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

Contents

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 Operators
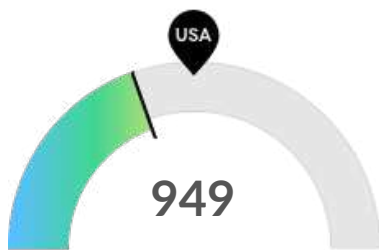
1 MSA

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.
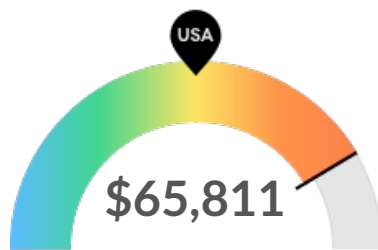
Executive Summary

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

949

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 1,324* employees, while there are 949 here.

$65,811

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 $49,088, compared to $65,811 here.

7
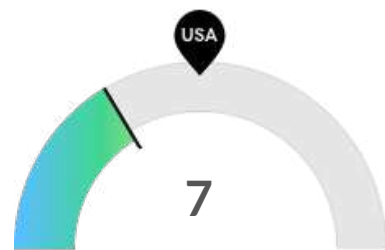
Job Posting Demand

Job posting activity is low in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 13* job postings/mo, while there are 7 here.
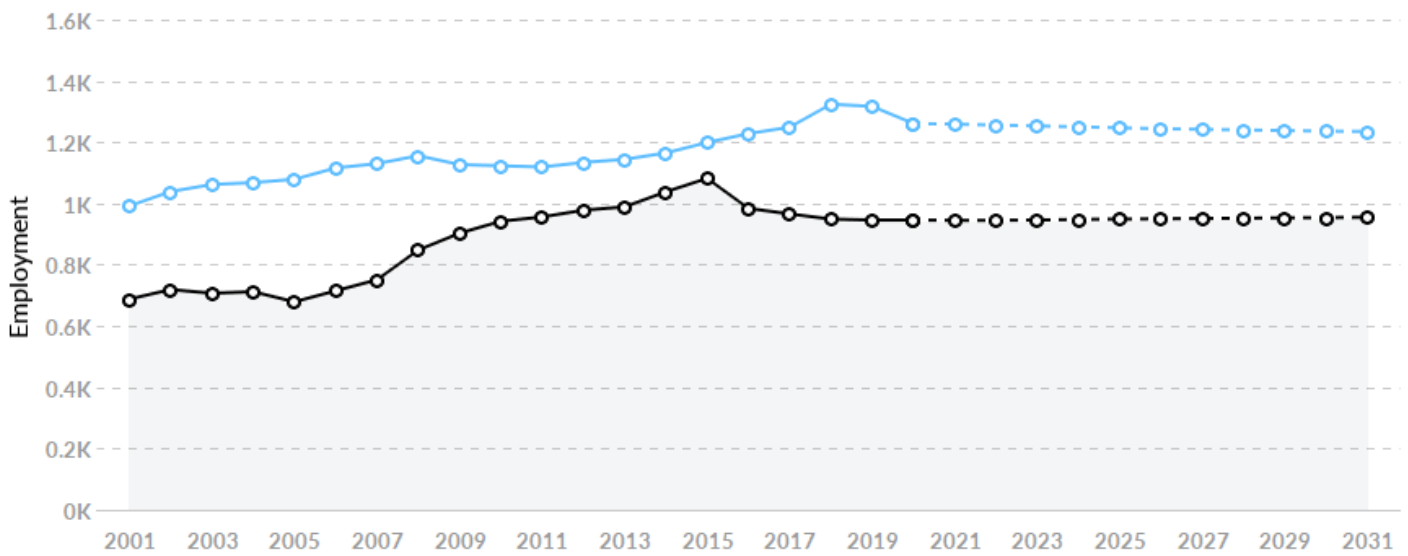
*National average values are derived by taking the national value for Water and Wastewater Treatment Plant and System Operators and scaling it down to account for the difference in overall workforce size between the nation and San Diego-Chula Vista-Carlsbad, CA. In other words, the values represent the national average adjusted for region size.

