

A man in a yellow t-shirt and dark blue jeans is kneeling on a metal grate floor in a server room. He is focused on a laptop computer resting on his lap, with his hands on the keyboard. The room is filled with server racks on both sides, and the lighting is dim, creating a professional and technical atmosphere.

Computer Information 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

4 Occupations

15-1143 Computer Network Architects

11-3021 Computer and Information Systems Mana.

15-1152 Computer Network Support Specialists

15-1122 Information Security Analysts

1 MSA

41740 San Diego-Chula Vista-Carlsbad, CA

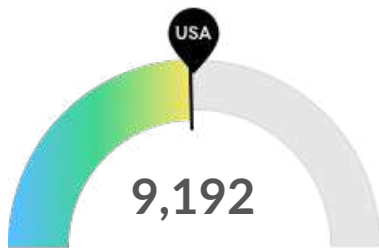
Class of Worker

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

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

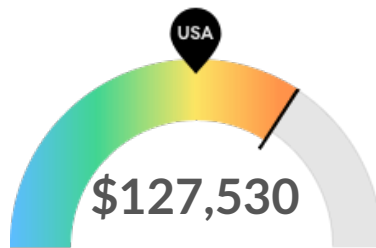
Executive Summary

Average Job Posting Demand Over an Average Supply of Regional Jobs



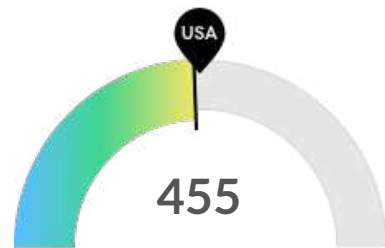
Jobs (2018)

San Diego-Chula Vista-Carlsbad, CA is about average for this kind of job. The national average for an area this size is 9,373* employees, while there are 9,192 here.



Compensation

Earnings are high in San Diego-Chula Vista-Carlsbad, CA. The national median salary for your occupations is \$110,380, compared to \$127,530 here.



Job Posting Demand

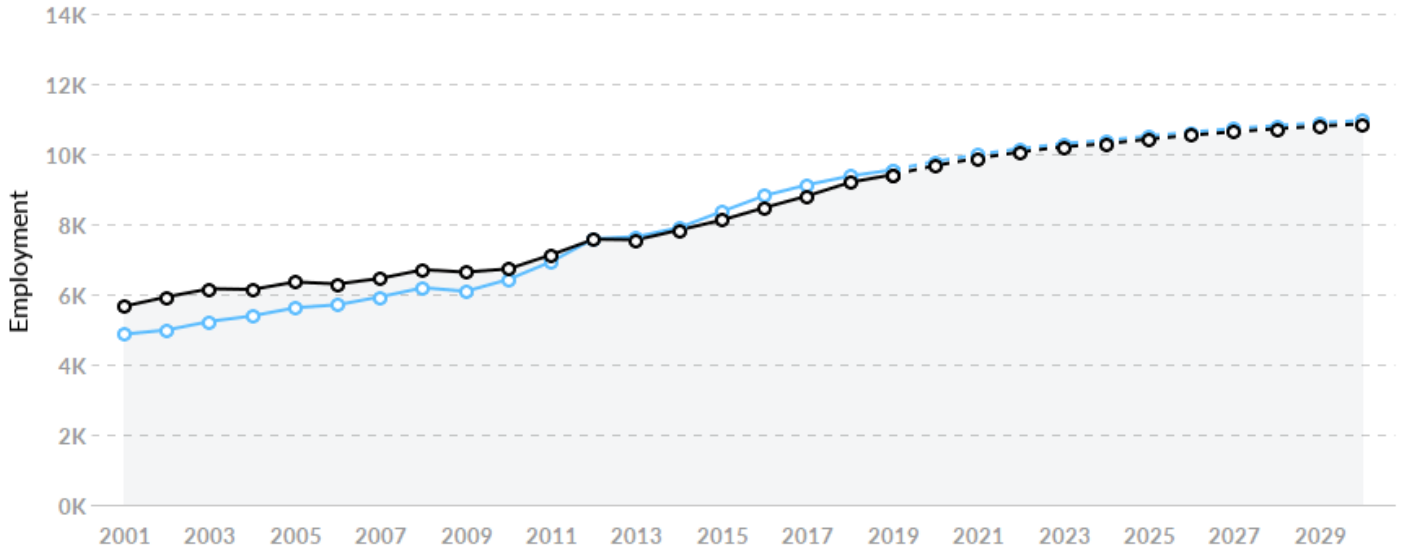
Job posting activity is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 470* job postings/mo, while there are 455 here.

