Emsi Occupation Overview

Chemists and Materials Scientists
in San Diego-Chula Vista-Carlsbad, CA

Chemists and Materials Scientists 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

1 Occupation

19-2030	Chemists and Materials Scientists

1 MSA

41740	San Diego-Chula Vista-Carlsbad, CA

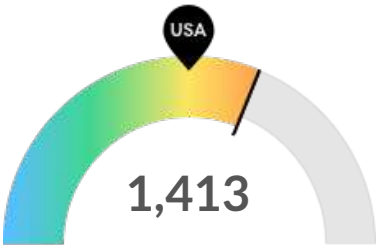
Class of Worker

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

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

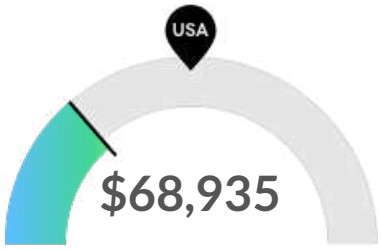
Executive Summary

Aggressive Job Posting Demand Over a Deep Supply of Regional Jobs



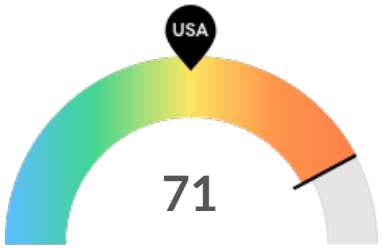
Jobs (2018)

San Diego-Chula Vista-Carlsbad, CA is a hotspot for this kind of job. The national average for an area this size is 1,003* employees, while there are 1,413 here.



Compensation

Earnings are low in San Diego-Chula Vista-Carlsbad, CA. The national median salary for Chemists and Materials Scientists is $78,480, compared to $68,935 here.



Job Posting Demand

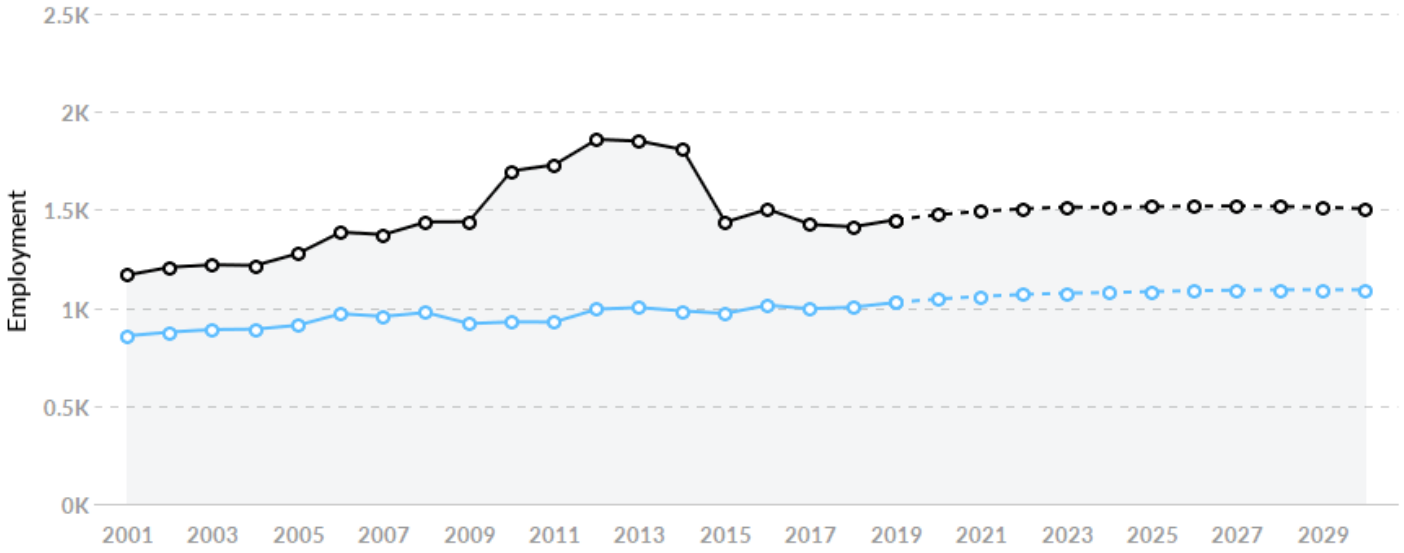
Job posting activity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 26* job postings/mo, while there are 71 here.