Jobs

Regional Employment Is Lower Than the National Average

An average area of this size typically has 1,324* jobs, while there are 949 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	949	952	3	0.3%
●	National Average	1,324	1,240	-84	-6.3%

*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.

Regional Breakdown

County	2018 Jobs
San Diego County, CA	949

## Most Jobs are Found in the Local Government, Excluding Education and Hospitals Industry Sector
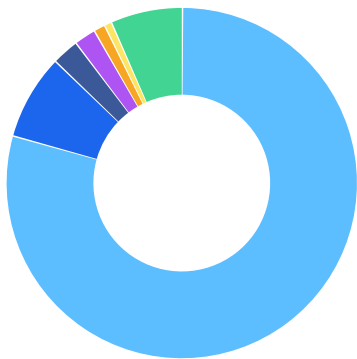
Industry	% of Occupation in Industry (2018)
Local Government, Excluding Education and Hospitals	79.3%
Federal Government, Military	7.9%
Water, Sewage and Other Systems	2.5%
Waste Treatment and Disposal	2.0%
Architectural, Engineering, and Related Services	1.1%
Federal Government, Civilian	0.7%
Other	6.6%

Compensation

Regional Compensation Is 34% Higher Than National Compensation

For Water and Wastewater Treatment Plant and System Operators, the 2020 median wage in San Diego-Chula Vista-Carlsbad, CA is $65,811, while the national median wage is $49,088.
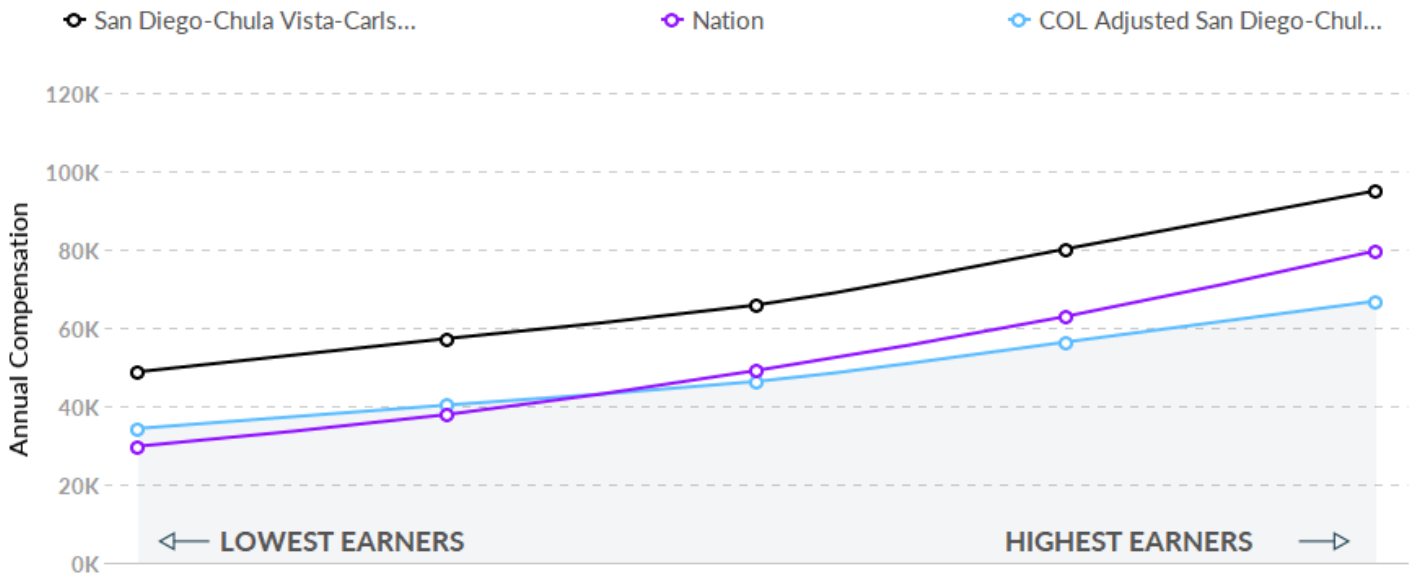
Job Posting Activity

