

A man wearing safety glasses and yellow earplugs is holding a glass of water up to inspect it. He is in a water treatment facility, with a sign that says "WATER FEED" visible in the background. The image is overlaid with a semi-transparent dark grey box containing the title text.

Water and Wastewater Treatment Plant and System Operators in San Diego-Chula Vista-Carlsbad, CA

Water and Wastewater Treatment Plant and System Operators (SOC 51-8031):

Operate or control an entire process or system of machines, often through the use of control boards, to transfer or treat water or wastewater.

Sample of Reported Job Titles:

Wastewater Treatment Operator
Water Treatment Plant Operator
Wastewater Treatment Plant Operator
Water Plant Operator
Wastewater Operator (WW Operator)
Plant Operator
Water Treatment Operator
Water Operator
Wastewater Plant Operator
Water System Operator

Related O*NET Occupation:

Water and Wastewater Treatment Plant and System Operators (51-8031.00)

Contents

What is Emsi Data?	1
Report Parameters	2
Executive Summary	3
Jobs	4
Compensation	6
Job Posting Activity	7
Demographics	11
Occupational Programs	14

What is Emsi Data?

Emsi 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.

Emsi 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

51-8031 Water and Wastewater Treatment Plant and System ...

1 MSA

41740 San Diego-Chula Vista-Carlsbad, CA

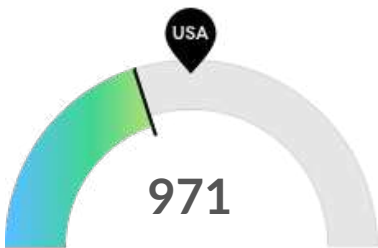
Class of Worker

QCEW Employees, Non-QCEW Employees, and Self-Employed

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

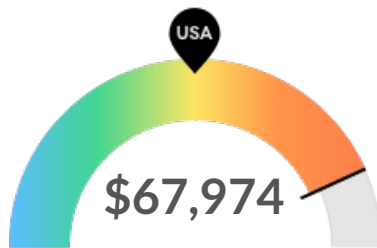
Executive Summary

Light Job Posting Demand Over a Thin Supply of Regional Jobs



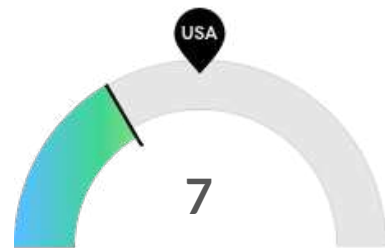
Jobs (2018)

San Diego-Chula Vista-Carlsbad, CA is not a hotspot for this kind of job. The national average for an area this size is 1,314* employees, while there are 971 here.



Compensation

Earnings are high in San Diego-Chula Vista-Carlsbad, CA. The national median salary for Water and Wastewater Treatment Plant and System Operators is \$46,779, compared to \$67,974 here.



