



# Drafters, Engineering Technicians, and Mapping Technicians in San Diego-Chula Vista-Carlsbad, CA

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## 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*.

 The Atlantic Forbes Harvard Business Review The New York Times WSJ USA TODAY

## Report Parameters

### 1 Occupation

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17-3000 Drafters, Engineering Technicians, and Mapping Technicians

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### 1 MSA

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41740 San Diego-Chula Vista-Carlsbad, CA

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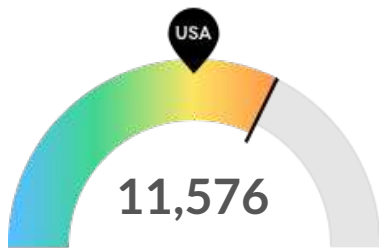
### Class of Worker

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

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

## Executive Summary

### Aggressive Job Posting Demand Over a Deep Supply of Regional Jobs



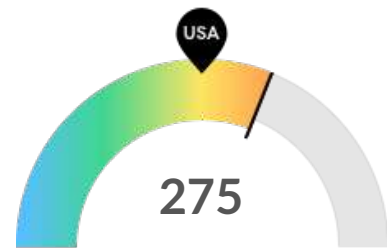
**Jobs (2018)**

San Diego-Chula Vista-Carlsbad, CA is a hotspot for this kind of job. The national average for an area this size is 7,707\* employees, while there are 11,576 here.



**Compensation**

Earnings are high in San Diego-Chula Vista-Carlsbad, CA. The national median salary for Drafters, Engineering Technicians, and Mapping Technicians is \$58,828, compared to \$66,936 here.



**Job Posting Demand**

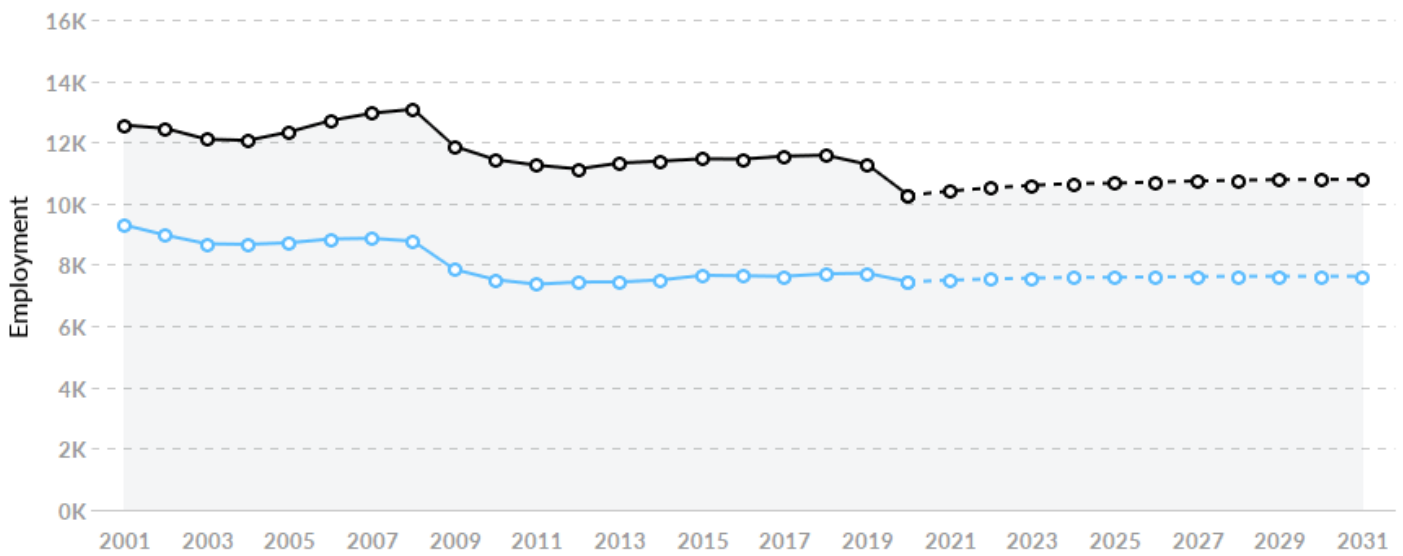
Job posting activity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 196\* job postings/mo, while there are 275 here.