*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 About Equal to the National Average

An average area of this size typically has 9,373* jobs, while there are 9,192 here.



Region	2018 Jobs	2028 Jobs	Change	% Change
● San Diego-Chula Vista-Carlsbad, CA	9,192	10,720	1,529	16.6%
● National Average	9,373	10,813	1,440	15.4%

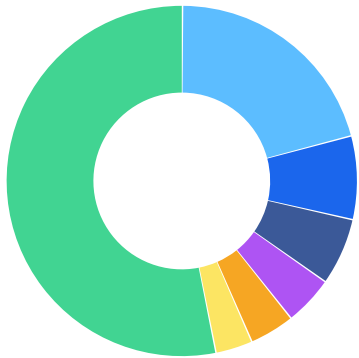
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Regional Breakdown



County	2018 Jobs
San Diego County, CA	9,192

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

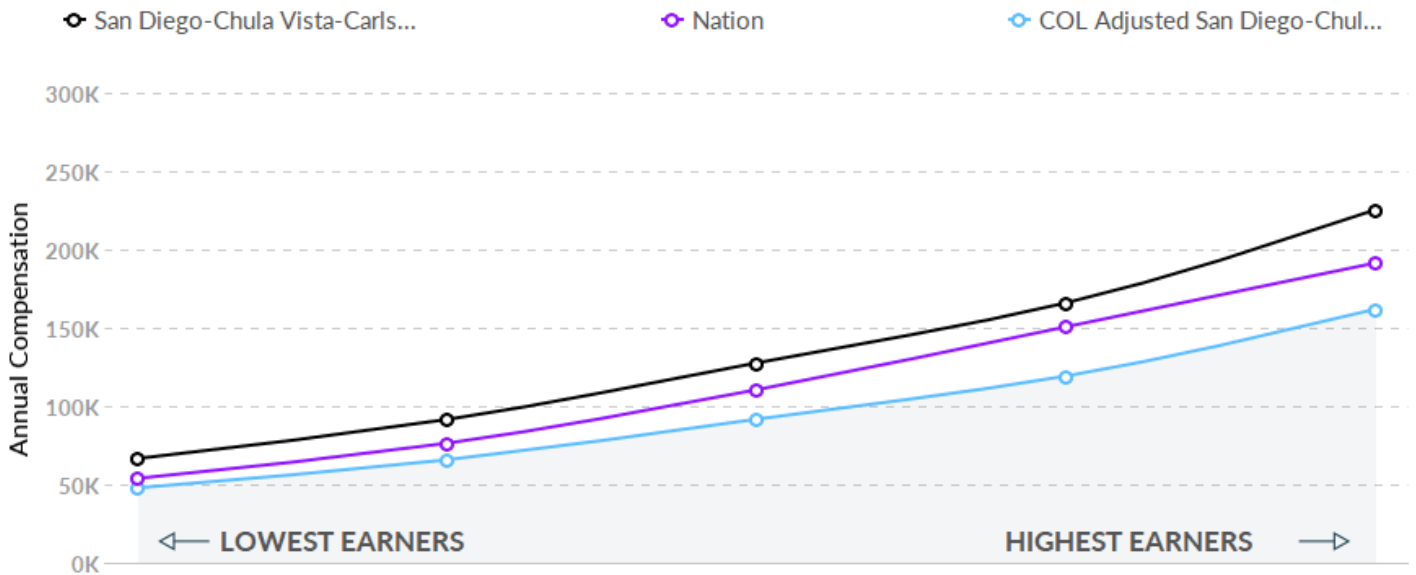


Industry	% of Occupation in Industry (2018)
Computer Systems Design and Related Services	20.8%
Management of Companies and Enterprises	7.7%