314 Unique Job Postings

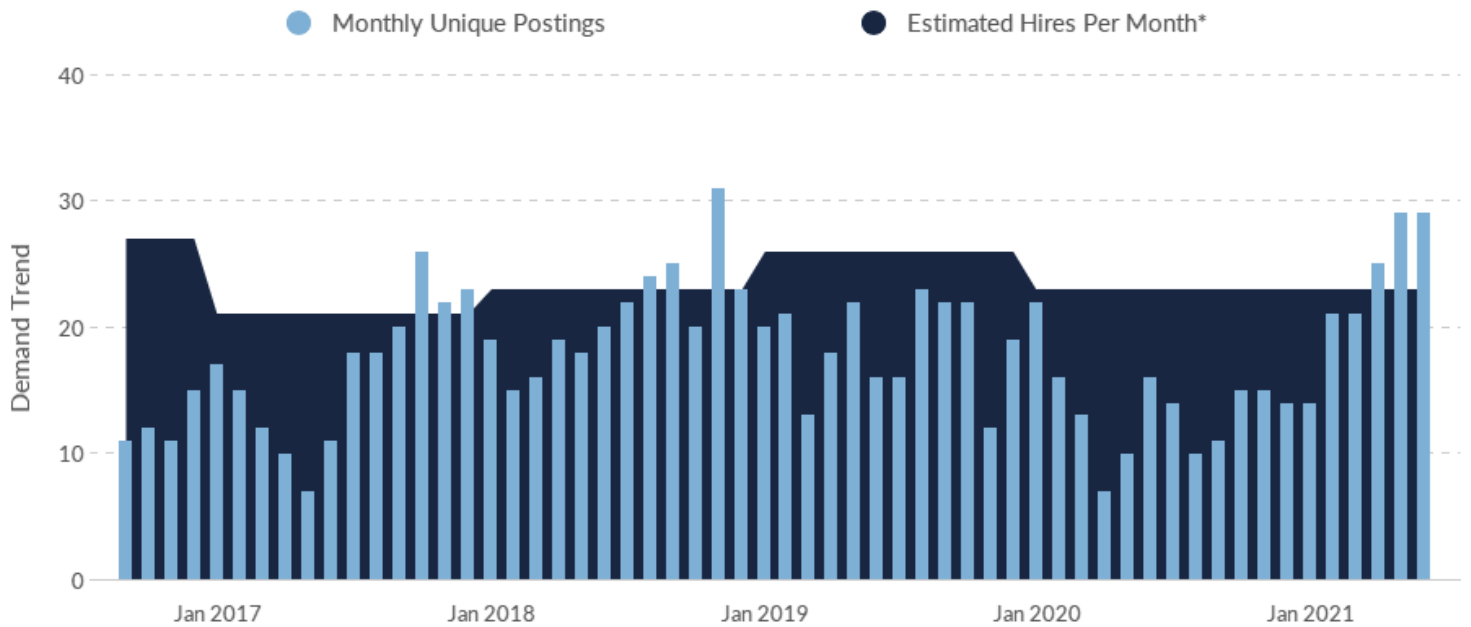The number of unique postings for this job from Jan 2018 to Jun 2021.

113 Employers Competing

All employers in the region who posted for this job from Jan 2018 to Jun 2021.

23 Day Median Duration

Posting duration is 8 days shorter than what's typical in the region.