\*National average values are derived by taking the national value for Drafters, Engineering Technicians, and Mapping Technicians 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 7,707\* jobs, while there are 11,576 here. This higher than average supply of jobs may make it easier for workers in this field to find employment in your area.



Region	2018 Jobs	2028 Jobs	Change	% Change
● San Diego-Chula Vista-Carlsbad, CA	11,576	10,761	-815	-7.0%
● National Average	7,707	7,623	-85	-1.1%

\*National average values are derived by taking the national value for Drafters, Engineering Technicians, and Mapping Technicians 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	11,576

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

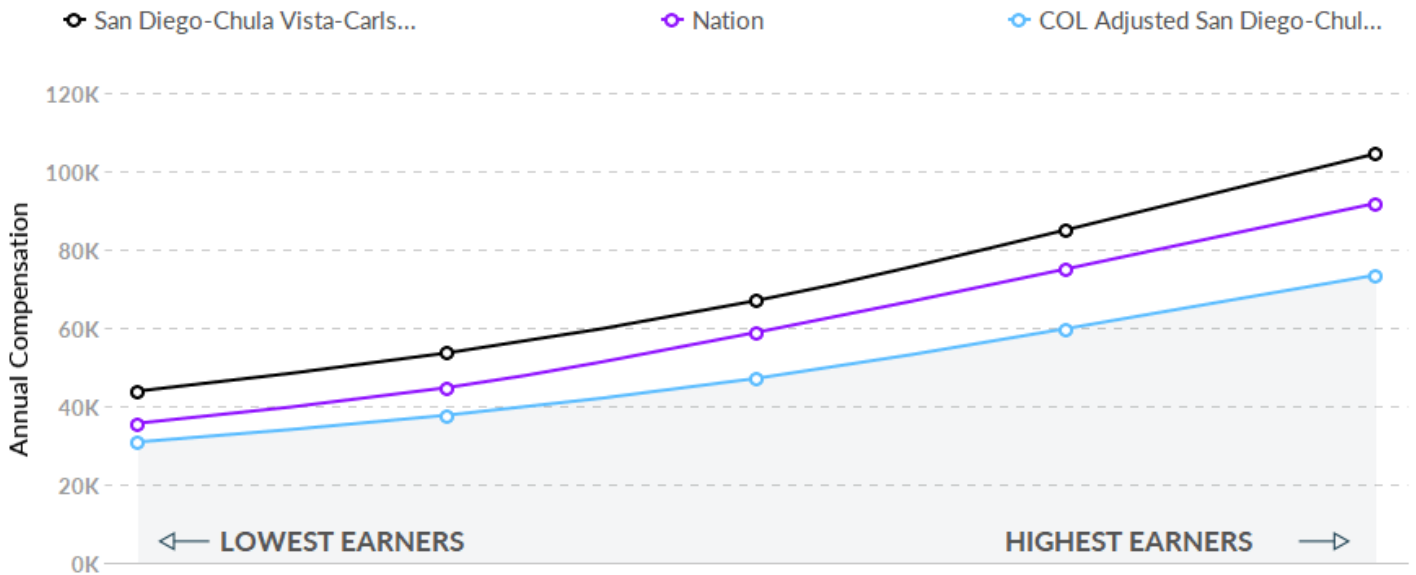


Industry	% of Occupation in Industry (2018)
Architectural, Engineering, and Related Services	30.4%
Scientific Research and Development Services	10.0%
Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	7.5%
Federal Government, Military	5.3%
Federal Government, Civilian	4.9%
Aerospace Product and Parts Manufacturing	4.7%
Other	37.3%

# Compensation

## Regional Compensation Is 14% Higher Than National Compensation

For Drafters, Engineering Technicians, and Mapping Technicians, the 2020 median wage in San Diego-Chula Vista-Carlsbad, CA is \$66,936, while the national median wage is \$58,828.





