

A photograph of two young women sitting at a desk, looking at a laptop. The woman on the left is wearing a plaid shirt and red glasses, smiling. The woman on the right is wearing a dark blue sweater and has headphones around her neck. The image is overlaid with a semi-transparent dark grey filter.

Computer Science 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*.



Report Parameters

2 Occupations

15-1131 Computer Programmers

43-9011 Computer Operators

1 MSA

41740 San Diego-Chula Vista-Carlsbad, CA

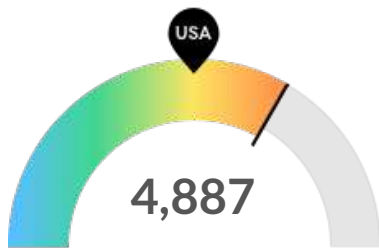
Class of Worker

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

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

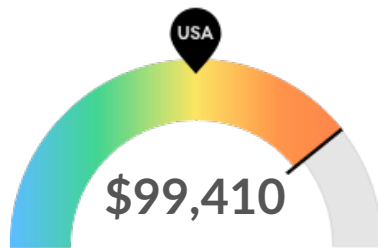
Executive Summary

Average Job Posting Demand Over a Deep Supply of Regional Jobs



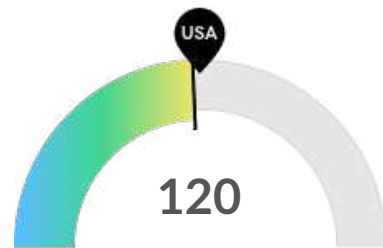
Jobs (2018)

San Diego-Chula Vista-Carlsbad, CA is a hotspot for this kind of job. The national average for an area this size is 3,080* employees, while there are 4,887 here.



Compensation

Earnings are high in San Diego-Chula Vista-Carlsbad, CA. The national median salary for your occupations is \$77,199, compared to \$99,410 here.



Job Posting Demand

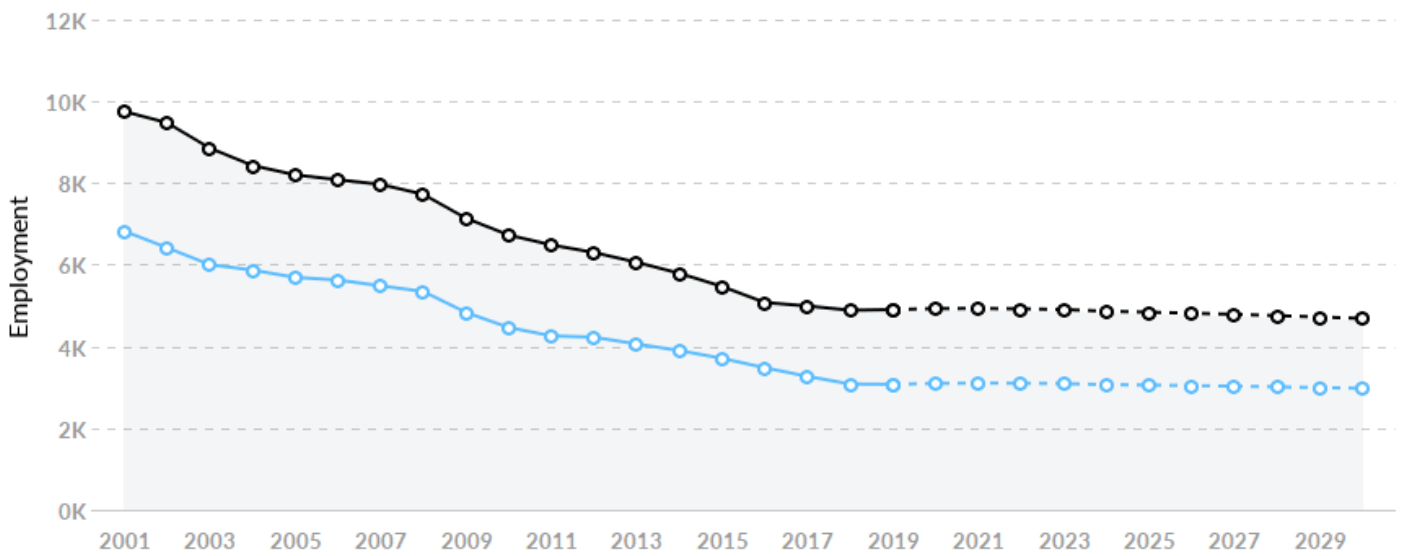
Job posting activity is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 125* job postings/mo, while there are 120 here.