Job Posting Demand

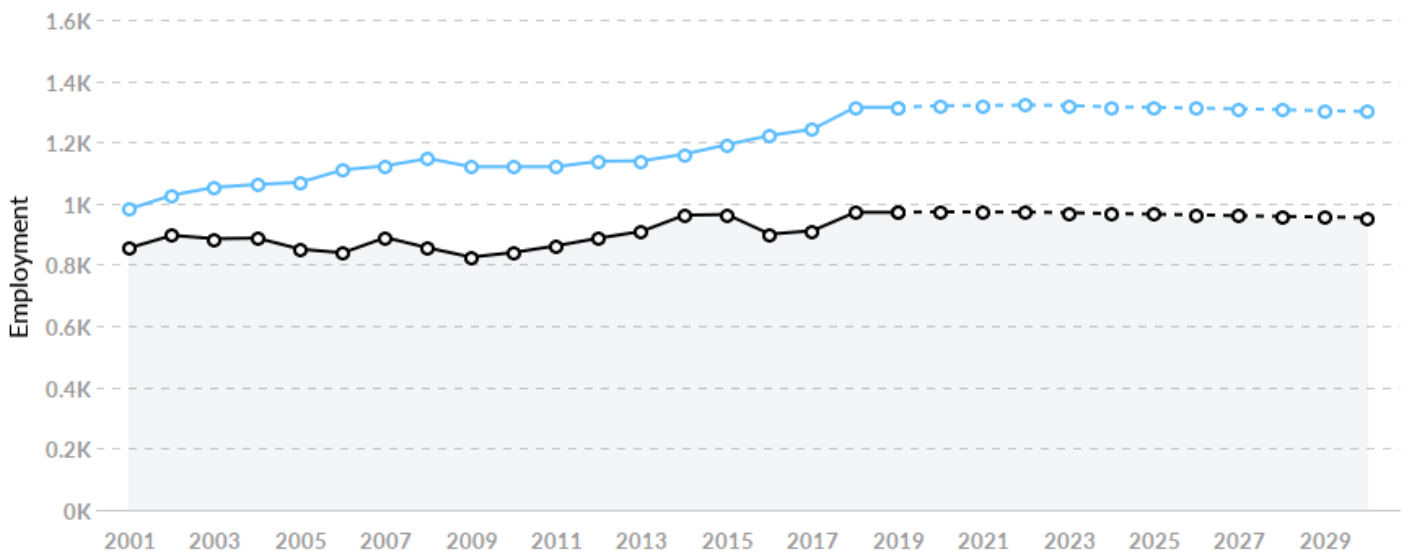
Job posting activity is low in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 12* job postings/mo, while there are 7 here.

*National average values are derived by taking the national value for Water and Wastewater Treatment Plant and System Operators 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 1,314* jobs, while there are 971 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	2018 Jobs	2028 Jobs	Change	% Change
● San Diego-Chula Vista-Carlsbad, CA	971	958	-12	-1.3%
● National Average	1,314	1,306	-8	-0.6%

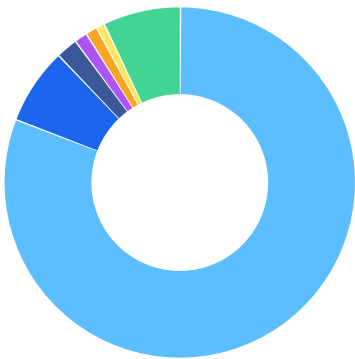
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Regional Breakdown