# Job Posting Activity



**11,554 Unique Job Postings**

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



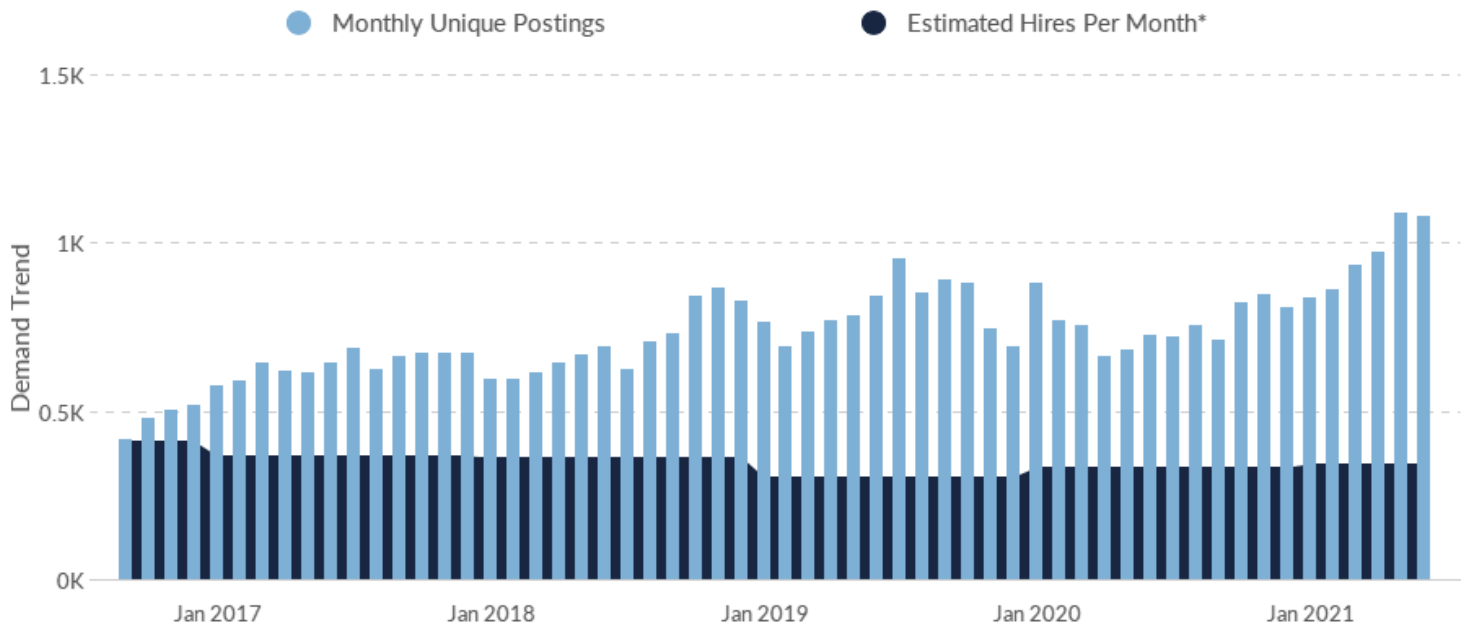
**2,026 Employers Competing**

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













**35 Day Median Duration**











Posting duration is 4 days longer than what's typical in the region.