*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 3,080* jobs, while there are 4,887 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	4,887	4,754	-134	-2.7%
● National Average	3,080	3,011	-69	-2.2%

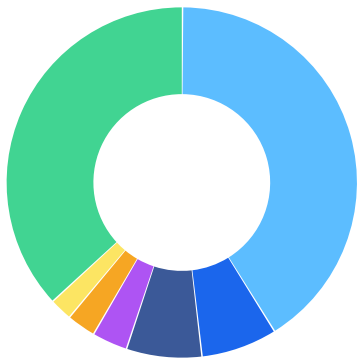
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Regional Breakdown



County	2018 Jobs
San Diego County, CA	4,887

Most Jobs are Found in the Computer Systems Design and Related Services Industry Sector

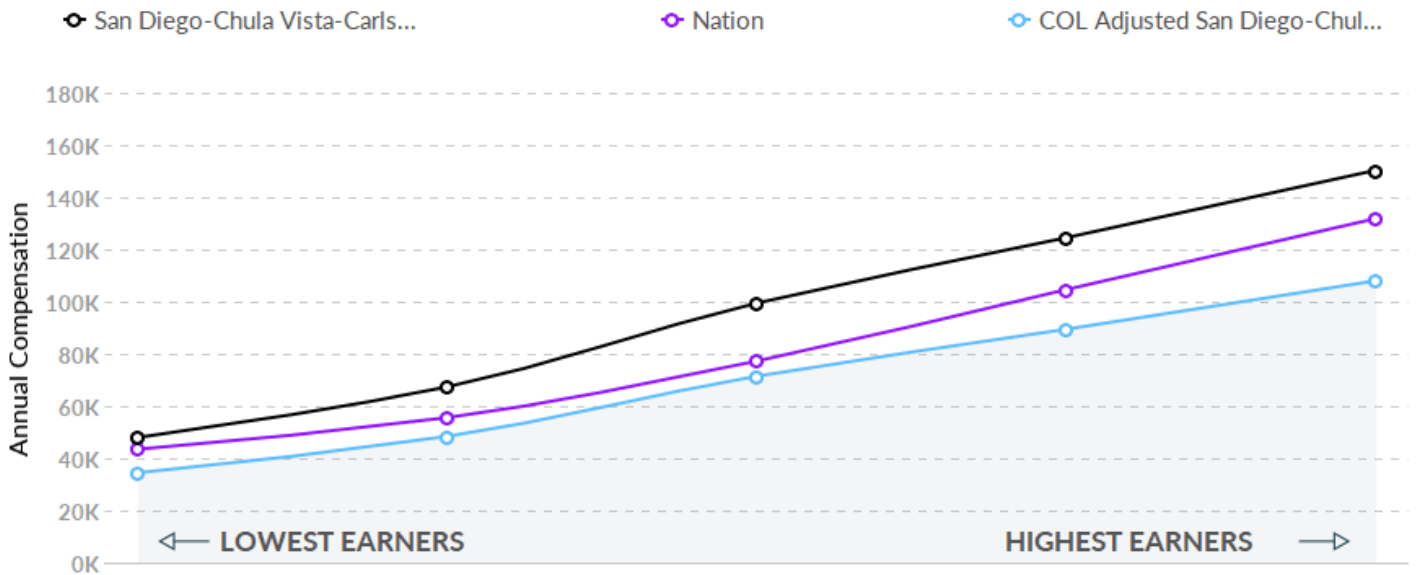


Industry	% of Occupation in Industry (2018)
Computer Systems Design and Related Services	41.1%
Scientific Research and Development Services	7.0%
Software Publishers	7.0%
Management of Companies and Enterprises	3.3%
