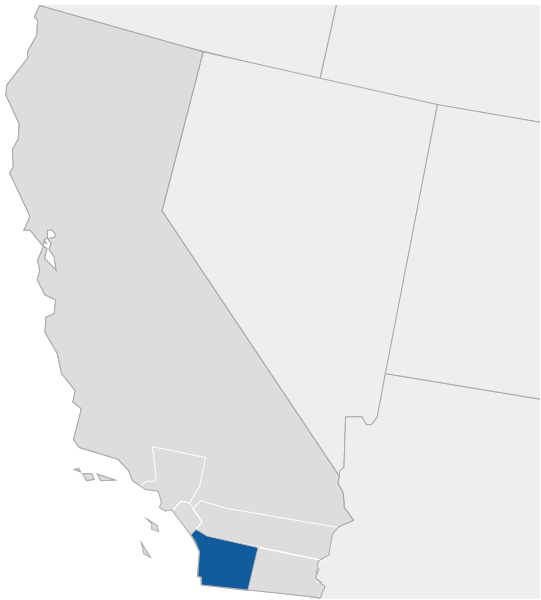
An average area of this size typically has 9,930* jobs, while there are 17,180 here. This higher than average supply of jobs may make it easier for workers in this field to find employment in your area.



	Region	2023 Jobs	2024 Jobs	Change	% Change
●	San Diego-Chula Vista-Carlsbad, CA	17,180	17,484	304	1.8%
●	National Average	9,930	10,187	257	2.6%

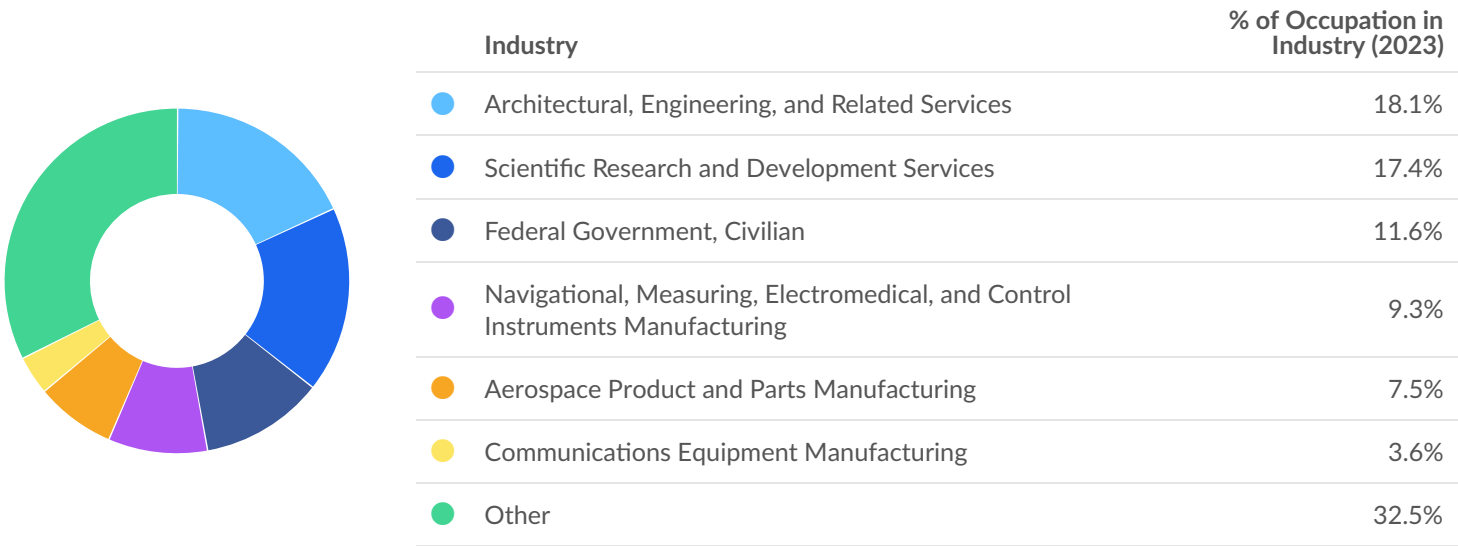
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Regional Breakdown