County	2018 Jobs
San Diego County, CA	971

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

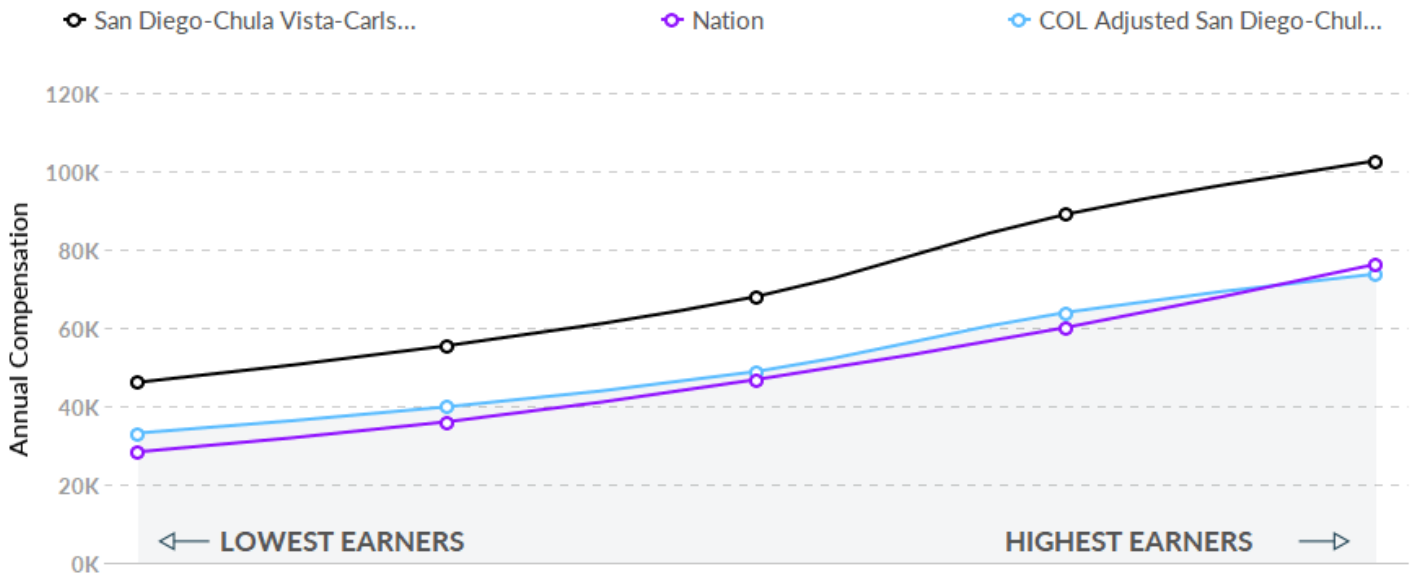


Industry	% of Occupation in Industry (2018)
Local Government, Excluding Education and Hospitals	80.8%
Federal Government, Military	7.0%
Waste Treatment and Disposal	2.0%
Water, Sewage and Other Systems	1.2%
Architectural, Engineering, and Related Services	1.1%
Federal Government, Civilian	0.8%
Other	7.1%

Compensation

Regional Compensation Is 45% Higher Than National Compensation

For Water and Wastewater Treatment Plant and System Operators, the 2018 median wage in San Diego-Chula Vista-Carlsbad, CA is \$67,974, while the national median wage is \$46,779.



Job Posting Activity



209 Unique Job Postings

The number of unique postings for this job from Jan 2018 to May 2020.



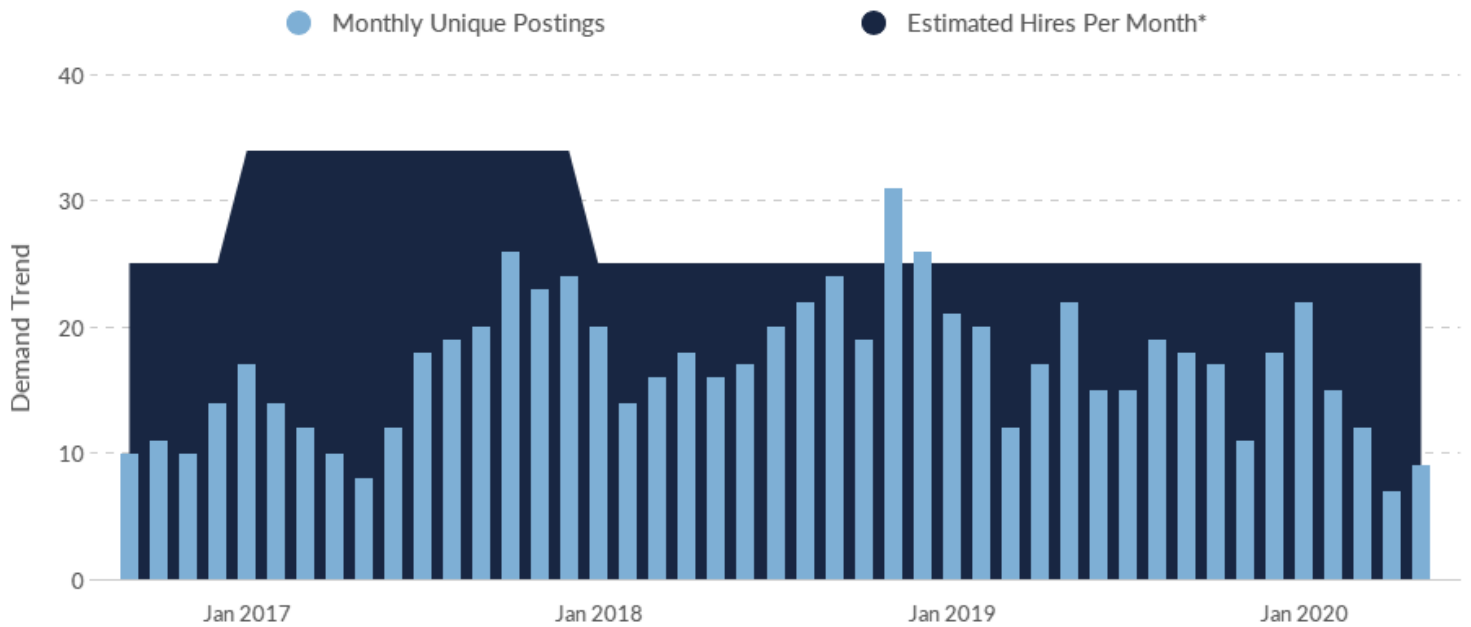
88 Employers Competing

All employers in the region who posted for this job from Jan 2018 to May 2020.