Management, Scientific, and Technical Consulting Services	2.7%
Education and Hospitals (State Government)	2.1%
Other	36.9%

Compensation

Regional Compensation Is 29% Higher Than National Compensation

For your occupations, the 2018 median wage in San Diego-Chula Vista-Carlsbad, CA is \$99,410, while the national median wage is \$77,199.



Job Posting Activity



3,489 Unique Job Postings

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



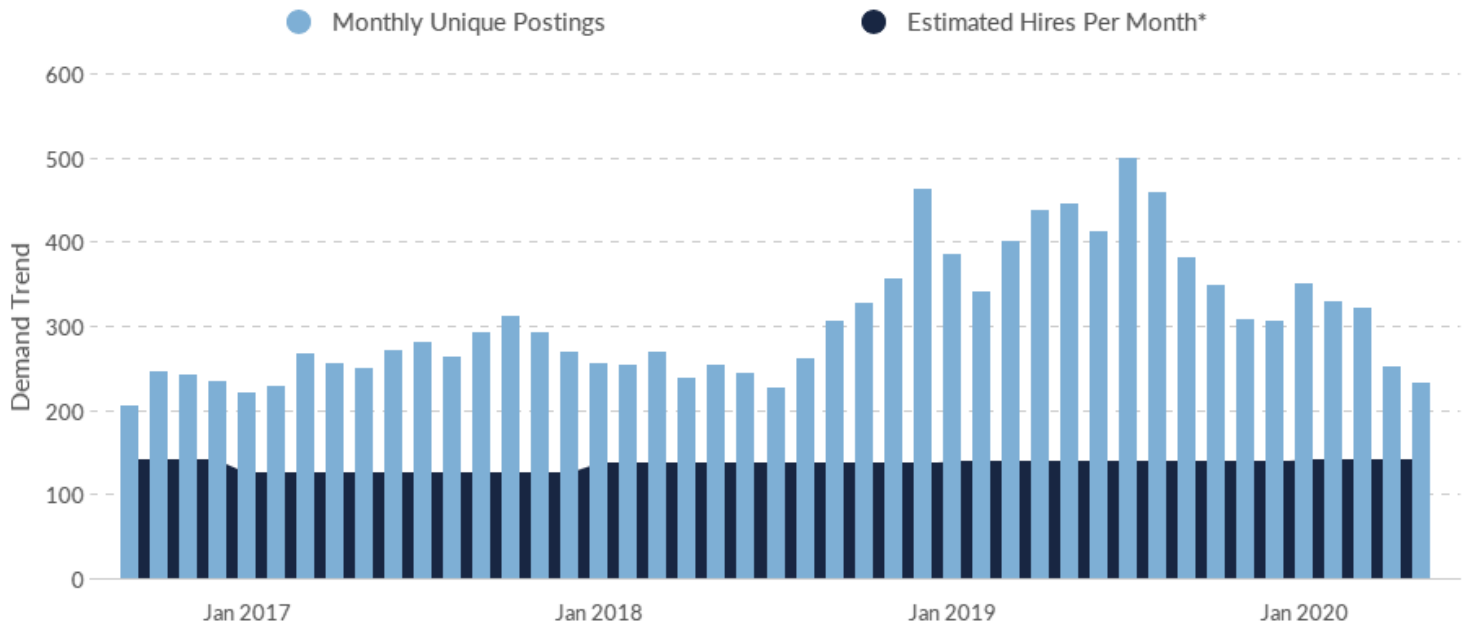
823 Employers Competing

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













31 Day Median Duration











Posting duration is 2 days shorter than what's typical in the region.