County	2023 Jobs
San Diego County, CA	17,180

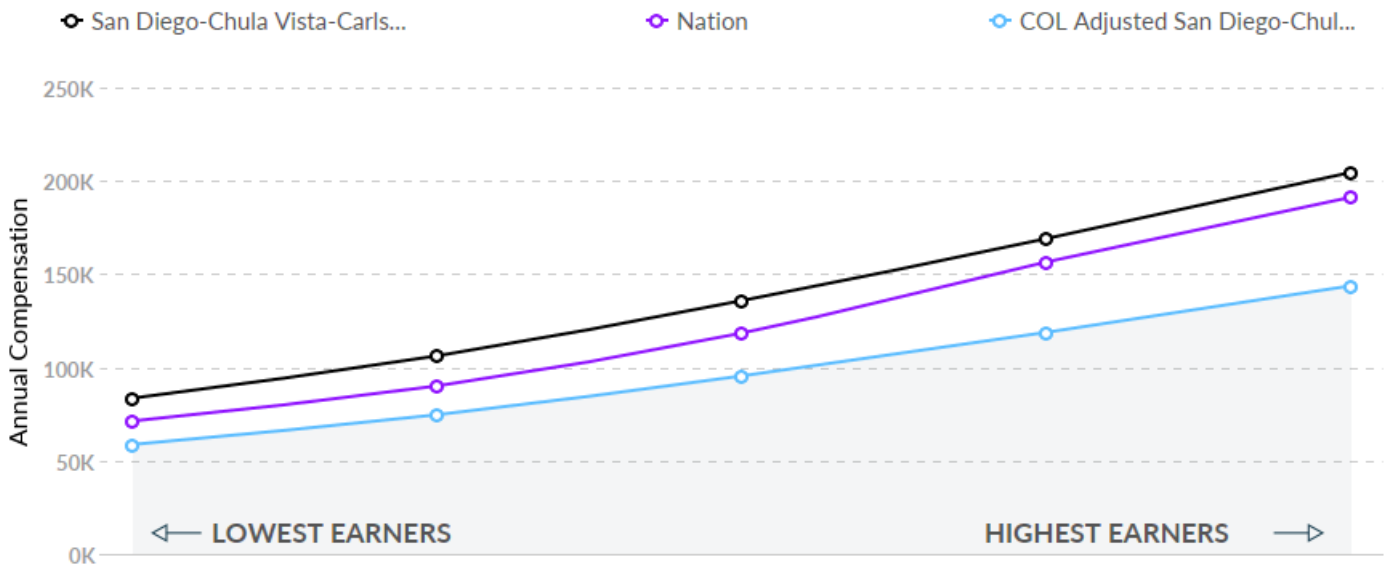
Most Jobs are Found in the Architectural, Engineering, and Related Services Industry Sector



Compensation

Regional Compensation Is 15% Higher Than National Compensation

For your occupations, the 2023 median wage in San Diego-Chula Vista-Carlsbad, CA is \$135,745, while the national median wage is \$118,356.



