



# 3 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

## 3 Occupations

51-8031    Water and Wastewater Treatment Plant  
and System Operators

51-8099    Plant and System Operators, All Other

53-7072    Pump Operators, Except Wellhead  
Pumpers

## 1 MSA

41740    San Diego-Chula Vista-Carlsbad, CA

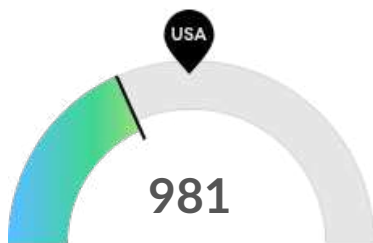
## Class of Worker

QCEW Employees

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

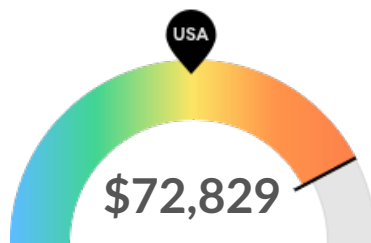
## Executive Summary

### Light Job Posting Demand Over a Thin Supply of Regional Jobs



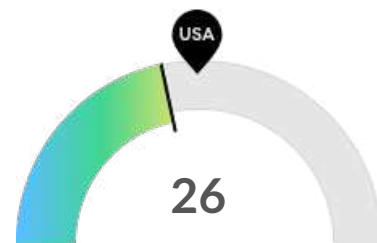
**Jobs (2023)**

San Diego-Chula Vista-Carlsbad, CA is not a hotspot for this kind of job. The national average for an area this size is 1,492\* employees, while there are 981 here.



**Compensation**

Earnings are high in San Diego-Chula Vista-Carlsbad, CA. The national median salary for your occupations is \$55,083, compared to \$72,829 here.



**Job Posting Demand**

Job posting activity is low in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 32\* job postings/mo, while there are 26 here.

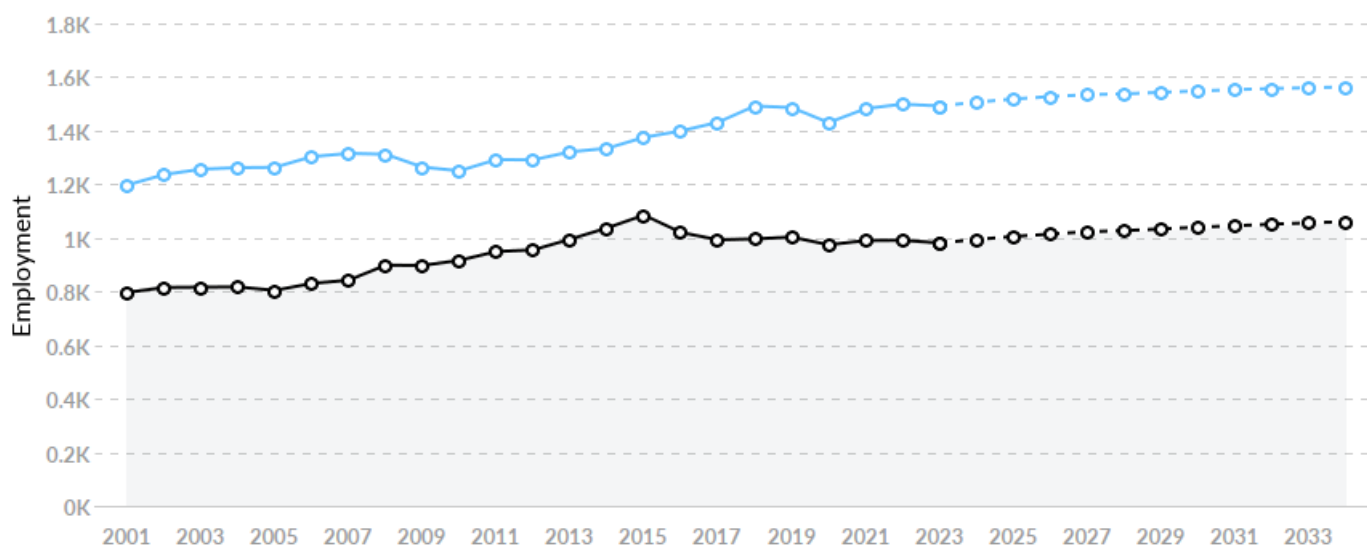
\*National average values are derived by taking the national value for your occupations and scaling it down to account for the difference in overall workforce size between the nation and San Diego-Chula Vista-Carlsbad, CA. In other words, the values represent the national average adjusted for region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