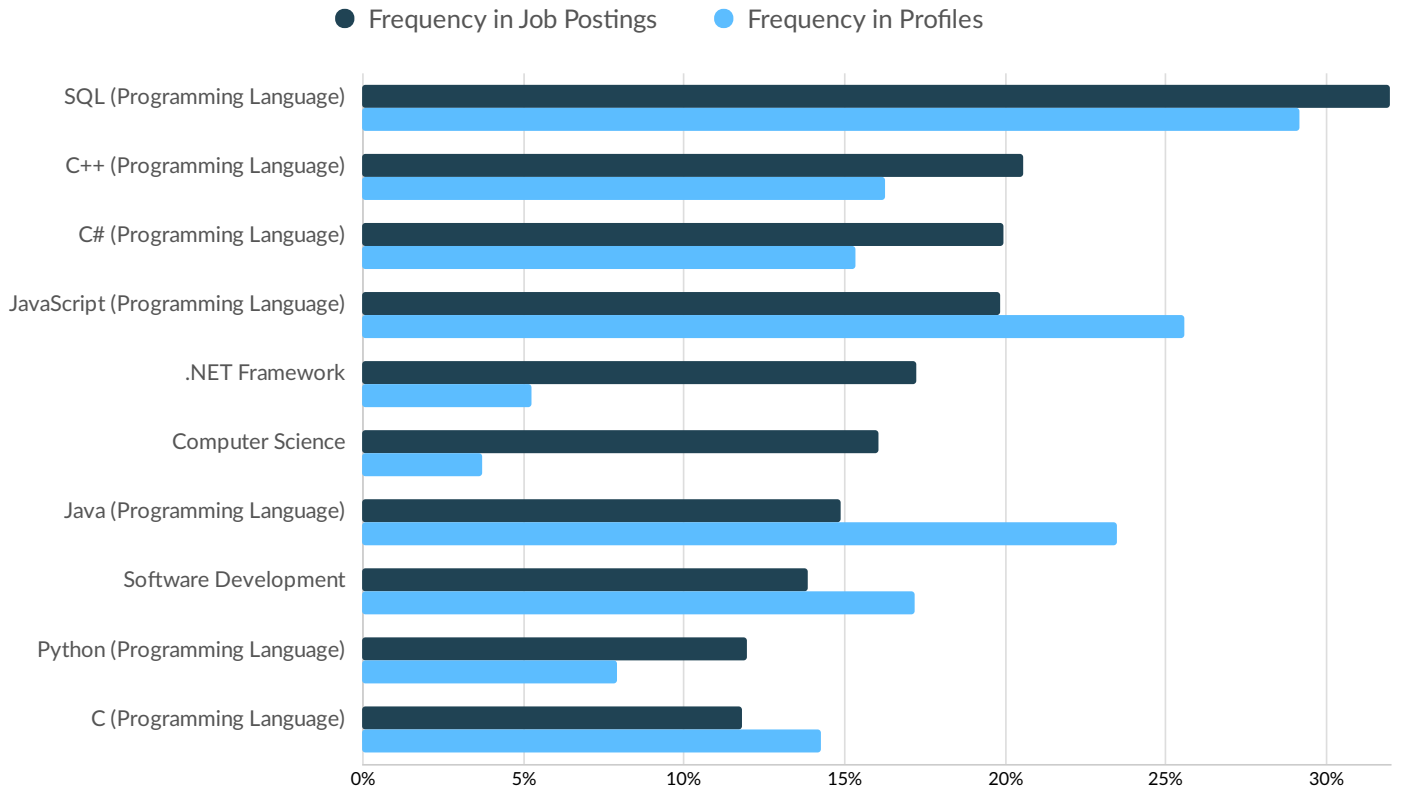
Occupation	Avg Monthly Postings (Jan 2018 - May 2020)	Avg Monthly Hires (Jan 2018 - May 2020)
Computer Programmers	326	122
Computer Operators	7	18

