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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 New Hork





Report Parameters

4 Occupations

17-2051	Civil Engineers	17-2141	Mechanical Engineers
17-2071	Electrical Engineers	17-2011	Aerospace Engineers

1 MSA

41740 San Diego-Chula Vista-Carlsbad, CA

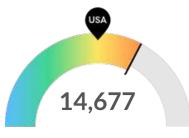
Class of Worker

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

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

Executive Summary

Aggressive Job Posting Demand Over a Deep Supply of Regional Jobs



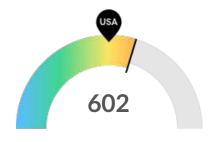
Jobs (2018)

San Diego-Chula Vista-Carlsbad, CA is a hotspot for this kind of job. The national average for an area this size is 9,597* employees, while there are 14,677 here.



Compensation

Earnings are about average in San Diego-Chula Vista-Carlsbad, CA. The national median salary for your occupations is \$90,966, compared to \$96,095 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 462* job postings/mo, while there are 602 here.

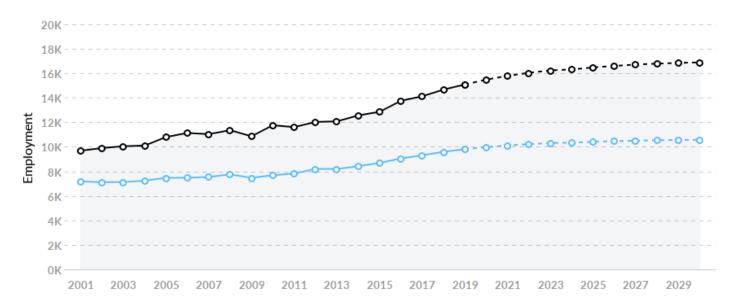
^{*}National average values are derived by taking the national value for your occupations and scaling it down to account for the difference in overall workforce size between the nation and San Diego-Chula Vista-Carlsbad, CA. In other words, the values represent the national average adjusted for region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



Jobs

Regional Employment Is Higher Than the National Average

An average area of this size typically has 9,597* jobs, while there are 14,677 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-O Vista-Carlsk		16,794	2,117	14.4%
National Av	erage 9,597	10,542	945	9.8%

^{*}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.

Regional Breakdown



County	2018 Jobs
San Diego County, CA	14,677

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



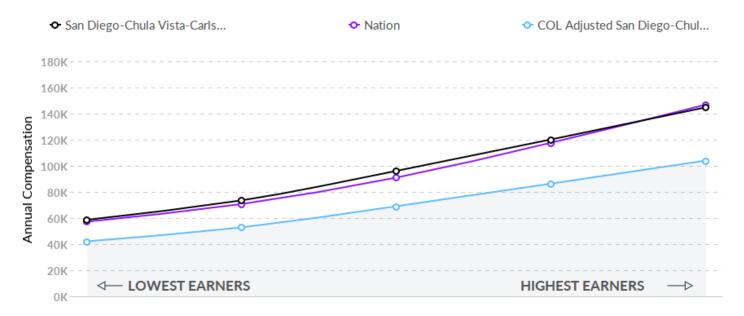
Industry	% of Occupation in Industry (2018)
Architectural, Engineering, and Related Services	34.2%
Scientific Research and Development Services	12.5%
Aerospace Product and Parts Manufacturing	8.3%
Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	7.3%
Federal Government, Civilian	4.9%
Local Government, Excluding Education and Hospitals	3.4%
Other	29.4%



Compensation

Regional Compensation Is 6% Higher Than National Compensation

For your occupations, the 2018 median wage in San Diego-Chula Vista-Carlsbad, CA is \$96,095, while the national median wage is \$90,966.