# Jobs

## Regional Employment Is Lower Than the National Average

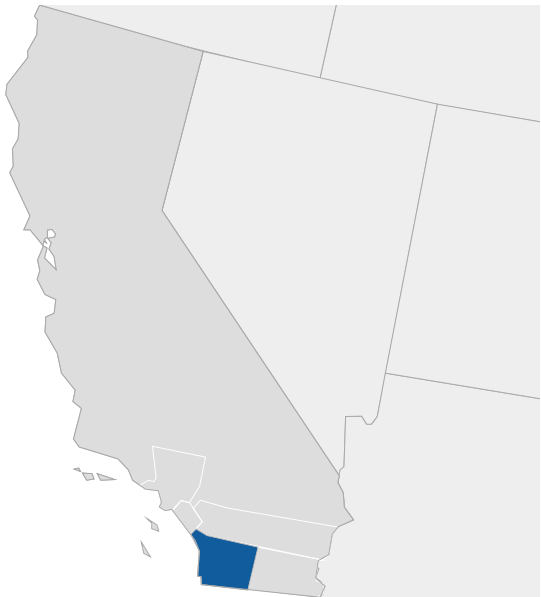
An average area of this size typically has 1,492\* jobs, while there are 981 here. This lower than average supply of jobs may make it more difficult for workers in this field to find employment in your area.



	Region	2023 Jobs	2024 Jobs	Change	% Change
●	San Diego-Chula Vista-Carlsbad, CA	981	994	13	1.3%
●	National Average	1,492	1,506	15	1.0%

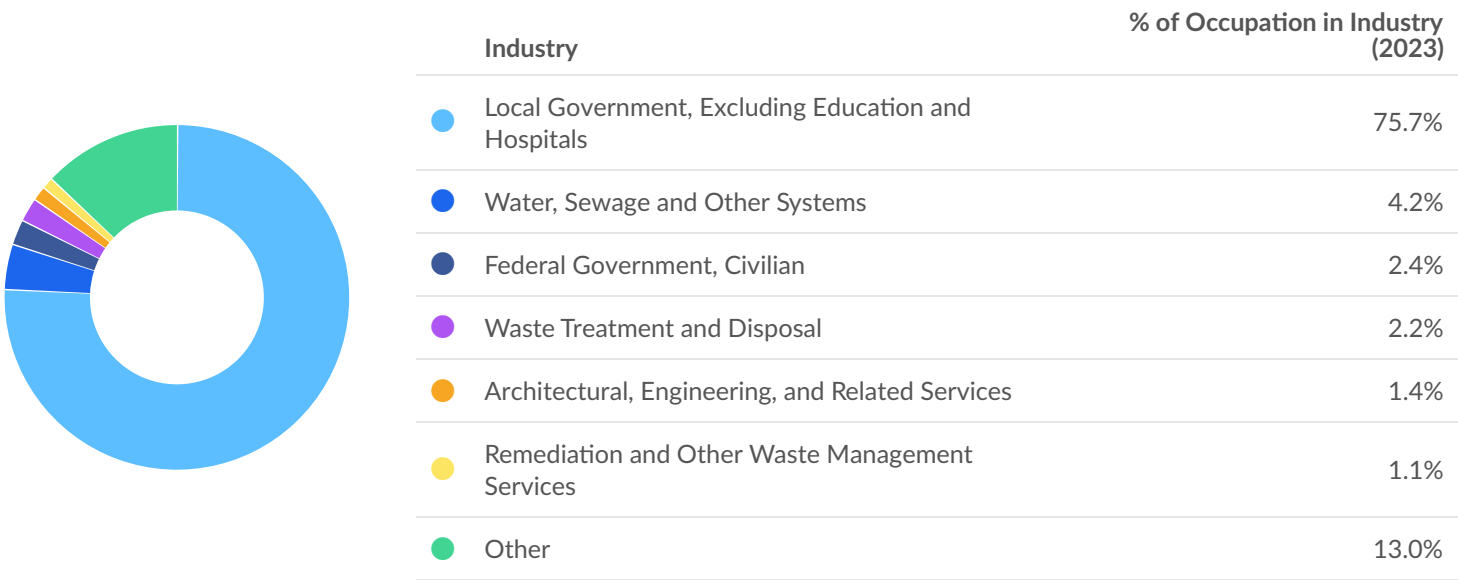
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## Regional Breakdown