Scientific Research and Development Services	6.2%
Federal Government, Military	4.6%
Management, Scientific, and Technical Consulting Services	4.2%
Wired and Wireless Telecommunications Carriers	3.4%
Other	53.2%

Compensation

Regional Compensation Is 16% Higher Than National Compensation

For your occupations, the 2018 median wage in San Diego-Chula Vista-Carlsbad, CA is \$127,530, while the national median wage is \$110,380.



Job Posting Activity



13,189 Unique Job Postings

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



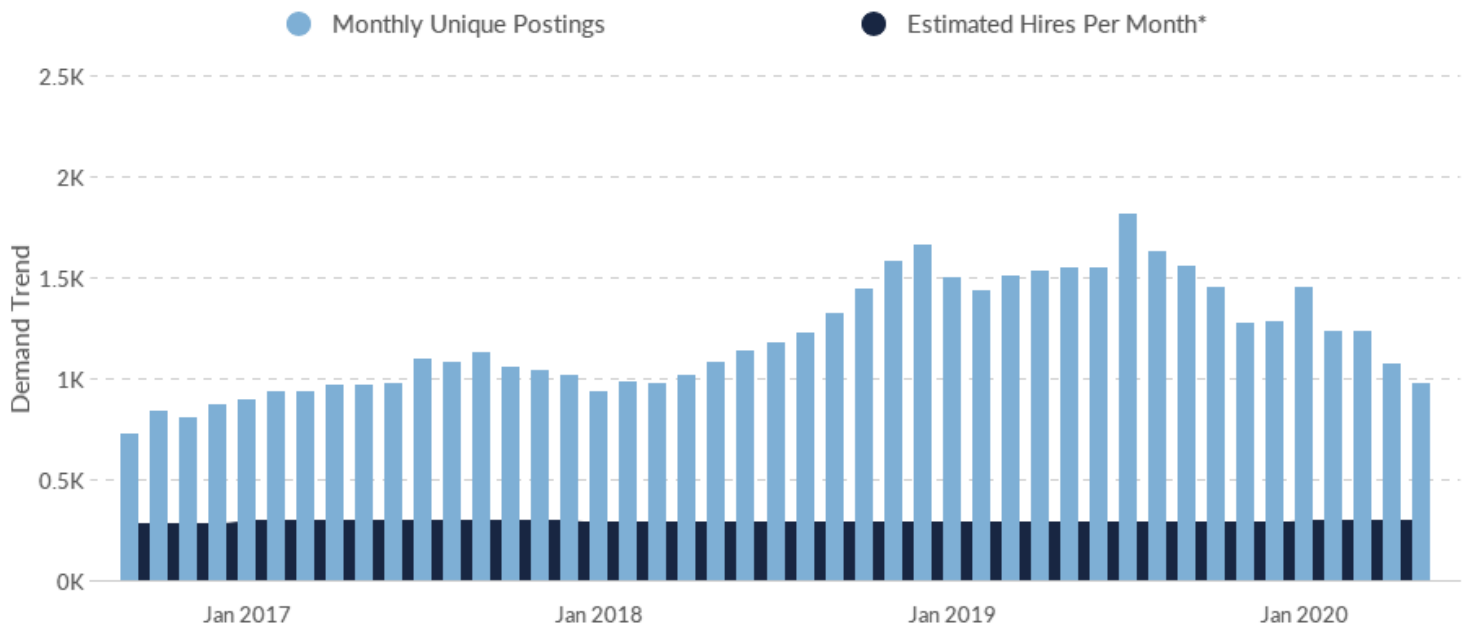
2,008 Employers Competing

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



40 Day Median Duration











Posting duration is 7 days longer than what's typical in the region.