*National average values are derived by taking the national value for Chemists and Materials Scientists 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 1,003* jobs, while there are 1,413 here. This higher than average supply of jobs may make it easier for workers in this field to find employment in your area.



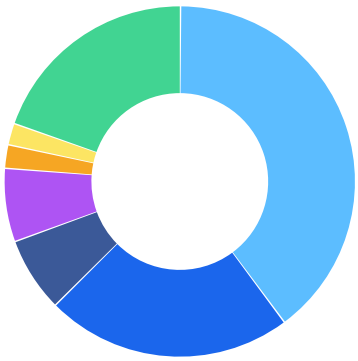
	Region	2018 Jobs	2028 Jobs	Change	% Change
●	San Diego-Chula Vista-Carlsbad, CA	1,413	1,517	103	7.3%
●	National Average	1,003	1,092	89	8.9%

*National average values are derived by taking the national value for Chemists and Materials Scientists 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	1,413

Most Jobs are Found in the Scientific Research and Development Services Industry Sector

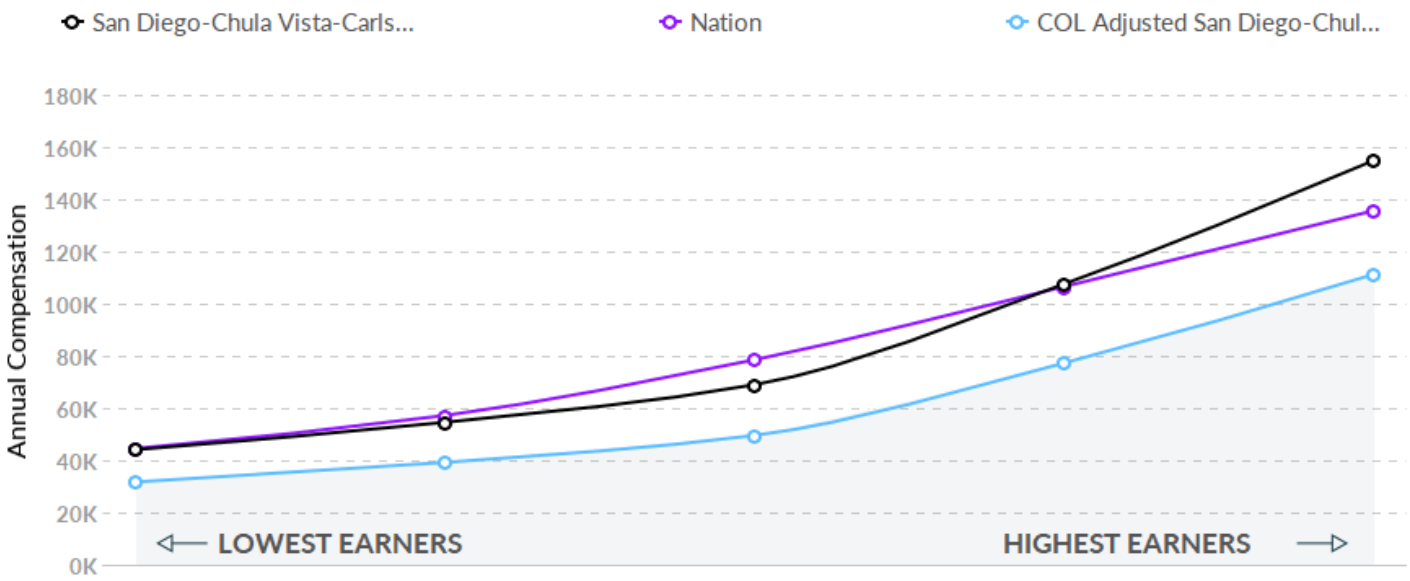


Industry	% of Occupation in Industry (2018)
Scientific Research and Development Services	39.8%
Pharmaceutical and Medicine Manufacturing	22.7%
Federal Government, Civilian	6.9%
Architectural, Engineering, and Related Services	6.8%
Local Government, Excluding Education and Hospitals	2.2%
Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	2.0%
Other	19.7%

Compensation

Regional Compensation Is 12% Lower Than National Compensation

For Chemists and Materials Scientists, the 2018 median wage in San Diego-Chula Vista-Carlsbad, CA is $68,935, while the national median wage is $78,480.