● Monthly Unique Postings   ● Estimated Hires Per Month*

Occupation	Avg Monthly Postings (Jan 2018 - Jun 2021)	Avg Monthly Hires (Jan 2018 - Jun 2021)
Water and Wastewater Treatment Plant and System Operators	19	24

*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		Top Job Titles	Unique Postings	
City of San Diego	31	▬	Wastewater Plant Operators	22	▬
City of Escondido	22	▬	Water Treatment Plant Operators	22	▬
Aerotek, Inc.	17	▬	Water/Wastewater Operators	17	▬
Sycuan Casino	15	▬	Wastewater Operators	16	▬
County of San Diego	13	▬	Water Treatment Technicians	14	▬
City of Oceanside	12	▬	Plant Operators	13	▬
City of Poway	9	▬	Wastewater Treatment Plant Op...	13	▬
University of California	9	▬	Utility Plant Operators	11	▬
Job Line	6	▬	Water Treatment Operators	11	▬
Fallbrook Public Utility District	5	▬	Water Distribution Operators	10	▬

Top Hard Skills

● Frequency in Job Postings   ● Frequency in Profiles
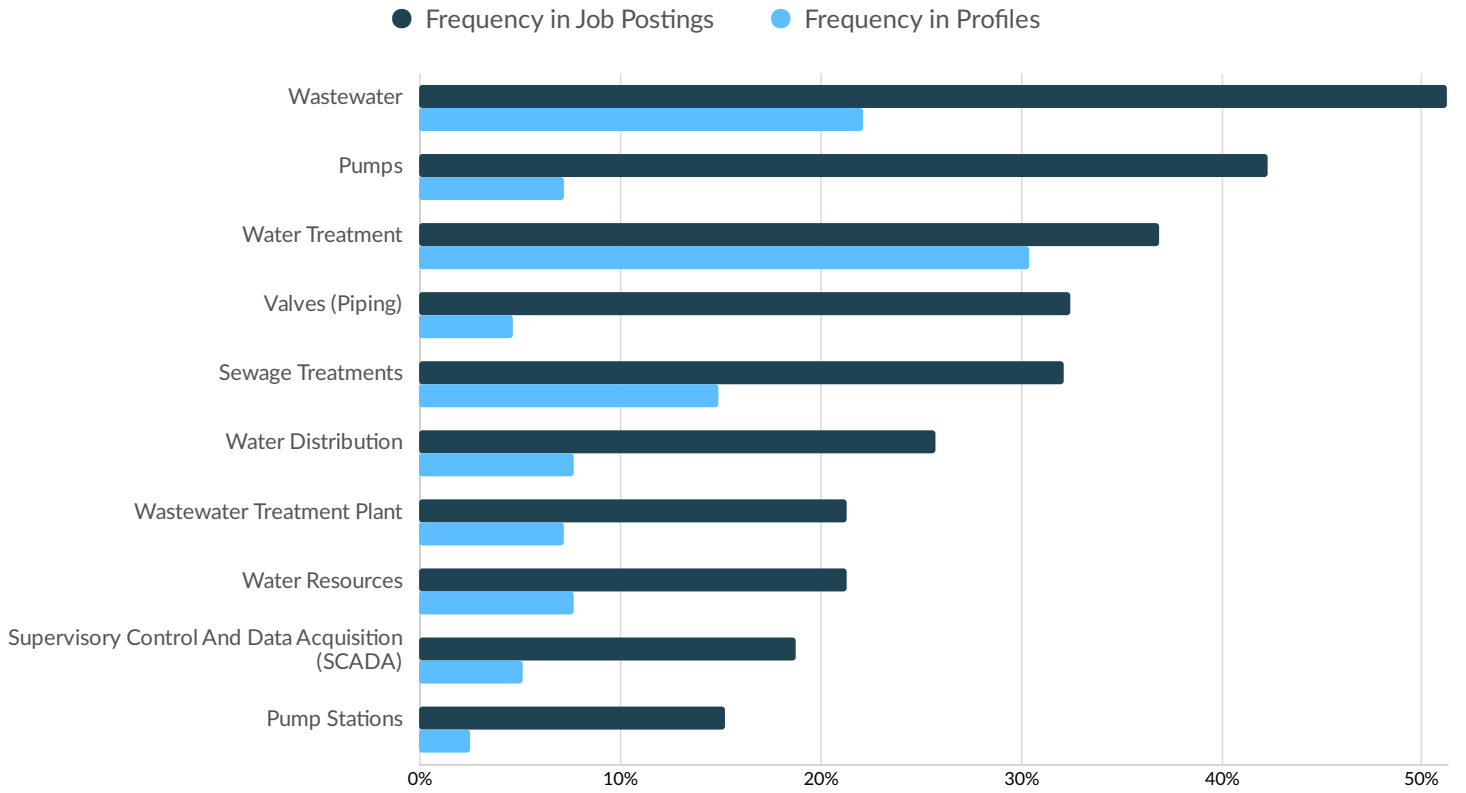
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Wastewater	161	51%	43	22%
Pumps	133	42%	14	7%
Water Treatment	116	37%	59	30%
Valves (Piping)	102	32%	9	5%
Sewage Treatments	101	32%	29	15%
Water Distribution	81	26%	15	8%
Wastewater Treatment Plant	67	21%	14	7%
Water Resources	67	21%	15	8%
Supervisory Control And Data Acquisition (SCADA)	59	19%	10	5%
Pump Stations	48	15%	5	3%