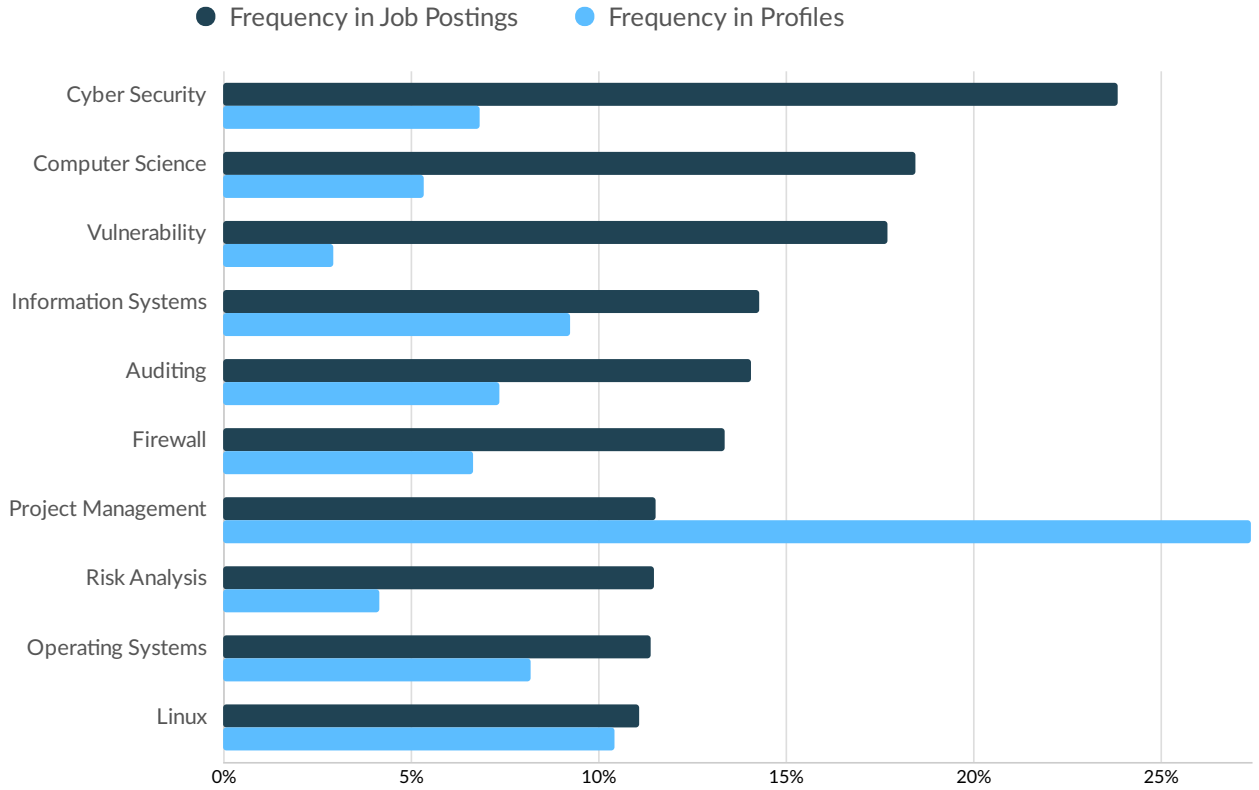
Occupation	Avg Monthly Postings (Jan 2018 - May 2020)	Avg Monthly Hires (Jan 2018 - May 2020)
Information Security Analysts	745	34
Computer and Information Systems Managers	498	165
Computer Network Architects	75	46
Computer Network Support Specialists	13	47