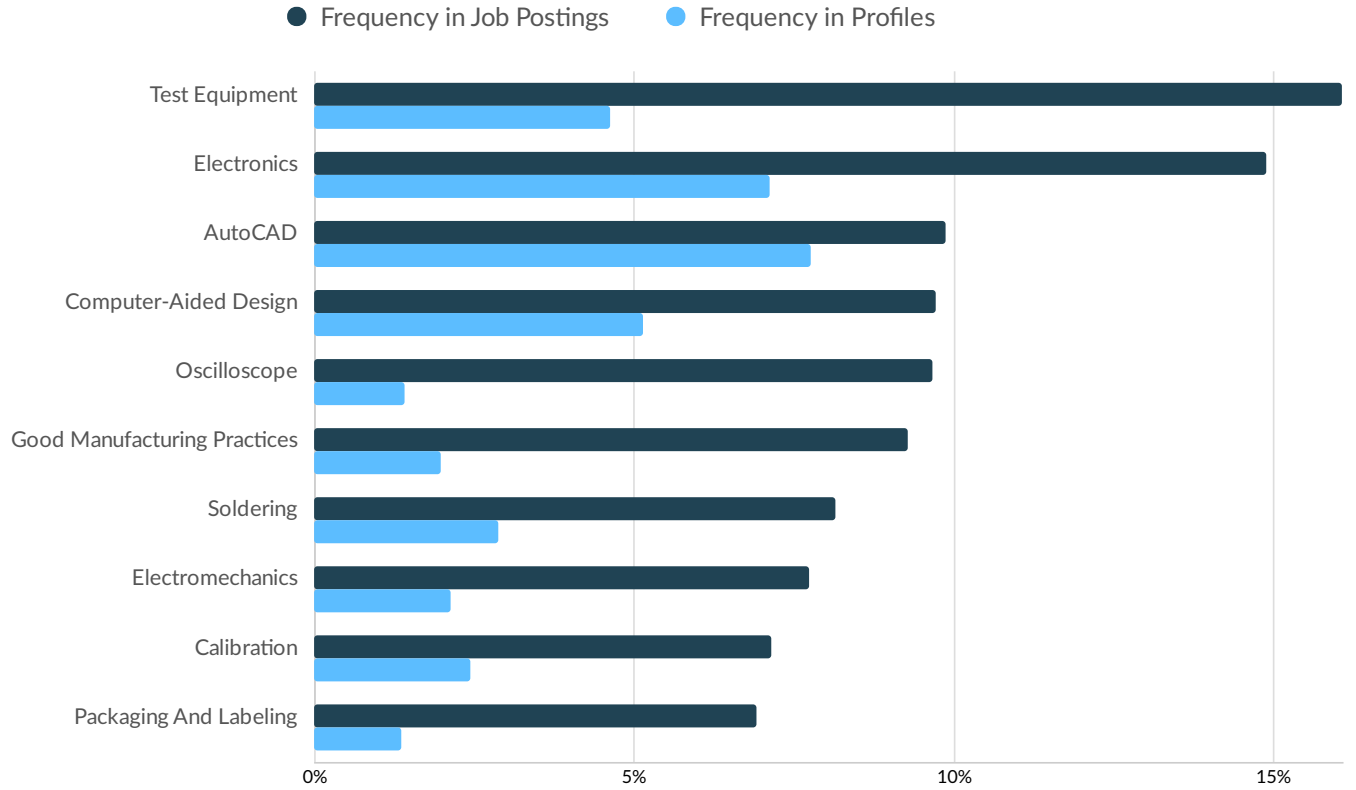
Occupation	Avg Monthly Postings (Jan 2018 - Jun 2021)	Avg Monthly Hires (Jan 2018 - Jun 2021)
Drafters, Engineering Technicians, and Mapping Technicians	784	336

\*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
Aerotek, Inc.	488 
General Atomics	323 
Northrop Grumman Corporation	289 
Kelly Services, Inc.	206 
Epsilon Systems Solutions, Inc.	180 
General Dynamics Corporation	136 
Volt Information Sciences Inc	136 
Qualcomm Incorporated	133 
BAE SYSTEMS PLC	93 
Dexcom, Inc.	93 