*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
Revature	298 
Rockstar Games, Inc.	133 
University of California	121 
NIGEL FRANK INTERNATIONAL...	86 
Russ Client	48 
Robert Half International Inc.	45 
CyberCoders, Inc.	40 
Mason Frank	39 
Kforce Inc.	33 
Volt Information Sciences Inc	31 

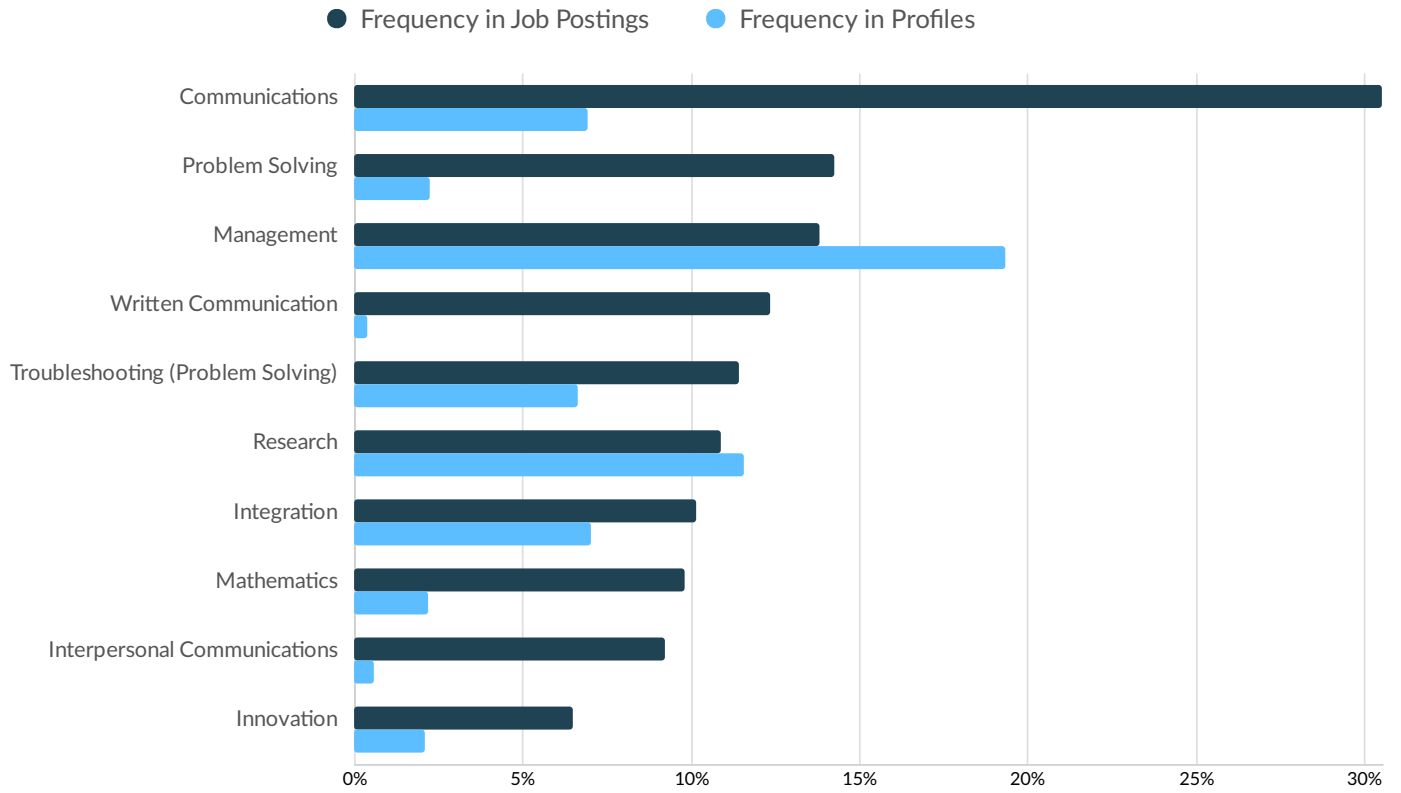
Top Job Titles	Unique Postings
Programmers	505 
.Net Developers	332 
Software Engineers	317 
Junior Software Engineers	160 
Statistical Programmers	151 
SQL Developers	109 
CRM Developers	96 
Oracle Developers	92 
SAS Programmers	89 
Microsoft Dynamics Developers	76 