*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
Northrop Grumman Corporation	504 
Booz Allen Hamilton Holding Co...	497 
Oracle Corporation	403 
Teradata Corporation	321 
Deloitte LLP	310 
Kforce Inc.	198 
Qualcomm Incorporated	184 
Viasat, Inc.	179 
General Atomics	163 
Pricewaterhousecoopers LLP	152 

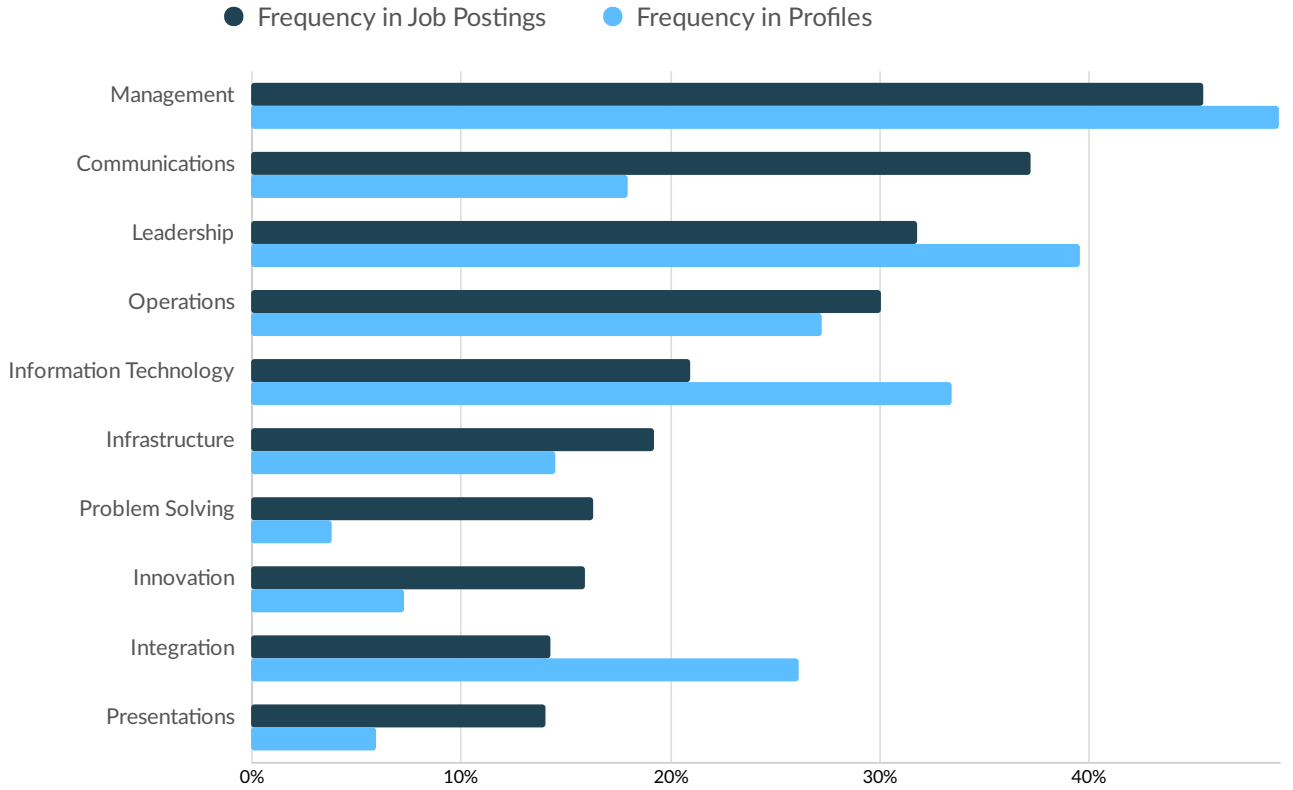
Top Job Titles	Unique Postings
Security Engineers	1,138 
Information Security Analysts	1,070 
Cyber Security Engineers	491 
Program Managers (Management)	413 
Information Security Specialists	363 
Information Technology (IT) Man...	266 
Systems Engineers (Computer a...	239 
Information Security Managers	200 
Systems Managers (Management)	200 
Network Engineers (Computer a...	198 