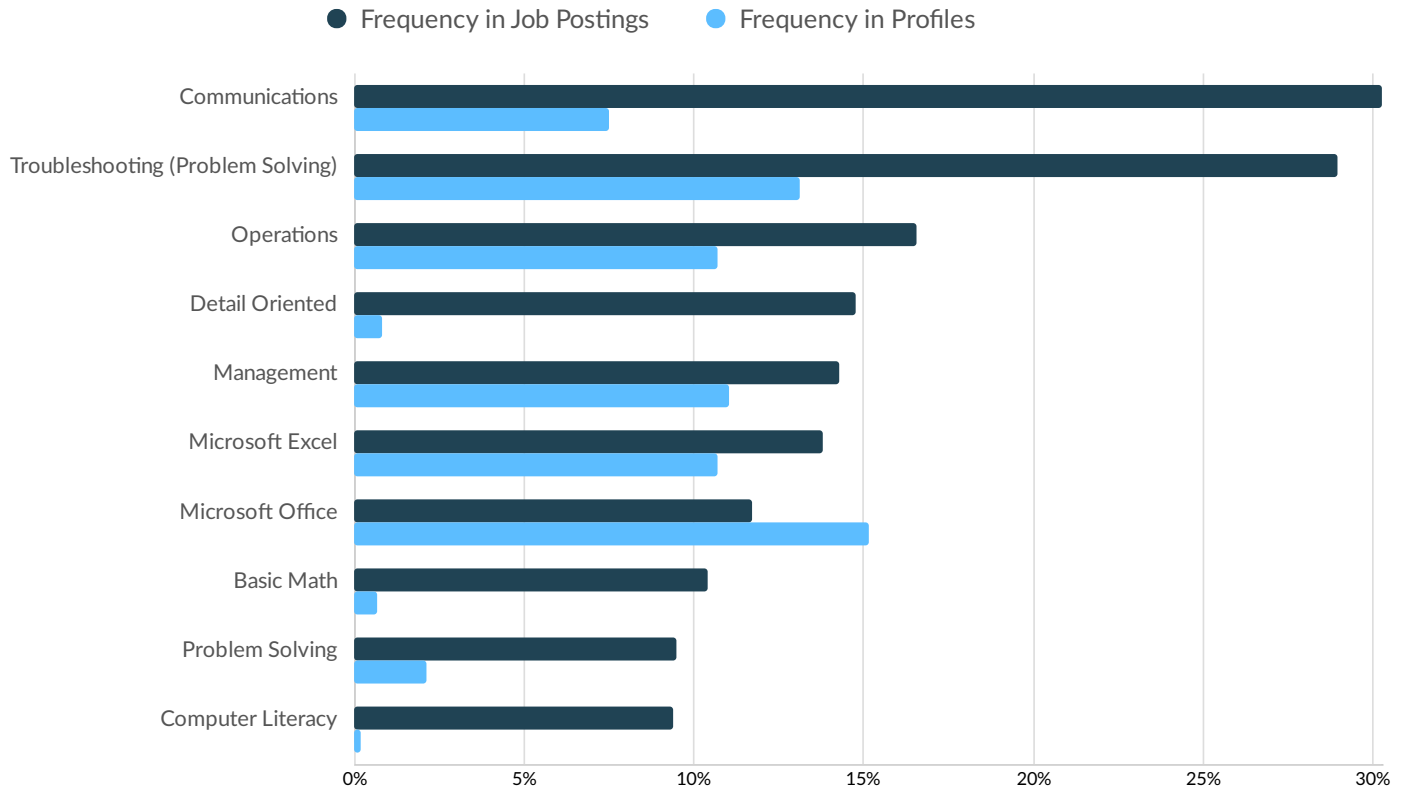
Top Job Titles	Unique Postings
Engineering Technicians	1,068 
Manufacturing Technicians	829 
Electronics Technicians	740 
Test Technicians	324 
Production Technicians	246 
Calibration Technicians	220 
Drafters	214 
Quality Assurance Technicians	185 
Quality Control Technicians	168 
Electromechanical Technicians	158 