Job Posting Activity

2,059 Unique Job Postings

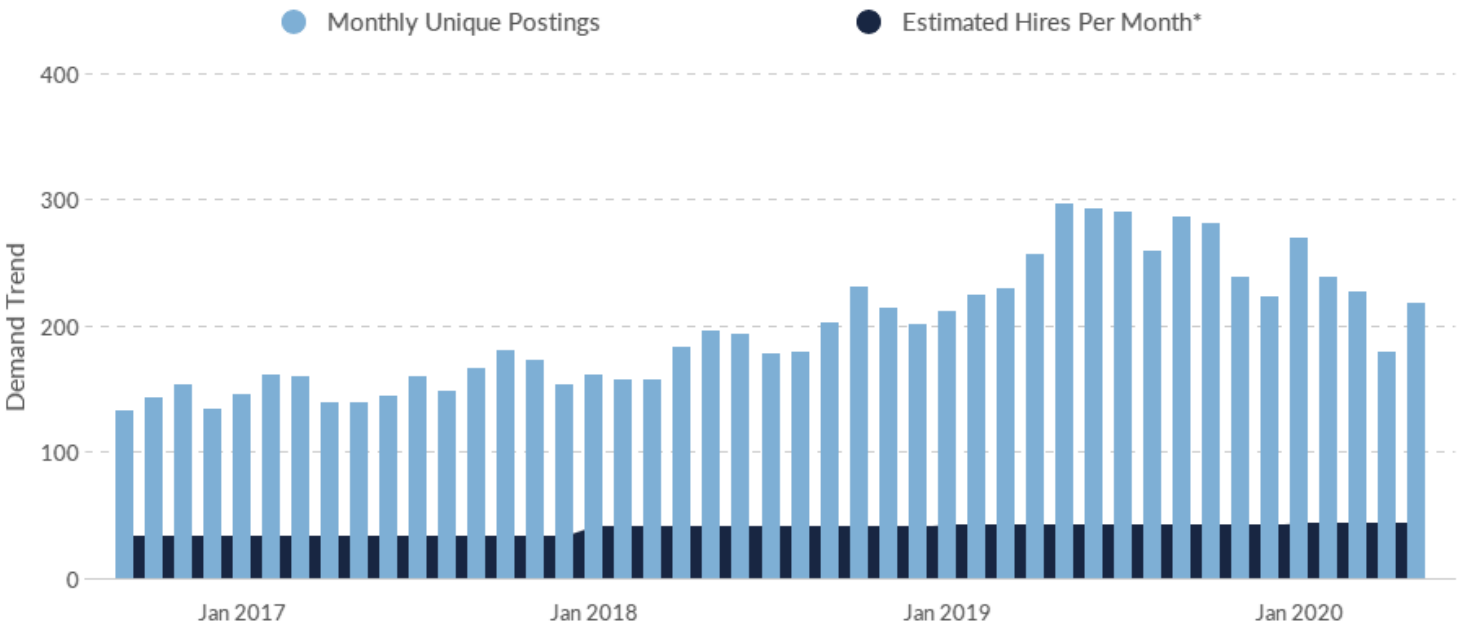
The number of unique postings for this job from Jan 2018 to May 2020.

342 Employers Competing

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

42 Day Median Duration

Posting duration is 9 days longer than what's typical in the region.