23 Day Median Duration











Posting duration is 10 days shorter than what's typical in the region.



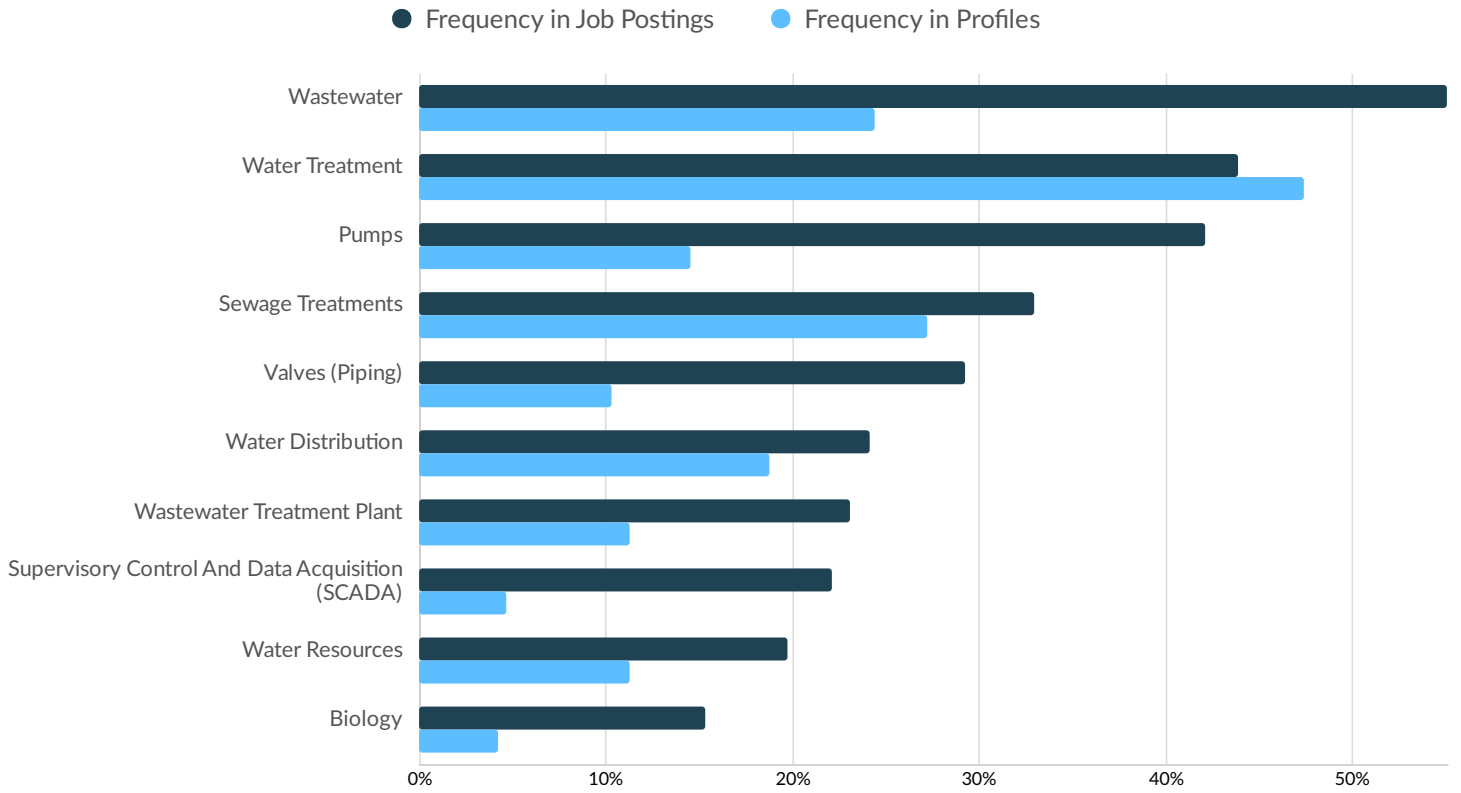
Occupation	Avg Monthly Postings (Jan 2018 - May 2020)	Avg Monthly Hires (Jan 2018 - May 2020)
Water and Wastewater Treatment Plant and System Operators	18	25