Job Posting Activity



8,106 Unique Job Postings

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



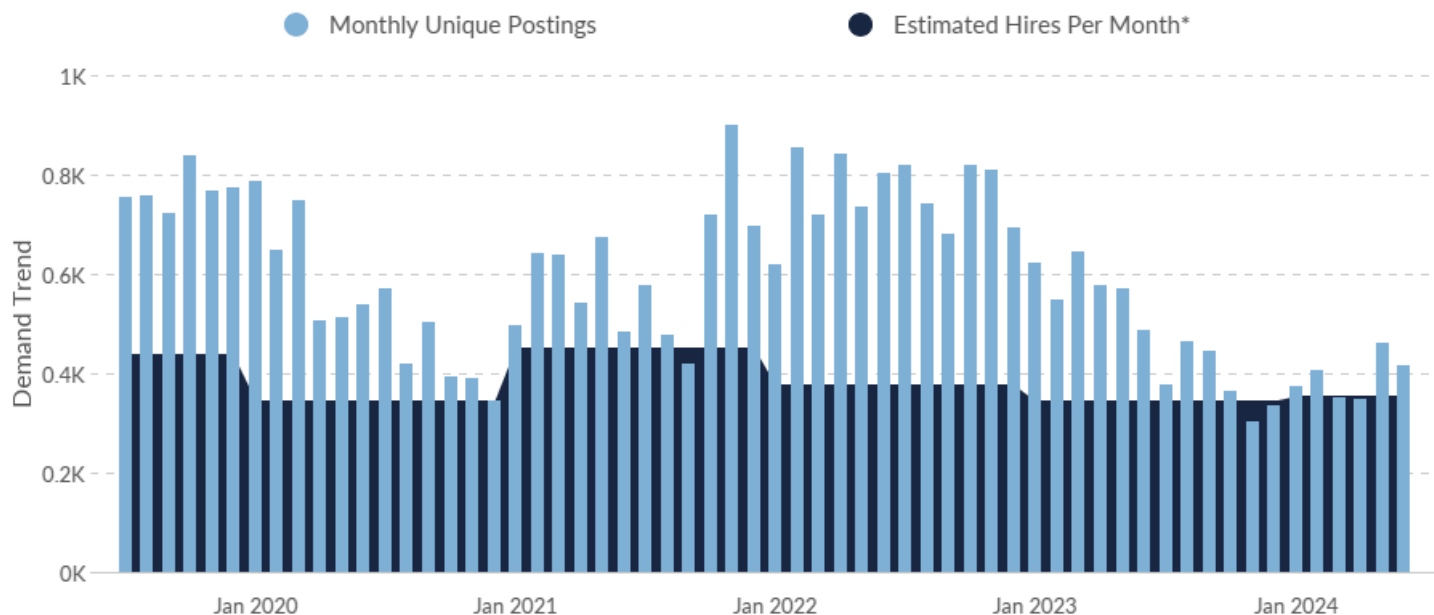
1,568 Employers Competing

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



28 Day Median Duration

Posting duration is the same as what's typical in the region.



Occupation	Avg Monthly Postings (Jan 2023 - Jun 2024)	Avg Monthly Hires (Jan 2023 - Jun 2024)
Mechanical Engineers	144	74
Electrical Engineers	103	50
Architectural and Engineering Managers	100	79
Electronics Engineers, Except Computer	61	47
Aerospace Engineers	21	19
Engineers, All Other	21	79

*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.

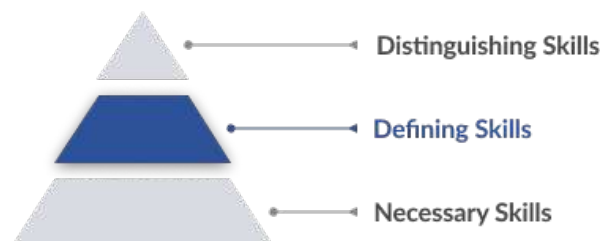
Top Companies		Unique Postings	Top Job Titles		Unique Postings
General Atomics	543	<div></div>	Electrical Engineers	576	<div></div>
Apple	385	<div></div>	Mechanical Engineers	417	<div></div>
Northrop Grumman	337	<div></div>	Field Service Engineers	142	<div></div>
Leidos	241	<div></div>	Project Engineers	113	<div></div>
Actalent	204	<div></div>	Engineering Managers	102	<div></div>
Qualcomm	174	<div></div>	Directors of Engineering	99	<div></div>
L3Harris Technologies	171	<div></div>	Chief Engineers	93	<div></div>
ASML	109	<div></div>	Maintenance Engineers	93	<div></div>
Shield Ai	77	<div></div>	Signal Processing Engineers	86	<div></div>
GPAC	75	<div></div>	Principal Electrical Engineers	82	<div></div>

Top Distinguishing Skills by Demand

Not enough data to display Distinguishing Skills for this occupation.

Top Defining Skills by Demand

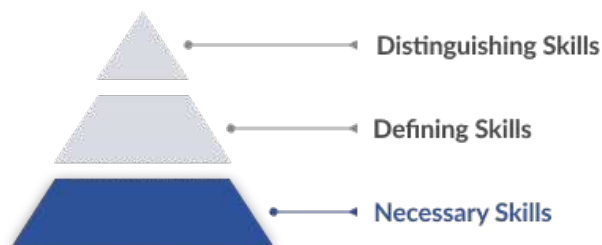
An occupation's Defining Skills represent the day-to-day tasks and responsibilities of the job. An employee needs these skills to qualify for and perform successfully in this occupation.



Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
Electrical Engineering	✓	2,398	+21.2%	Rapidly Growing
Project Management	✗	1,925	+19.8%	Rapidly Growing
Mechanical Engineering	✗	1,657	+21.2%	Rapidly Growing
Systems Engineering	✗	881	+20.9%	Rapidly Growing
Engineering Design Process	✗	776	+17.6%	Growing
Computer-Aided Design	✗	745	+17.2%	Growing
Radio Frequency	✗	703	+14.6%	Growing
SolidWorks (CAD)	✗	671	+24.1%	Rapidly Growing
AutoCAD	✗	665	+16.9%	Growing
Electronics	✗	649	+16.9%	Growing

Top Necessary Skills by Demand

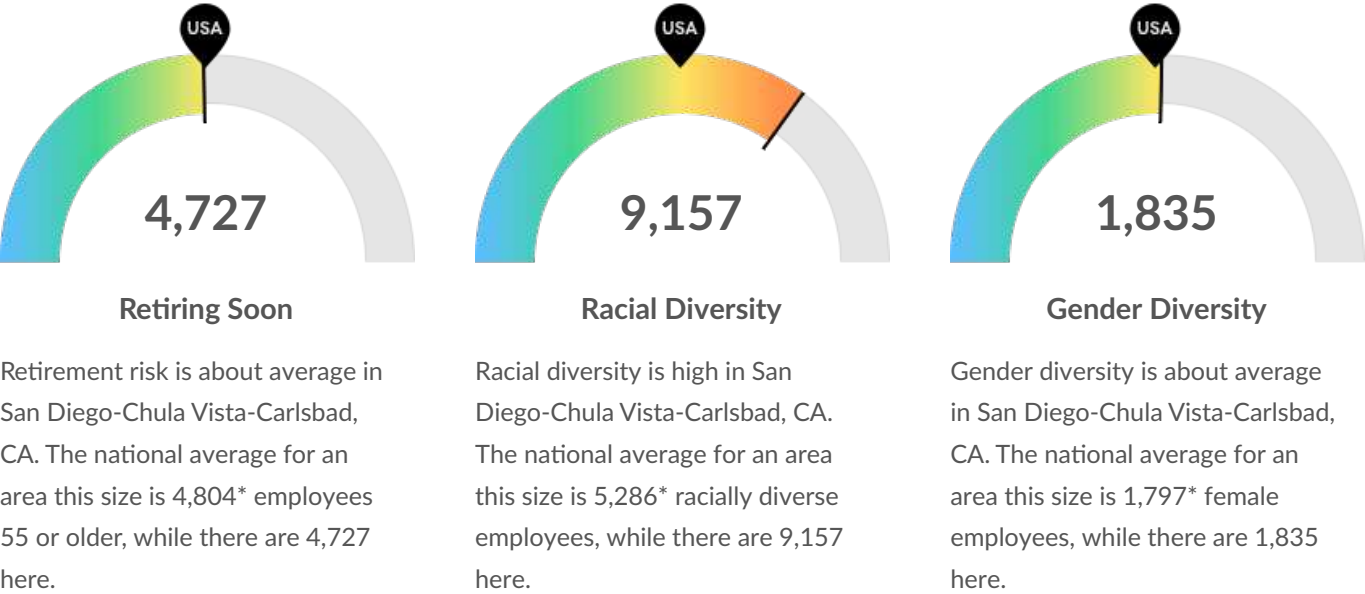
An occupation's Necessary Skills are the specialized skills required for that job and relevant across other similar jobs. An employee needs these skills as building blocks to perform the more complex Defining Skills.



Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
Electrical Engineering	✓	2,398	+21.2%	Rapidly Growing
Project Management	✗	1,925	+19.8%	Rapidly Growing
Mechanical Engineering	✗	1,657	+21.2%	Rapidly Growing
MATLAB	✗	971	+16.0%	Growing
New Product Development	✗	957	+24.1%	Rapidly Growing
Python (Programming Language)	✗	928	+24.5%	Rapidly Growing
Systems Engineering	✗	881	+20.9%	Rapidly Growing
Simulations	✗	881	+10.5%	Growing
Security Clearance	✗	821	+1.5%	Lagging
Engineering Design Process	✗	776	+17.6%	Growing