Top Common Skills

● Frequency in Job Postings   ● Frequency in Profiles
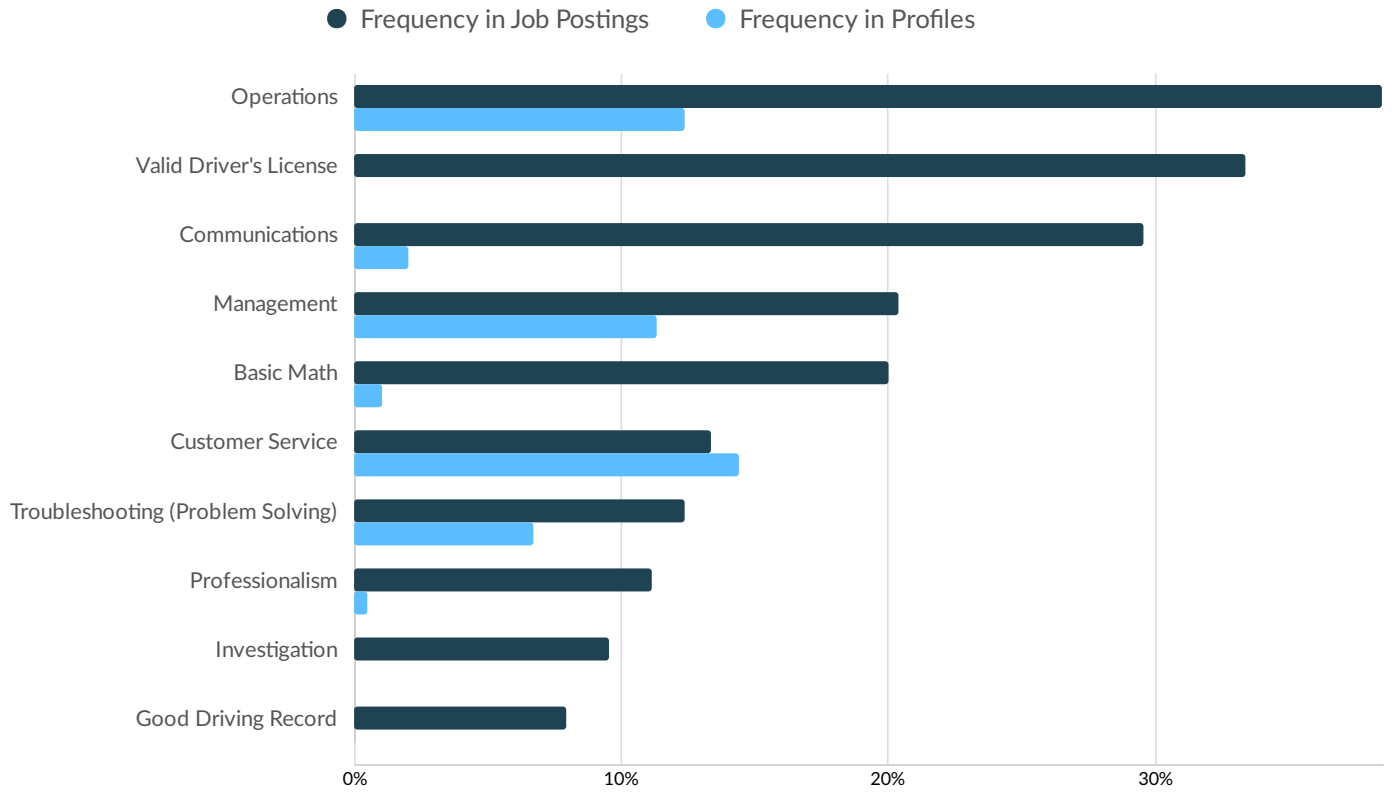
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Operations	121	39%	24	12%
Valid Driver's License	105	33%	0	0%
Communications	93	30%	4	2%
Management	64	20%	22	11%
Basic Math	63	20%	2	1%
Customer Service	42	13%	28	14%
Troubleshooting (Problem Solving)	39	12%	13	7%
Professionalism	35	11%	1	1%
Investigation	30	10%	0	0%
Good Driving Record	25	8%	0	0%