County	2023 Jobs
San Diego County, CA	981

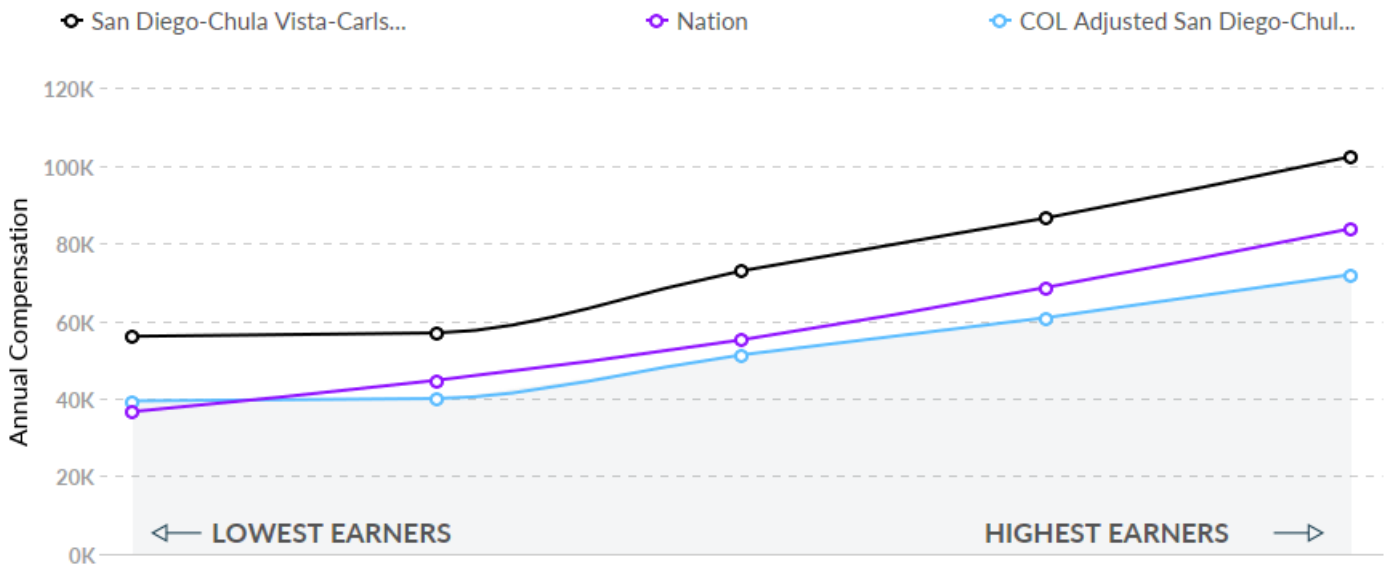
## Most Jobs are Found in the Local Government, Excluding Education and Hospitals Industry Sector



## Compensation

### Regional Compensation Is 32% Higher Than National Compensation

For your occupations, the 2023 median wage in San Diego-Chula Vista-Carlsbad, CA is \$72,829, while the national median wage is \$55,083.