Top Hard Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
SQL (Programming Language)	1,522	32%	626	29%
C++ (Programming Language)	978	21%	349	16%
C# (Programming Language)	949	20%	330	15%
JavaScript (Programming Language)	946	20%	550	26%
.NET Framework	820	17%	113	5%
Computer Science	765	16%	80	4%
Java (Programming Language)	708	15%	505	24%
Software Development	660	14%	369	17%
Python (Programming Language)	570	12%	170	8%
C (Programming Language)	563	12%	307	14%

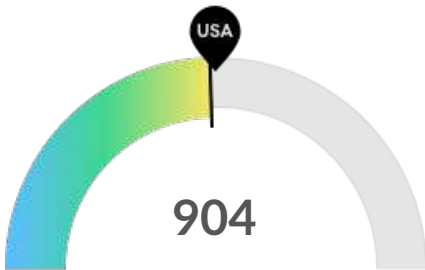
Top Common Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Communications	1,453	31%	149	7%
Problem Solving	679	14%	48	2%
Management	658	14%	415	19%
Written Communication	589	12%	8	0%
Troubleshooting (Problem Solving)	545	11%	143	7%
Research	519	11%	249	12%
Integration	483	10%	151	7%
Mathematics	467	10%	47	2%
Interpersonal Communications	439	9%	13	1%
Innovation	309	6%	45	2%

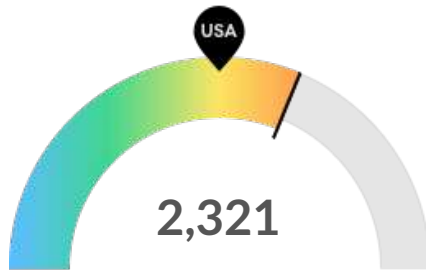
Demographics

Retirement Risk Is About Average, While Overall Diversity Is High



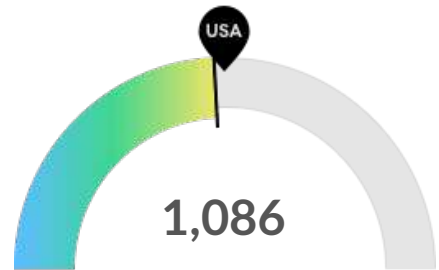
Retiring Soon

Retirement risk is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 928* employees 55 or older, while there are 904 here.



Racial Diversity

Racial diversity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 1,641* racially diverse employees, while there are 2,321 here.