## Top Hard Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Test Equipment	1,857	16%	307	5%
Electronics	1,719	15%	473	7%
AutoCAD	1,140	10%	515	8%
Computer-Aided Design	1,122	10%	342	5%
Oscilloscope	1,118	10%	94	1%
Good Manufacturing Practices	1,074	9%	131	2%
Soldering	941	8%	191	3%
Electromechanics	893	8%	141	2%
Calibration	827	7%	162	2%
Packaging And Labeling	799	7%	90	1%

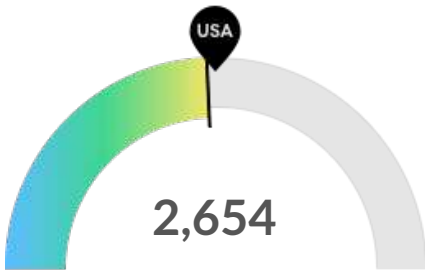
## Top Common Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Communications	3,501	30%	499	8%
Troubleshooting (Problem Solving)	3,349	29%	873	13%
Operations	1,915	17%	711	11%
Detail Oriented	1,709	15%	56	1%
Management	1,651	14%	735	11%
Microsoft Excel	1,597	14%	711	11%
Microsoft Office	1,357	12%	1,008	15%
Basic Math	1,205	10%	44	1%
Problem Solving	1,100	10%	143	2%
Computer Literacy	1,088	9%	13	0%

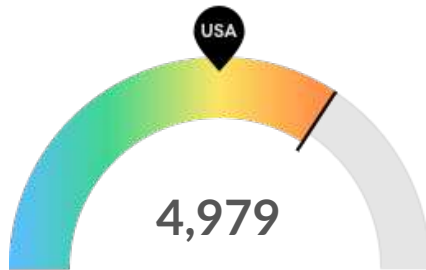
# Demographics

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



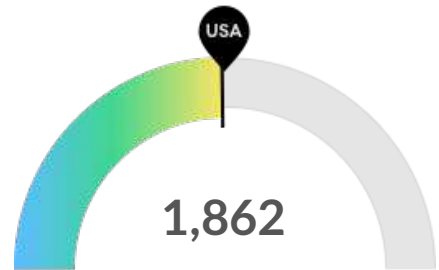
**Retiring Soon**

Retirement risk is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 2,761\* employees 55 or older, while there are 2,654 here.



**Racial Diversity**

Racial diversity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 2,983\* racially diverse employees, while there are 4,979 here.