*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. Emsi hires are calculated using a combination of Emsi 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
City of Escondido	19 
Aerotek, Inc.	18 
City of San Diego	17 
Sycuan Casino	15 
City of Oceanside	7 
University of California	7 
City of Poway	6 
County of San Diego	6 
Jacobs Engineering Group Inc.	5 
San Diego County Water Author...	5 

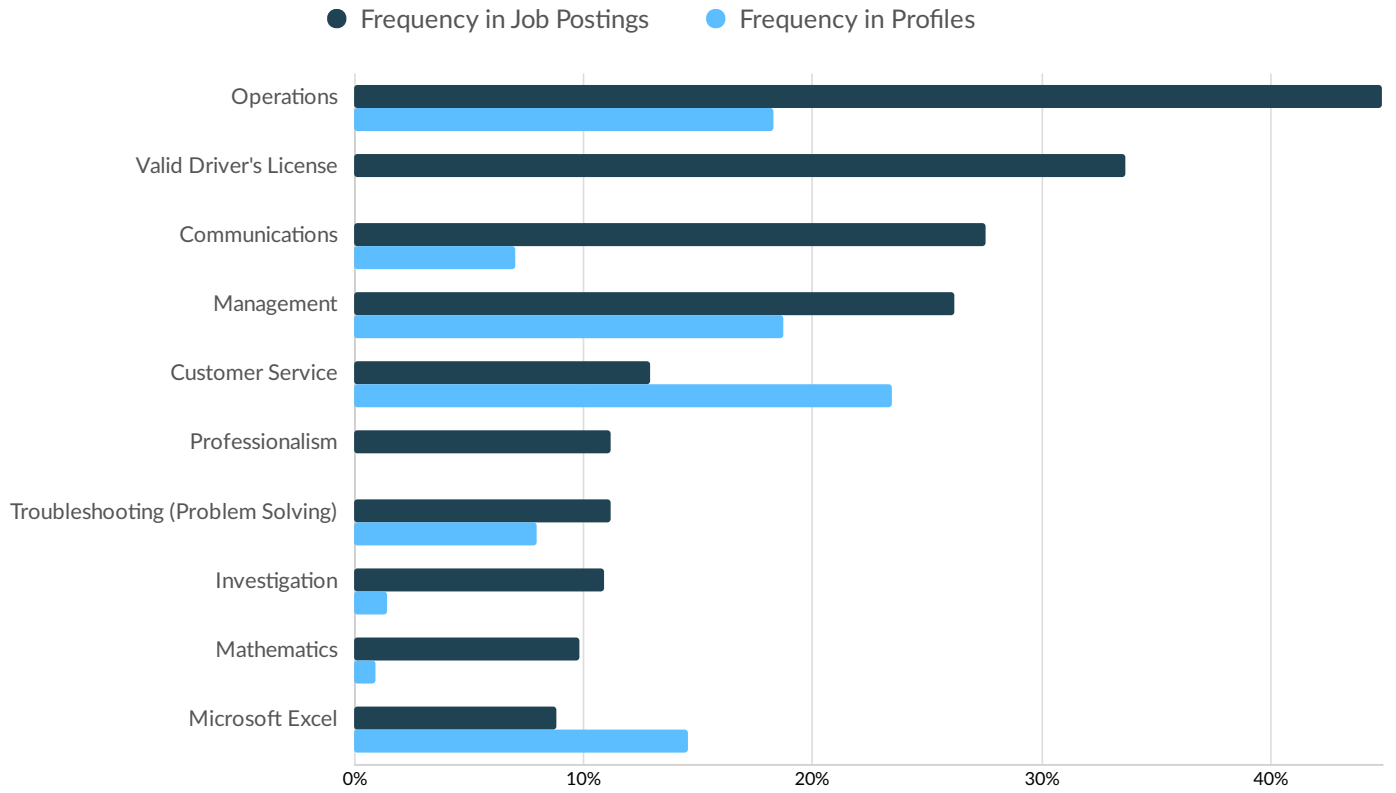
Top Job Titles	Unique Postings
Wastewater Operators	55 
Water Treatment Operators	51 
Plant Operators	23 
Area Supervisors (Production)	8 
Plant Operations Technicians	8 
Water Technicians	7 
Field Service Technicians	5 
Systems Operators (Production)	5 
Maintenance Workers	4 
Systems Technicians (Architectu...	4 