Top Hard Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Cyber Security	4,220	24%	953	7%
Computer Science	3,264	18%	748	5%
Vulnerability	3,133	18%	408	3%
Information Systems	2,530	14%	1,291	9%
Auditing	2,493	14%	1,027	7%
Firewall	2,364	13%	930	7%
Project Management	2,043	12%	3,821	27%
Risk Analysis	2,036	12%	580	4%
Operating Systems	2,019	11%	1,145	8%
Linux	1,965	11%	1,452	10%

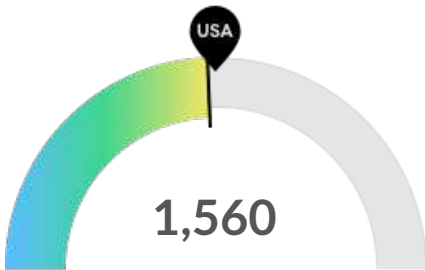
Top Common Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Management	8,043	45%	6,840	49%
Communications	6,577	37%	2,510	18%
Leadership	5,623	32%	5,516	40%
Operations	5,315	30%	3,801	27%
Information Technology	3,704	21%	4,667	33%
Infrastructure	3,408	19%	2,020	14%
Problem Solving	2,892	16%	534	4%
Innovation	2,824	16%	1,014	7%
Integration	2,522	14%	3,648	26%
Presentations	2,486	14%	837	6%

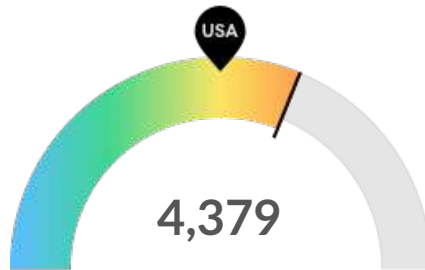
Demographics

Retirement Risk Is About Average, While Overall Diversity Is High



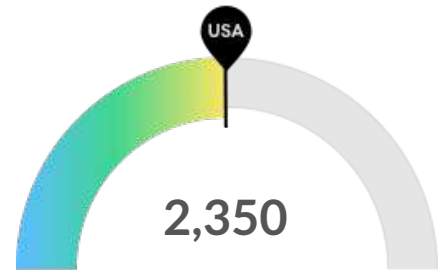
Retiring Soon

Retirement risk is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 1,617* employees 55 or older, while there are 1,560 here.



Racial Diversity

Racial diversity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 3,109* racially diverse employees, while there are 4,379 here.