Job Posting Activity



17,446 Unique Job Postings

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



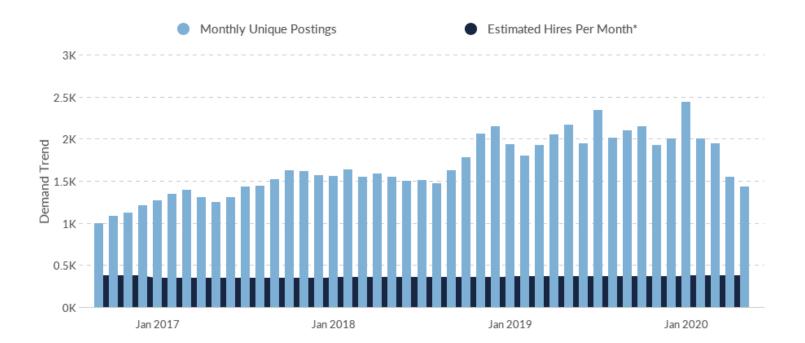
2,420 Employers Competing

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



43 Day Median Duration

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



Occupation	Avg Monthly Postings (Jan 2018 - May 2020)	Avg Monthly Hires (Jan 2018 - May 2020)
Mechanical Engineers	646	92
Electrical Engineers	671	81
Civil Engineers	397	157
Aerospace Engineers	137	35

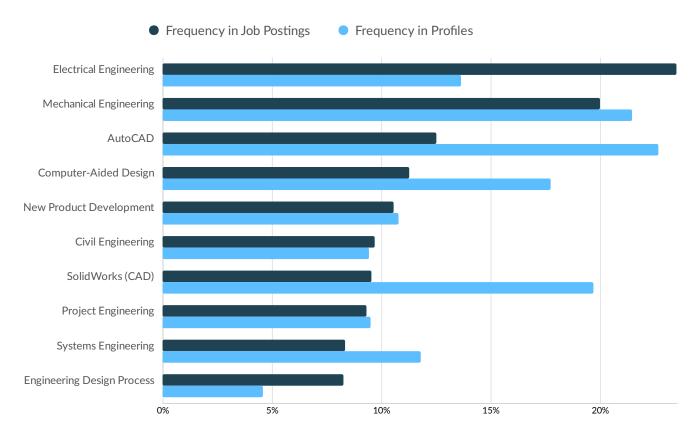
^{*}A hire is reported by the Quarterly Workforce Indicators when an individual's Social Security Number appears on a company's payroll and was not there the quarter before. Emsi hires are calculated using a combination of Emsi jobs data, information on separation rates from the Bureau of Labor Statistics (BLS), and industry-based hires data from the Census Bureau.

. I Emsi Occupation Overview

Top Companies	Unique Postings	Top Job Titles	Unique Postings
General Atomics	973	Design Engineers (Architecture	2,121
Northrop Grumman Corporation	842	Mechanical Engineers	1,669
Qualcomm Incorporated	680	Project Engineers (Architecture	926
CyberCoders, Inc.	499	Civil Engineers	804
Growing People and Companies	260	Senior Electrical Engineers	750
Aerotek, Inc.	206	Systems Engineers (Architecture	573
Asml Us, Inc.	193	Field Engineers (Architecture an	528
Viasat, Inc.	167	Structural Engineers	465
Kforce Inc.	154	Quality Assurance Engineers (Ar	393
Apple Inc.	134	Service Engineers	261

. I Emsi Occupation Overview

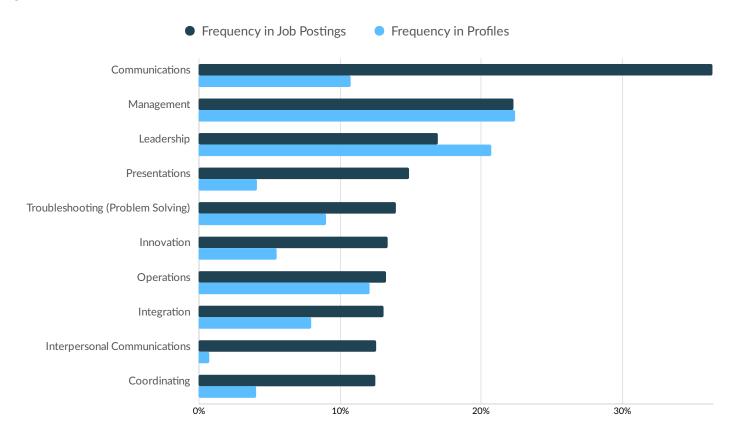
Top Hard Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Electrical Engineering	5,479	23%	2,095	14%
Mechanical Engineering	4,666	20%	3,294	21%
AutoCAD	2,922	13%	3,483	23%
Computer-Aided Design	2,631	11%	2,726	18%
New Product Development	2,459	11%	1,655	11%
Civil Engineering	2,265	10%	1,448	9%
SolidWorks (CAD)	2,224	10%	3,024	20%
Project Engineering	2,176	9%	1,462	10%
Systems Engineering	1,944	8%	1,813	12%
Engineering Design Process	1,928	8%	705	5%