Demographics

## Retirement Risk Is About Average, While Overall Diversity Is High
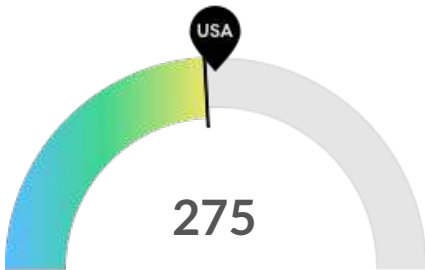
275
Retiring Soon

Retirement risk is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 289* employees 55 or older, while there are 275 here.
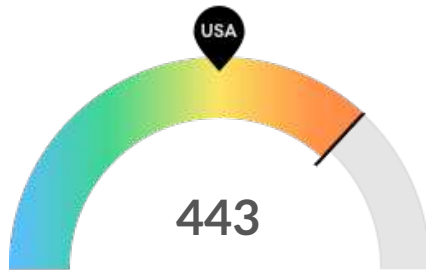
443
Racial Diversity

Racial diversity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 229* racially diverse employees, while there are 443 here.
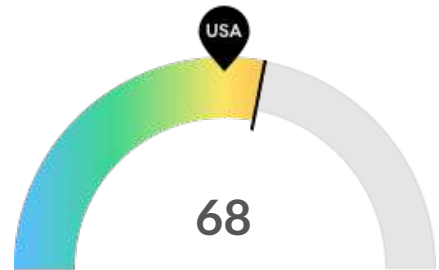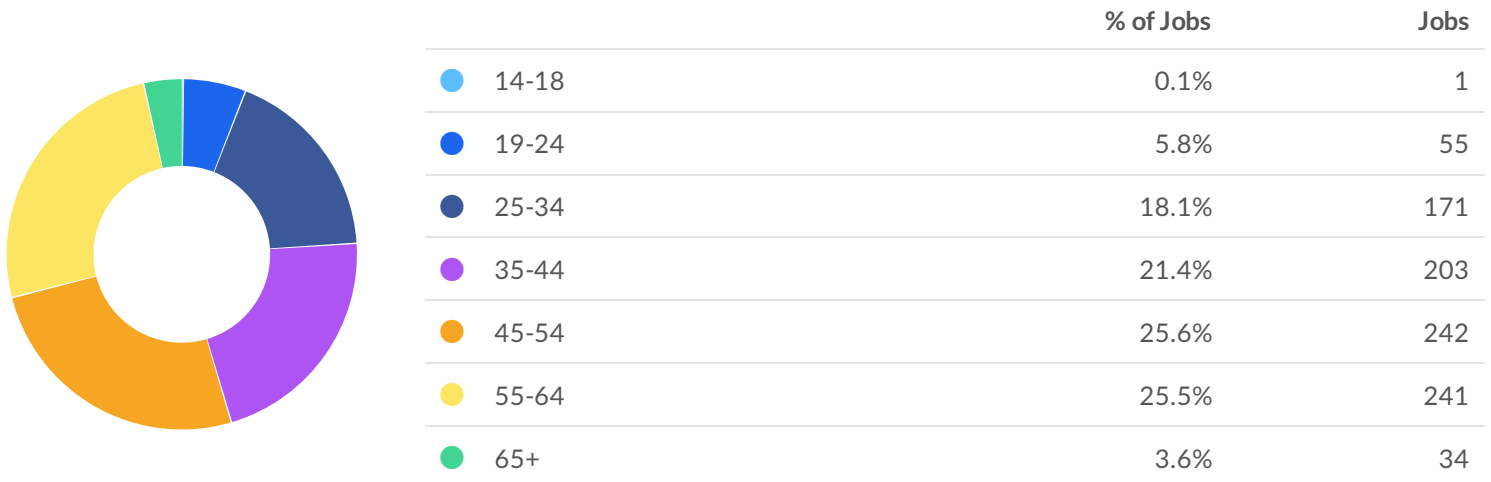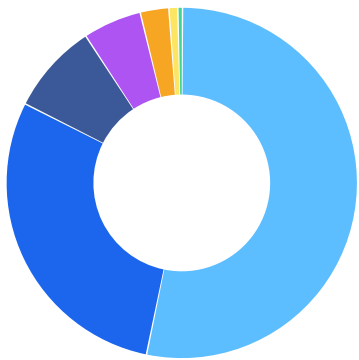
68
Gender Diversity