# Job Posting Activity



## 443 Unique Job Postings

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



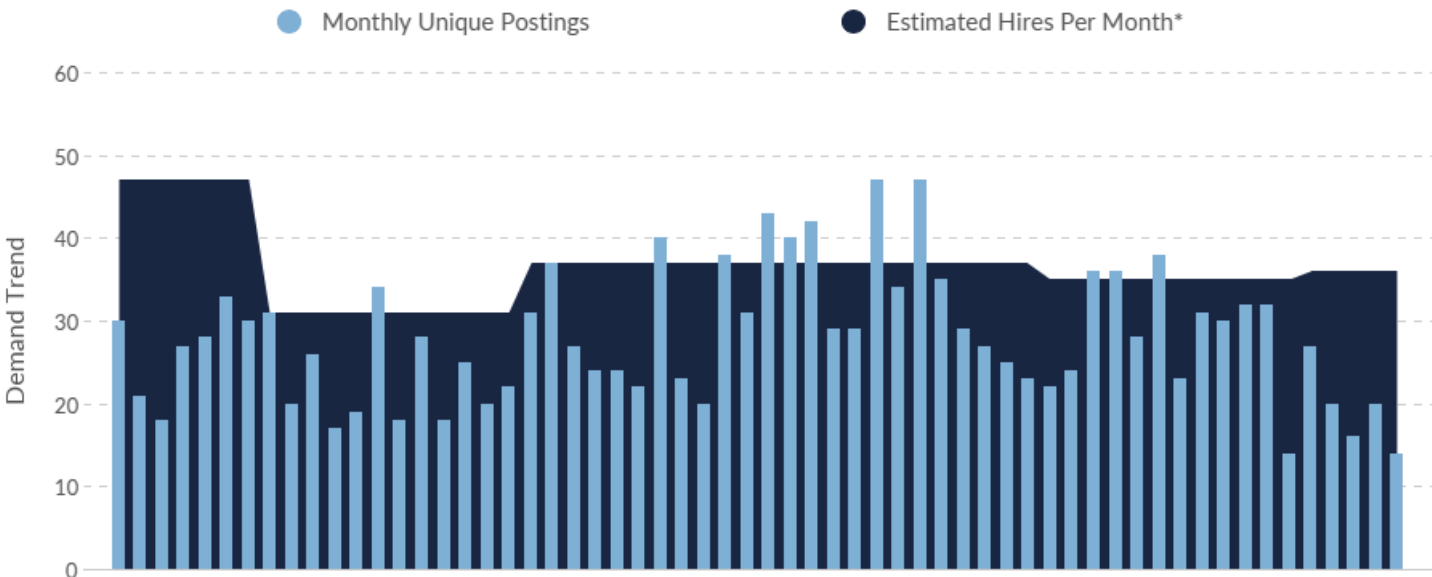
## 173 Employers Competing

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



## 30 Day Median Duration

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



Occupation	Avg Monthly Postings (Jan 2023 - May 2024)	Avg Monthly Hires (Jan 2023 - May 2024)
Water and Wastewater Treatment Plant and System Operators	17	27
Plant and System Operators, All Other	7	3
Pump Operators, Except Wellhead Pumps	2	5

\*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.

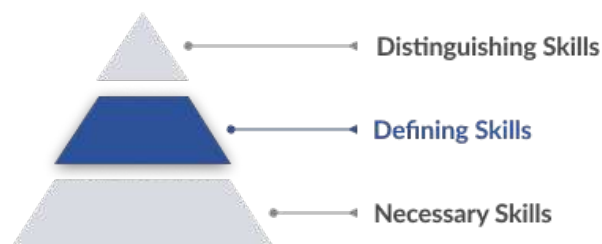
Top Companies	Unique Postings	Top Job Titles	Unique Postings
City Of San Diego	49 <div></div>	Wastewater Operators	28 <div></div>
Transdev	31 <div></div>	Plant Operators	24 <div></div>
Safeway	11 <div></div>	Utility Workers	23 <div></div>
Hollandia Dairy	10 <div></div>	Wastewater Plant Operators	22 <div></div>
City Of Escondido	9 <div></div>	Wastewater Treatment Operators	12 <div></div>
University of California	8 <div></div>	Water Treatment Operators	11 <div></div>
Airswift	7 <div></div>	Water/Wastewater Operators	11 <div></div>
Google	7 <div></div>	Directors of Public Utilities	10 <div></div>
County Of San Diego	6 <div></div>	Pumpers	9 <div></div>
Opal Fuels	6 <div></div>	Water Utility Workers	9 <div></div>

## Top Distinguishing Skills by Demand

Not enough data to display Distinguishing Skills for this occupation.

## Top Defining Skills by Demand

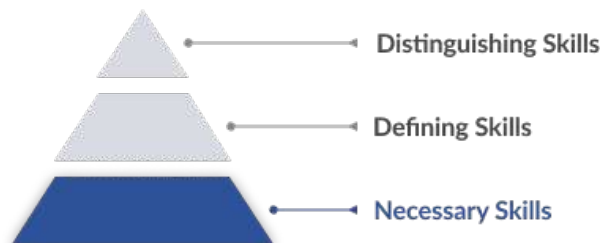
An occupation's Defining Skills represent the day-to-day tasks and responsibilities of the job. An employee needs these skills to qualify for and perform successfully in this occupation.



Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
Wastewater	×	177	+17.9%	Growing
Valid Driver's License	×	128	+7.5%	Stable
Valves (Piping)	×	115	+7.9%	Stable
Sewage Treatments	×	105	+5.3%	Stable
Water Treatment	✓	81	+8.1%	Stable
Wastewater Treatment Plant	×	78	+0.9%	Lagging
Water Distribution	×	55	+5.0%	Stable
Pump Stations	×	51	+31.1%	Rapidly Growing
Wastewater Operator Certification	×	20	+8.6%	Growing

## Top Necessary Skills by Demand

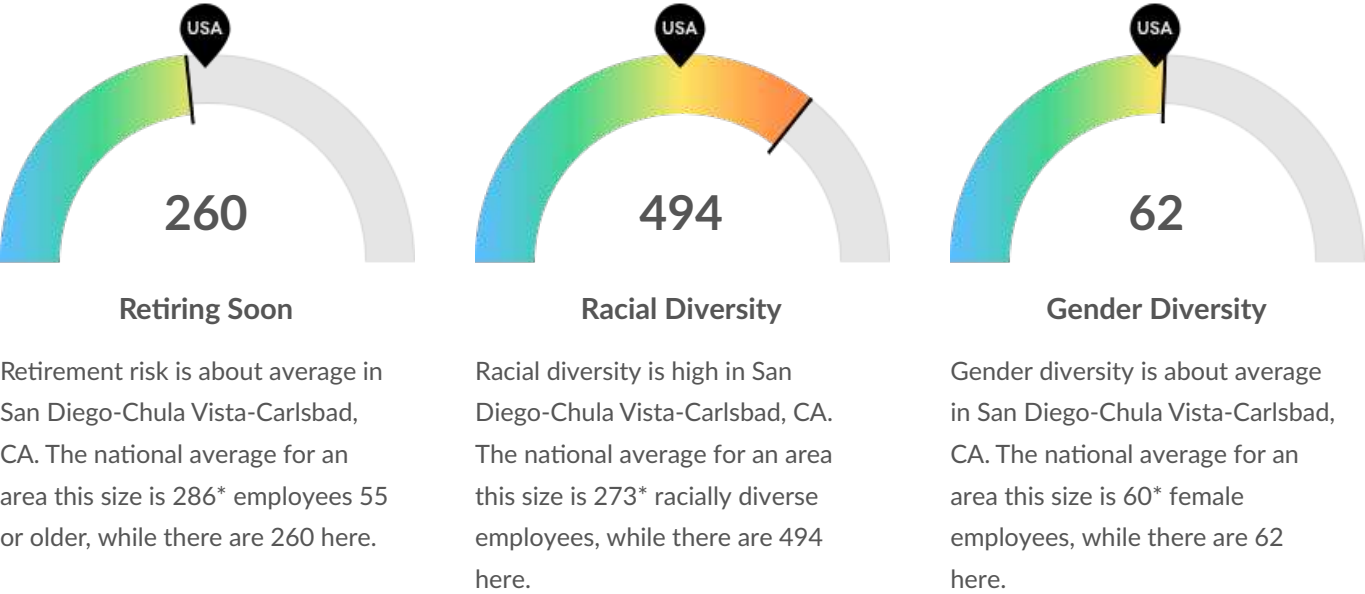
An occupation's Necessary Skills are the specialized skills required for that job and relevant across other similar jobs. An employee needs these skills as building blocks to perform the more complex Defining Skills.



Skill	Salary Boosting	Job Postings Requesting	Projected Growth	Growth Relative to Market
Valves (Piping)	×	115	+7.9%	Stable
Supervisory Control And Data Acquisition (SCADA)	×	65	+4.1%	Lagging
Power Tool Operation	×	59	+7.4%	Stable
Machinery	×	56	+8.0%	Stable
Biology	×	50	+25.7%	Rapidly Growing
Chemistry	×	43	+18.2%	Growing
Hand Tools	×	39	+6.2%	Stable
Construction	×	37	+10.5%	Growing
Forklift Truck	×	36	+5.5%	Stable
Boilers	×	35	+8.9%	Growing