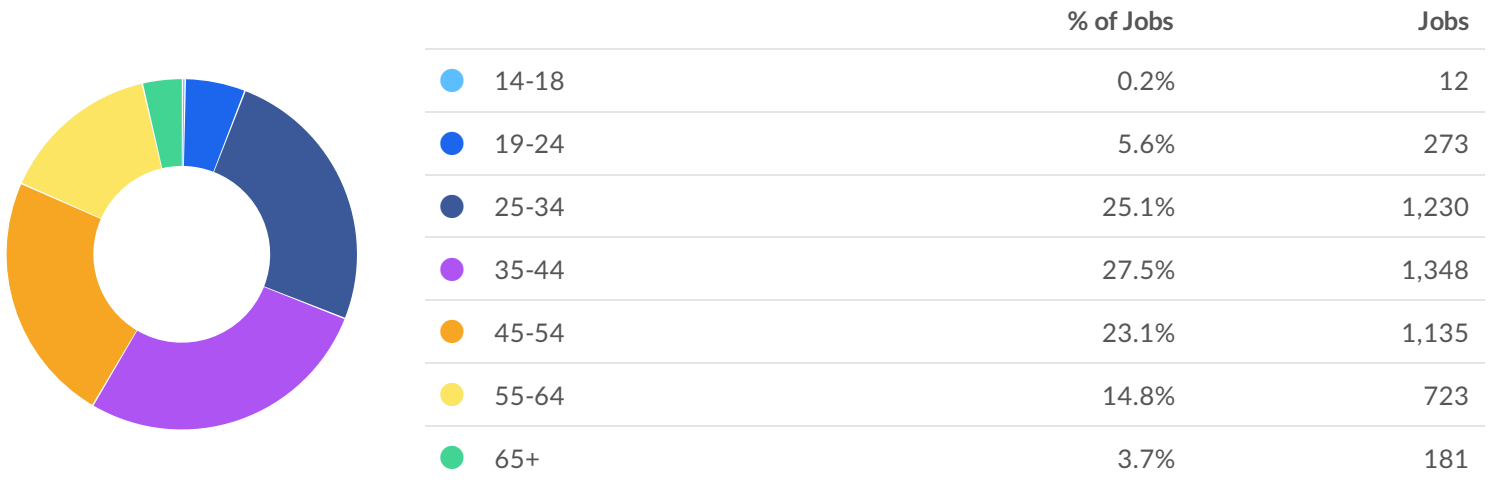


Gender Diversity

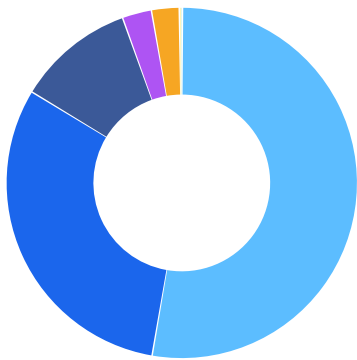
Gender diversity is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 1,139* female employees, while there are 1,086 here.

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Occupation Age Breakdown

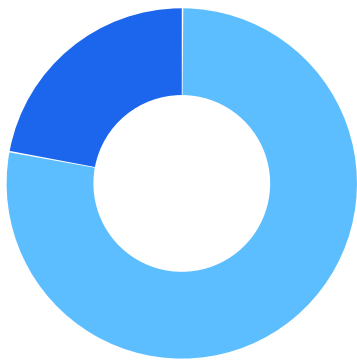


Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
White	52.6%	2,581
Asian	31.0%	1,518
Hispanic or Latino	10.8%	531
Two or More Races	2.7%	133
Black or African American	2.5%	125
American Indian or Alaska Native	0.2%	9
Native Hawaiian or Other Pacific Islander	0.1%	6

Occupation Gender Breakdown



	% of Jobs	Jobs
Males	77.8%	3,815
Females	22.2%	1,086

Occupational Programs



5 Programs

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



1,750 Completions (2018)

The completions from all regional institutions for all degree types.



383 Openings (2018)

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

CIP Code	Top Programs	Completions (2018)
11.0701	Computer Science	1,458
52.1201	Management Information Systems, General	187
11.0201	Computer Programming/Programmer, General	89
11.0203	Computer Programming, Vendor/Product Certification	12
11.0803	Computer Graphics	4

Top Schools	Completions (2018)
University of California-San Diego	811
San Diego State University	241
National University	168
California State University-San Marcos	136
Ashford University	113
California College San Diego	75
California College San Diego	50
Palomar College	40
Southwestern College	31
University of San Diego	24

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.