Gender diversity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 57* female employees, while there are 68 here.

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Occupation Age Breakdown

	% of Jobs	Jobs
14-18	0.1%	1
19-24	5.8%	55
25-34	18.1%	171
35-44	21.4%	203
45-54	25.6%	242
55-64	25.5%	241
65+	3.6%	34

Occupation Race/Ethnicity Breakdown

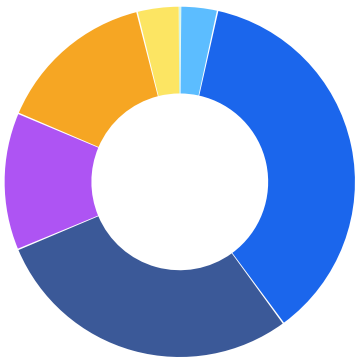|		% of Jobs	Jobs
●	White	53.2%	503
●	Hispanic or Latino	29.2%	276
●	Black or African American	8.3%	79
●	Asian	5.4%	51
●	Two or More Races	2.6%	25
●	American Indian or Alaska Native	0.8%	8
●	Native Hawaiian or Other Pacific Islander	0.4%	4

Occupation Gender Breakdown
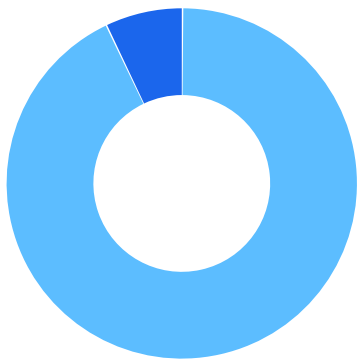
		% of Jobs	Jobs
●	Males	92.9%	878
●	Females	7.1%	68

National Educational Attainment

		% of Jobs
🔵	Less than high school diploma	3.4%
🔵	High school diploma or equivalent	36.5%
🔵	Some college, no degree	28.8%
🟣	Associate's degree	12.7%
🟠	Bachelor's degree	14.7%
🟡	Master's degree	3.9%
🟢	Doctoral or professional degree	0.1%

Occupational Programs

1 Program

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

36 Completions (2019)

The completions from all regional institutions for all degree types.

75 Openings (2019)

The average number of openings for an occupation in the region is 271.

CIP Code	Top Programs	Completions (2019)	
15.0506	Water Quality and Wastewater Treatment Management and...	36	

Top Schools	Completions (2019)	
Cuyamaca College	21	
Palomar College	15	

Appendix A

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)