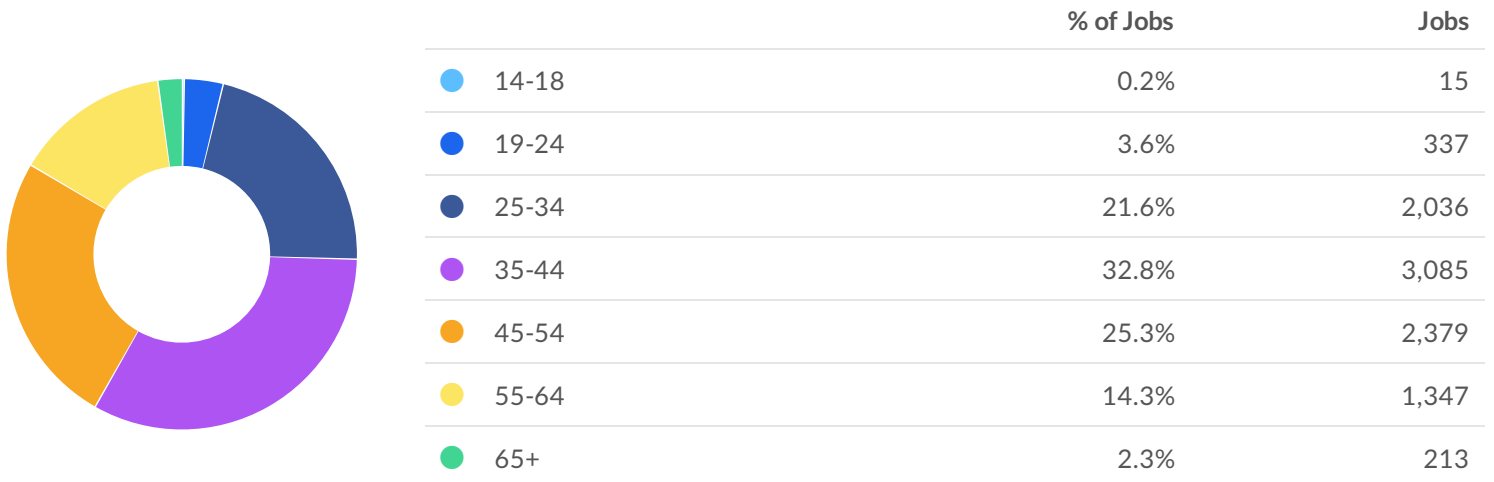


Gender Diversity

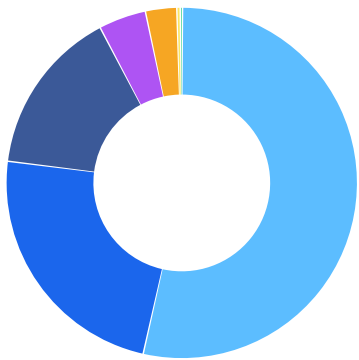
Gender diversity is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 2,364* female employees, while there are 2,350 here.

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Occupation Age Breakdown

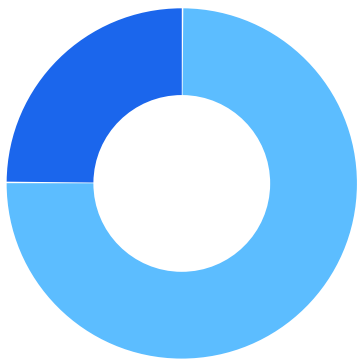


Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
● White	53.5%	5,032
● Asian	23.4%	2,206
● Hispanic or Latino	15.3%	1,442
● Black or African American	4.4%	411
● Two or More Races	2.9%	271
● Native Hawaiian or Other Pacific Islander	0.3%	29
● American Indian or Alaska Native	0.2%	20

Occupation Gender Breakdown



	% of Jobs	Jobs
● Males	75.0%	7,060
● Females	25.0%	2,350

Occupational Programs



19 Programs

Of the programs that can train for this job, 19 have produced completions in the last 5 years.



2,632 Completions (2018)

The completions from all regional institutions for all degree types.



926 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
14.0901	Computer Engineering, General	271
52.1201	Management Information Systems, General	187
11.1003	Computer and Information Systems Security/Information As...	118
11.0201	Computer Programming/Programmer, General	89
11.1005	Information Technology Project Management	83
11.0901	Computer Systems Networking and Telecommunications	80
11.0801	Web Page, Digital/Multimedia and Information Resources D...	77
11.0103	Information Technology	65
11.0101	Computer and Information Sciences, General	51

Top Schools	Completions (2018)
University of California-San Diego	1,055 
National University	328 
San Diego State University	305 
Ashford University	151 
California State University-San Marcos	140 
Palomar College	94 
California College San Diego	75 
University of San Diego	65 
Southwestern College	64 
San Diego Mesa College	56 

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.