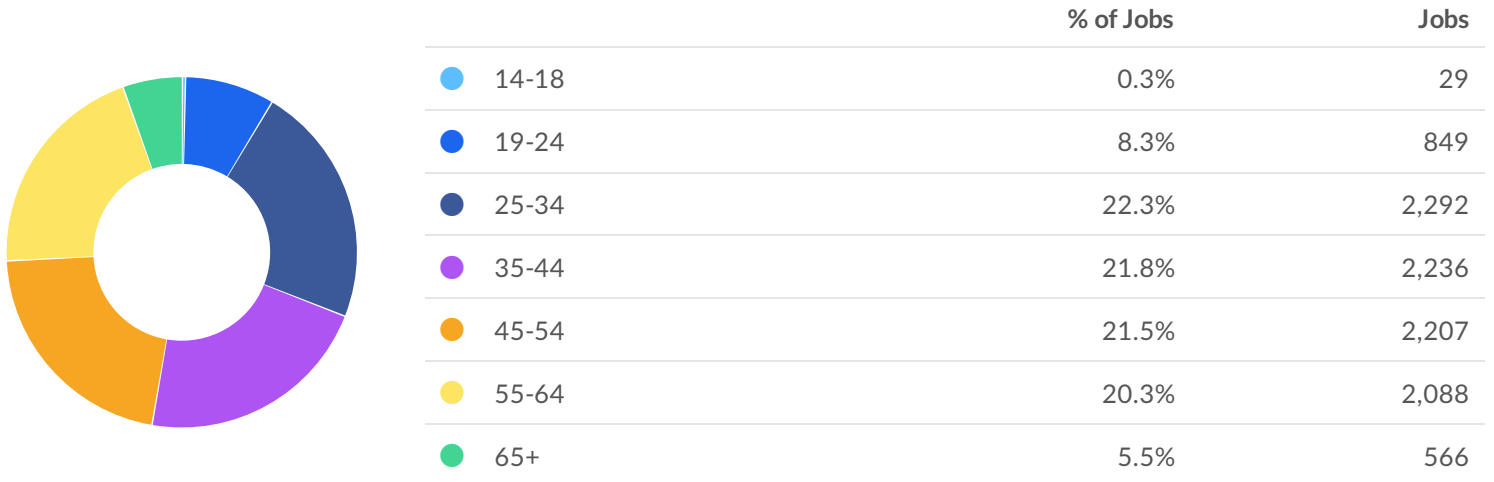


**Gender Diversity**

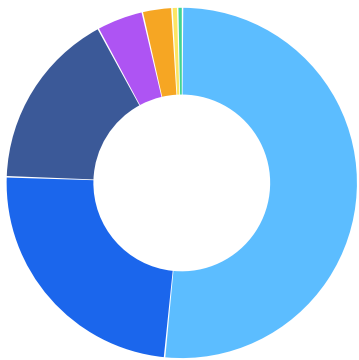
Gender diversity is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 1,886\* female employees, while there are 1,862 here.

\*National average values are derived by taking the national value for Drafters, Engineering Technicians, and Mapping Technicians 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.

## Occupation Age Breakdown



### Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
White	51.5%	5,287
Hispanic or Latino	24.0%	2,463
Asian	16.5%	1,698
Black or African American	4.3%	439
Two or More Races	2.7%	280
Native Hawaiian or Other Pacific Islander	0.5%	54
American Indian or Alaska Native	0.4%	45

### Occupation Gender Breakdown



	% of Jobs	Jobs
Males	81.9%	8,404
Females	18.1%	1,862

## Occupational Programs



**28 Programs**

Of the programs that can train for this job, 28 have produced completions in the last 5 years.



**1,287 Completions (2019)**











The completions from all regional institutions for all degree types.



**987 Openings (2019)**

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

CIP Code	Top Programs	Completions (2019)
47.0604	Automobile/Automotive Mechanics Technology/Technician	201
14.0201	Aerospace, Aeronautical and Astronautical/Space Engineeri...	195
04.0201	Architecture	163
15.0401	Biomedical Technology/Technician	162
15.1202	Computer Technology/Computer Systems Technology	136
15.0501	Heating, Ventilation, Air Conditioning and Refrigeration Eng...	67
45.0701	Geography	65
47.0607	Airframe Mechanics and Aircraft Maintenance Technology/...	60
04.0901	Architectural Technology/Technician	46
15.1301	Drafting and Design Technology/Technician, General	41

Top Schools	Completions (2019)
San Diego Miramar College	233 
Newschool of Architecture and Design	166 
San Diego State University	160 
California Institute of Arts & Technology	134 
MiraCosta College	127 
University of California-San Diego	102 
San Diego City College	84 
Palomar College	72 
Southwestern College	64 
National University	45 



## Appendix A

### Drafters, Engineering Technicians, and Mapping Technicians in San Diego-Chula Vista-Carlsbad, CA

## 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 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's cost of living data is based on the Cost of Living Index published 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.