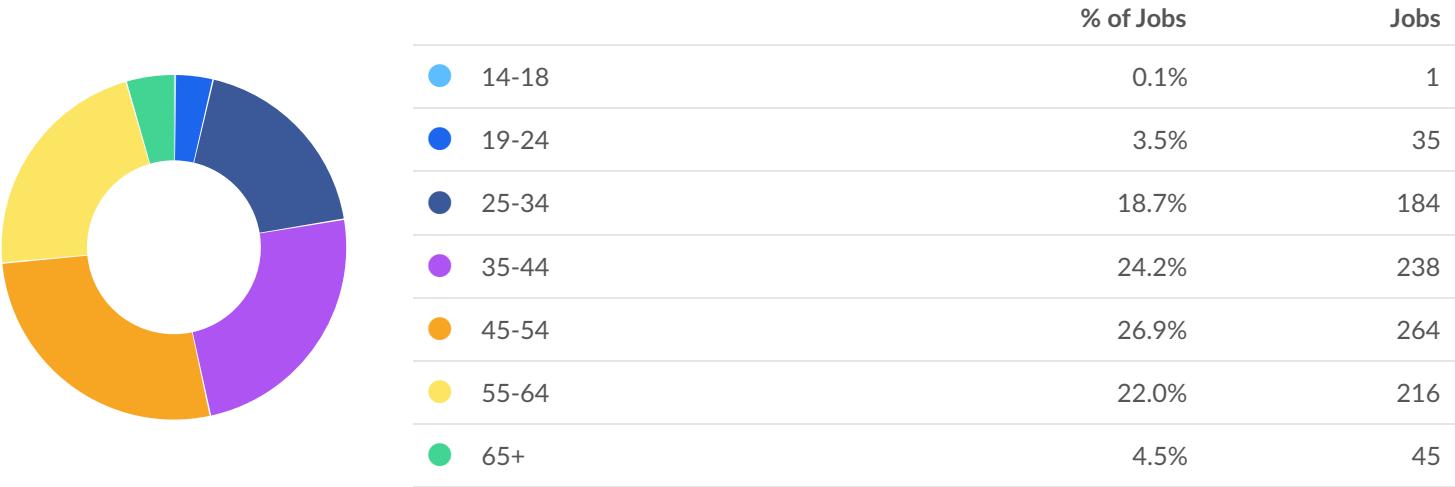
# Demographics

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

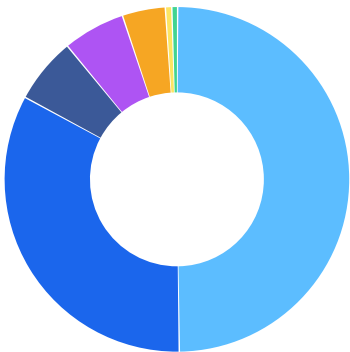


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## Occupation Age Breakdown

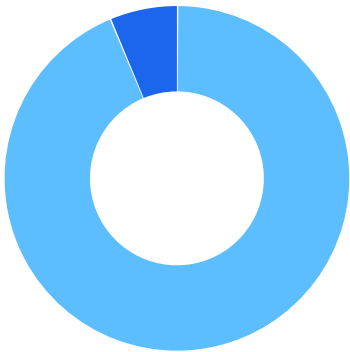


### Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
White	49.7%	488
Hispanic or Latino	33.1%	325
Black or African American	6.2%	61
Asian	5.8%	57
Two or More Races	4.0%	40
Native Hawaiian or Other Pacific Islander	0.6%	6
American Indian or Alaska Native	0.5%	5

### Occupation Gender Breakdown



	% of Jobs	Jobs
Males	93.6%	919
Females	6.4%	62

# Occupational Programs



### 3 Programs

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



### 75 Completions (2023)

The completions from all regional institutions for all degree types.



### 104 Openings (2023)

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

CIP Code	Top Programs	Completions (2023)
15.0506	Water Quality and Wastewater Treatment Management and...	37 <div></div>
26.1201	Biotechnology	35 <div></div>
47.0614	Alternative Fuel Vehicle Technology/Technician	3 <div></div>

Top Schools	Completions (2023)
California State University-San Marcos	35 <div></div>
Palomar College	24 <div></div>
Cuyamaca College	13 <div></div>
San Diego Miramar College	3 <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.