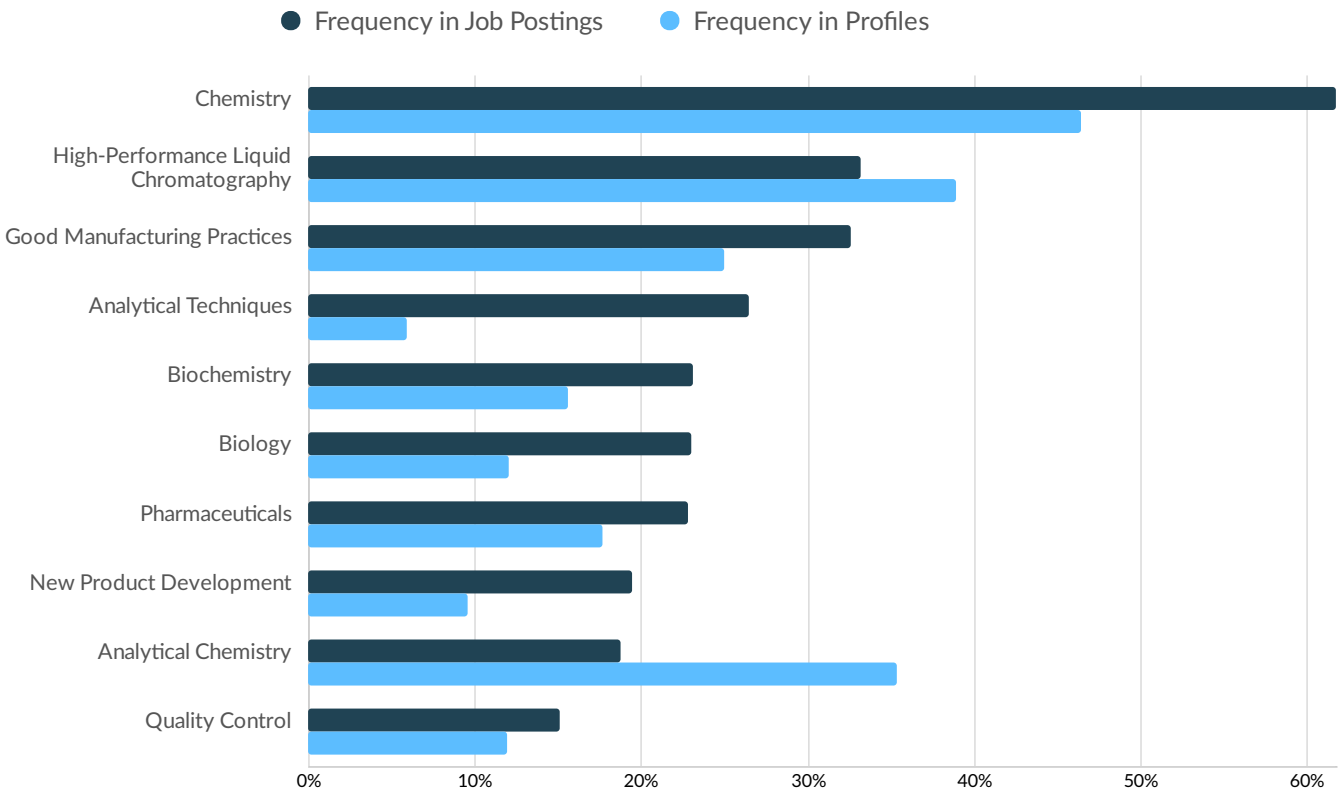
Occupation	Avg Monthly Postings (Jan 2018 - May 2020)	Avg Monthly Hires (Jan 2018 - May 2020)
Chemists and Materials Scientists	223	43

*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
Kelly Services, Inc.	174
Varsity Tutors LLC	104
Aerotek, Inc.	103
Catalent, Inc.	83
Biospace, Inc	70
Neurocrine Biosciences, Inc.	60
Johnson & Johnson	50
Illumina, Inc.	42
Hewlett-Packard Company	33
Apex Systems, Inc.	29