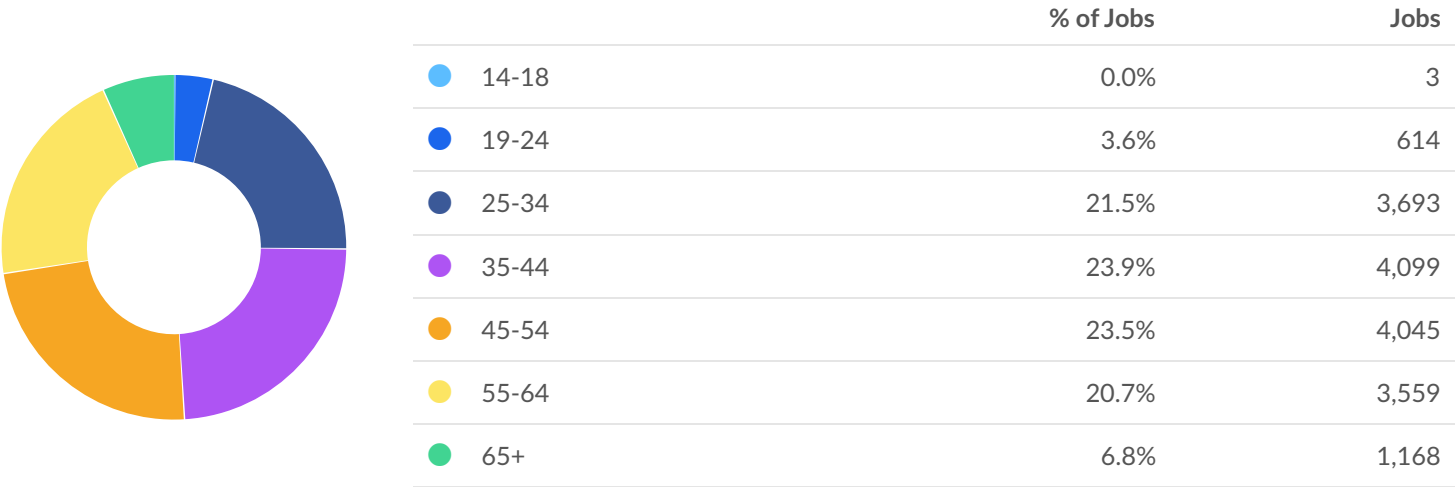
Demographics

Retirement Risk Is About Average, While Overall Diversity Is High

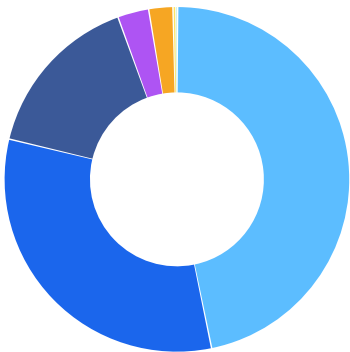


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Occupation Age Breakdown

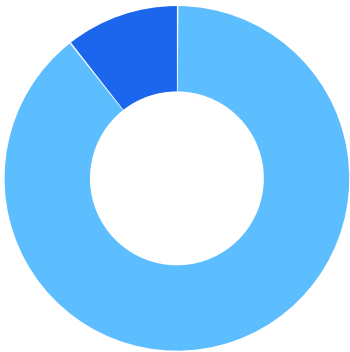


Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
White	46.7%	8,023
Asian	32.0%	5,495
Hispanic or Latino	15.7%	2,697
Two or More Races	2.9%	502
Black or African American	2.3%	388
Native Hawaiian or Other Pacific Islander	0.3%	47
American Indian or Alaska Native	0.2%	28

Occupation Gender Breakdown



	% of Jobs	Jobs
Males	89.3%	15,345
Females	10.7%	1,835

Occupational Programs



39 Programs

Of the programs that can train for this job, 39 have produced completions in the last 5 years.



4,013 Completions (2023)

The completions from all regional institutions for all degree types.



1,266 Openings (2023)

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

CIP Code	Top Programs	Completions (2023)	
14.1901	Mechanical Engineering	621	<div></div>
14.1001	Electrical and Electronics Engineering	521	<div></div>
14.0901	Computer Engineering, General	385	<div></div>
40.0501	Chemistry, General	343	<div></div>
14.0501	Bioengineering and Biomedical Engineering	306	<div></div>
14.0201	Aerospace, Aeronautical, and Astronautical/Space Engineer...	220	<div></div>
26.0202	Biochemistry	198	<div></div>
14.0803	Structural Engineering	166	<div></div>
14.0801	Civil Engineering, General	160	<div></div>
52.0203	Logistics, Materials, and Supply Chain Management	143	<div></div>

Top Schools	Completions (2023)	
University of California-San Diego	2,257	<div></div>
San Diego State University	967	<div></div>
University of San Diego	233	<div></div>
Ashford University	152	<div></div>
California State University-San Marcos	132	<div></div>
Newschool of Architecture and Design	68	<div></div>
San Diego Miramar College	52	<div></div>
National University	49	<div></div>
Point Loma Nazarene University	27	<div></div>
Southwestern College	17	<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.