. I Emsi Occupation Overview

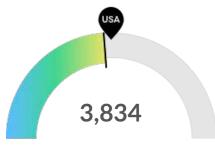
Top Common Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Communications	8,495	36%	1,654	11%
Management	5,199	22%	3,442	22%
Leadership	3,952	17%	3,184	21%
Presentations	3,484	15%	636	4%
Troubleshooting (Problem Solving)	3,258	14%	1,387	9%
Innovation	3,130	13%	848	6%
Operations	3,098	13%	1,863	12%
Integration	3,057	13%	1,226	8%
Interpersonal Communications	2,941	13%	116	1%
Coordinating	2,929	13%	629	4%

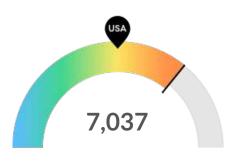
Demographics

Retirement Risk Is About Average, While Overall Diversity Is High



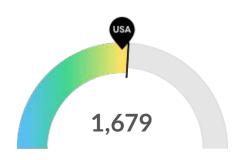
Retiring Soon

Retirement risk is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 4,101* employees 55 or older, while there are 3,834 here.



Racial Diversity

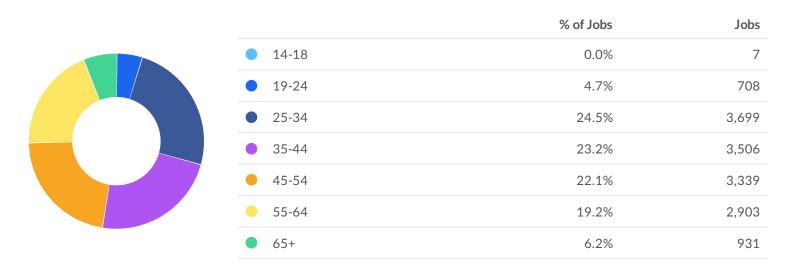
Racial diversity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 3,849* racially diverse employees, while there are 7,037 here.



Gender Diversity

Gender diversity is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 1,591* female employees, while there are 1,679 here.

Occupation Age Breakdown

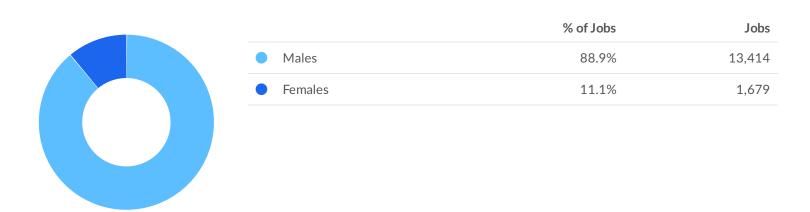


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Occupation Race/Ethnicity Breakdown



Occupation Gender Breakdown



Occupational Programs



6 Programs

Of the programs that can train for this job, 6 have produced completions in the last 5 years.



1,644 Completions (2018)

The completions from all regional institutions for all degree types.



1,454 Openings (2018)

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

CIP Code	Top Programs	Completions (2018)
14.1901	Mechanical Engineering	600
14.1001	Electrical and Electronics Engineering	519
14.0803	Structural Engineering	209
14.0201	Aerospace, Aeronautical and Astronautical/Space Engineeri	155
14.0801	Civil Engineering, General	150
14.3301	Construction Engineering	11

Top Schools	Completions (2018)
University of California-San Diego	819
San Diego State University	693
University of San Diego	106
National University	26



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.