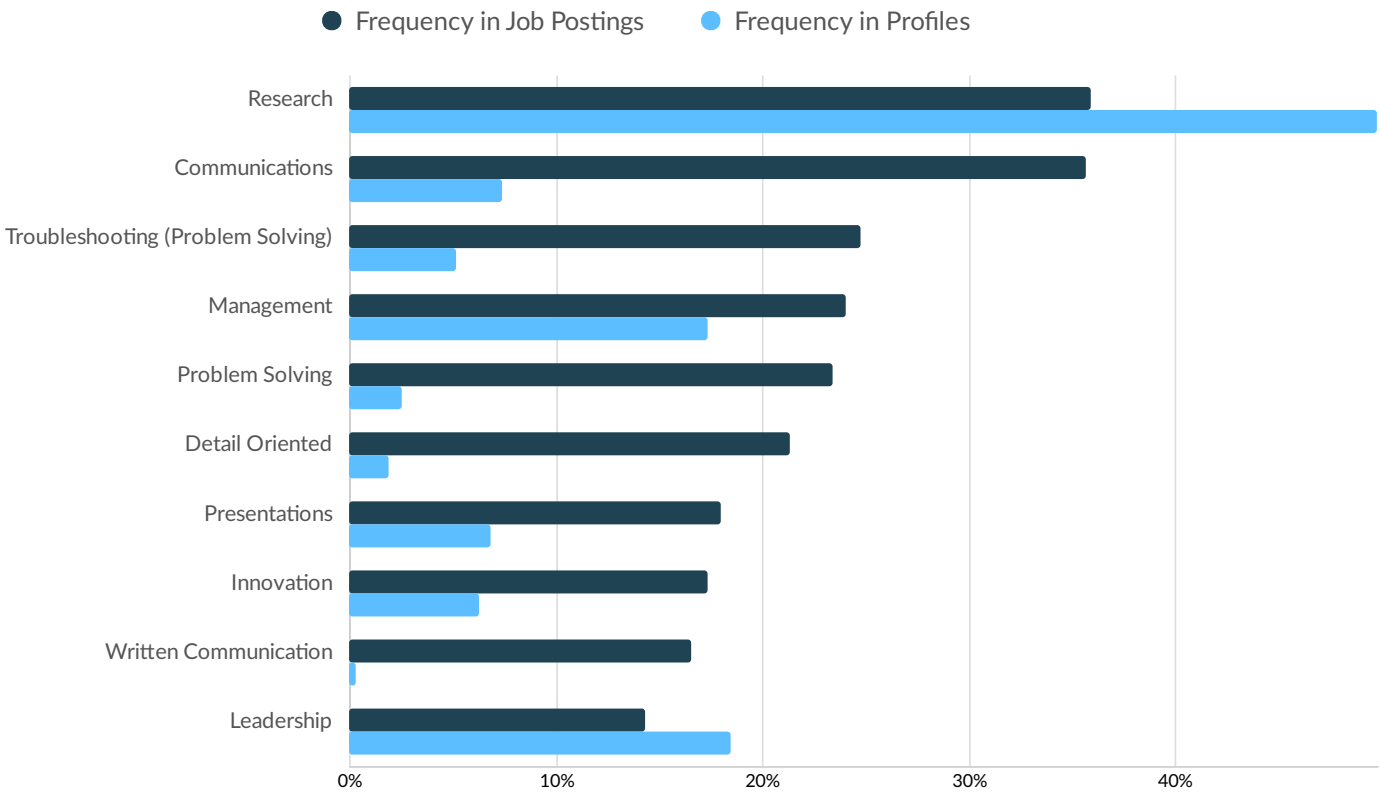
Top Job Titles	Unique Postings
Chemists	651
Analytical Scientists	163
Development Scientists	105
Senior Scientists	90
Formulation Chemists	80
Product Development Scientists	78
Tutors	72
Research Scientists	66
Process Development Scientists	60
Research and Development (R&...	57

Top Hard Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Chemistry	1,739	62%	559	46%
High-Performance Liquid Chromatography	936	33%	469	39%
Good Manufacturing Practices	919	33%	301	25%
Analytical Techniques	746	26%	71	6%
Biochemistry	652	23%	188	16%
Biology	647	23%	145	12%
Pharmaceuticals	642	23%	213	18%
New Product Development	547	19%	115	10%
Analytical Chemistry	530	19%	426	35%
Quality Control	426	15%	144	12%