Top Hard Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Wastewater	162	55%	52	24%
Water Treatment	129	44%	101	47%
Pumps	124	42%	31	15%
Sewage Treatments	97	33%	58	27%
Valves (Piping)	86	29%	22	10%
Water Distribution	71	24%	40	19%
Wastewater Treatment Plant	68	23%	24	11%
Supervisory Control And Data Acquisition (SCADA)	65	22%	10	5%
Water Resources	58	20%	24	11%
Biology	45	15%	9	4%

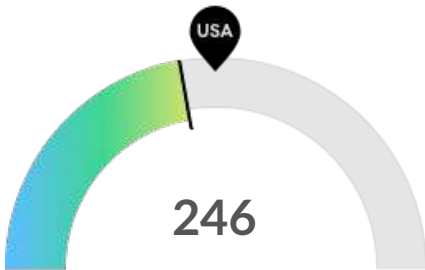
Top Common Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Operations	132	45%	39	18%
Valid Driver's License	99	34%	0	0%
Communications	81	28%	15	7%
Management	77	26%	40	19%
Customer Service	38	13%	50	23%
Professionalism	33	11%	0	0%
Troubleshooting (Problem Solving)	33	11%	17	8%
Investigation	32	11%	3	1%
Mathematics	29	10%	2	1%
Microsoft Excel	26	9%	31	15%

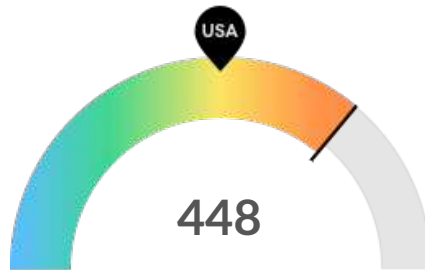
Demographics

Retirement Risk Is Low, While Overall Diversity Is High



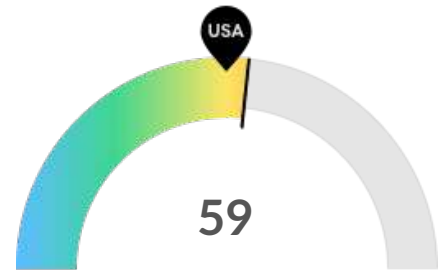
Retiring Soon

Retirement risk is low in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 290* employees 55 or older, while there are 246 here.



Racial Diversity

Racial diversity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 242* racially diverse employees, while there are 448 here.