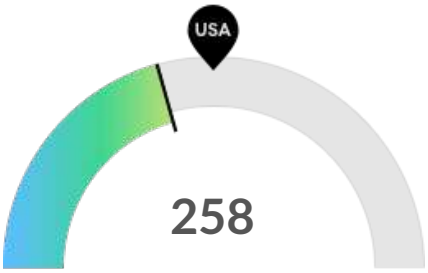
Top Common Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Research	1,012	36%	600	50%
Communications	1,005	36%	89	7%
Troubleshooting (Problem Solving)	699	25%	62	5%
Management	678	24%	209	17%
Problem Solving	660	23%	31	3%
Detail Oriented	602	21%	23	2%
Presentations	508	18%	83	7%
Innovation	490	17%	76	6%
Written Communication	466	17%	4	0%
Leadership	404	14%	223	19%

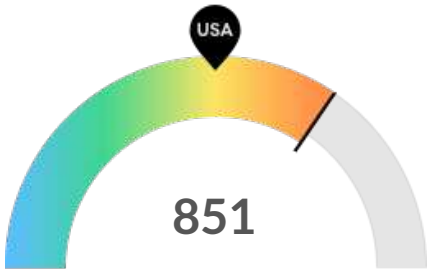
Demographics

Retirement Risk Is Low, While Overall Diversity Is High



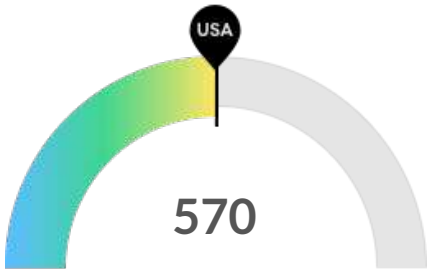
Retiring Soon

Retirement risk is low in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 336* employees 55 or older, while there are 258 here.



Racial Diversity

Racial diversity is high in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 502* racially diverse employees, while there are 851 here.



Gender Diversity

Gender diversity is about average in San Diego-Chula Vista-Carlsbad, CA. The national average for an area this size is 567* female employees, while there are 570 here.

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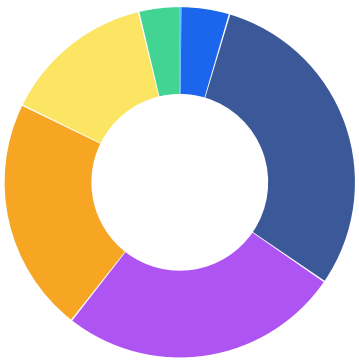
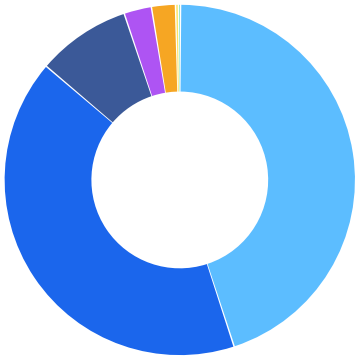
Occupation Age Breakdown



	% of Jobs	Jobs
14-18	0.0%	0
19-24	4.5%	65
25-34	30.0%	435
35-44	26.0%	377
45-54	21.7%	314
55-64	14.0%	202
65+	3.8%	56

Occupation Race/Ethnicity Breakdown



	% of Jobs	Jobs
Asian	44.9%	651
White	41.2%	598
Hispanic or Latino	8.6%	125
Black or African American	2.5%	37
Two or More Races	2.2%	32
Native Hawaiian or Other Pacific Islander	0.3%	4
American Indian or Alaska Native	0.2%	3

Occupation Gender Breakdown

	% of Jobs	Jobs
Males	60.7%	879
Females	39.3%	570

Occupational Programs

4 Programs

Of the programs that can train for this job, 4 have produced completions in the last 5 years.

462 Completions (2018)

The completions from all regional institutions for all degree types.

163 Openings (2018)

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

CIP Code	Top Programs	Completions (2018)
40.0501	Chemistry, General	295
40.0599	Chemistry, Other	166
40.0508	Chemical Physics	1

Top Schools	Completions (2018)
University of California-San Diego	306
San Diego State University	74
San Diego Miramar College	28
Grossmont College	13
University of San Diego	11
California State University-San Marcos	11
San Diego Mesa College	9
Cuyamaca College	4
Point Loma Nazarene University	3
Southwestern College	2

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.