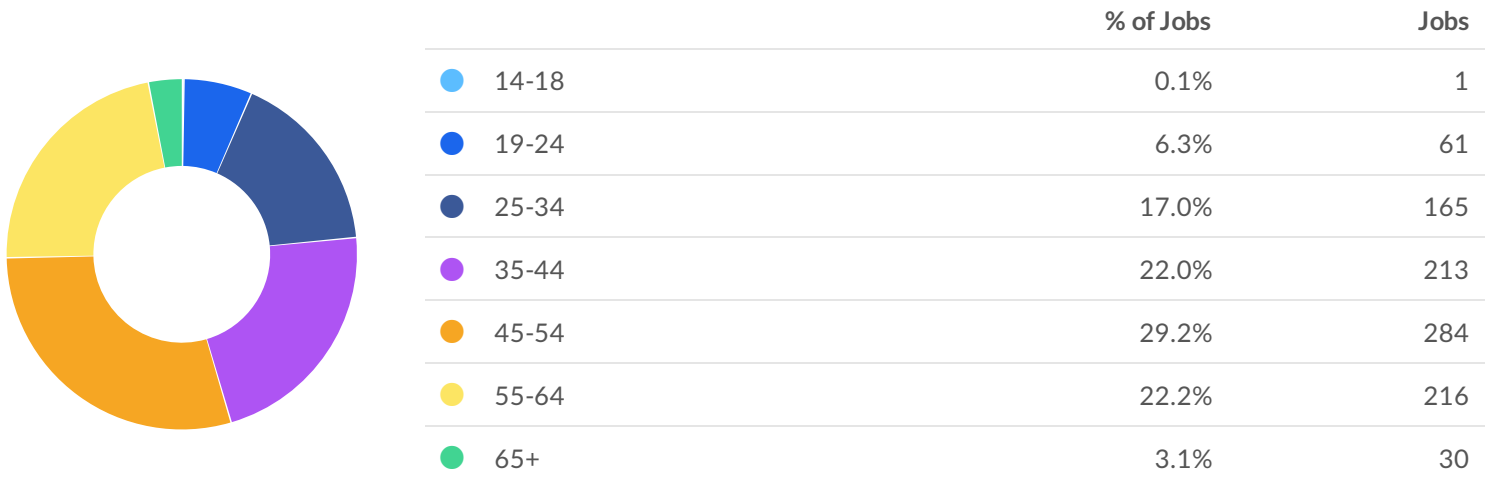


Gender Diversity

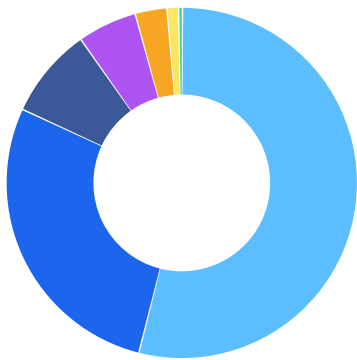
Gender diversity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 54* female employees, while there are 59 here.

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Occupation Age Breakdown

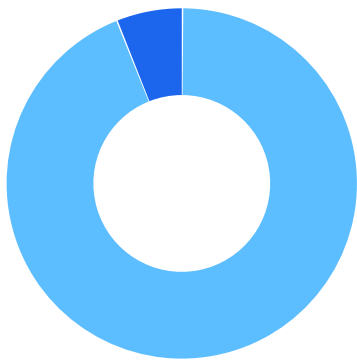


Occupation Race/Ethnicity Breakdown



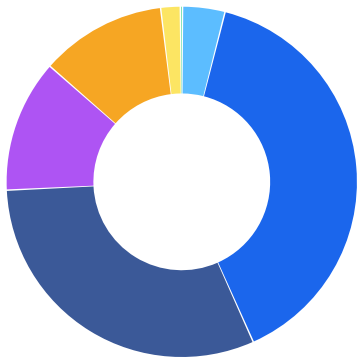
	% of Jobs	Jobs
White	53.9%	523
Hispanic or Latino	27.9%	271
Black or African American	8.4%	81
Asian	5.5%	53
Two or More Races	2.9%	28
American Indian or Alaska Native	1.1%	10
Native Hawaiian or Other Pacific Islander	0.4%	4

Occupation Gender Breakdown



	% of Jobs	Jobs
Males	93.9%	912
Females	6.1%	59

National Educational Attainment



	% of Jobs
● Less than high school diploma	3.9%
● High school diploma or equivalent	39.3%
● Some college, no degree	30.9%
● Associate's degree	12.2%
● Bachelor's degree	11.6%
● Master's degree	1.8%
● Doctoral or professional degree	0.2%

Occupational Programs



1 Program

Of the programs that can train for this job, 1 has produced completions in the last 5 years.



52 Completions (2018)

The completions from all regional institutions for all degree types.



89 Openings (2018)

The average number of openings for an occupation in the region is 288.

CIP Code	Top Programs	Completions (2018)
15.0506	Water Quality and Wastewater Treatment Management and...	52

Top Schools	Completions (2018)
Cuyamaca College	29
Palomar College	23

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 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 cost of living data is based on the Cost of Living Index published quarterly by the Council for Community and Economic Research (C2ER).

Emsi 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.