Program Overview
11 Programs

Lightcast Q3 2023 Data Set

August 2023

San Mateo County Community College District

Parameters

Completions Year: 2020

Jobs Timeframe: 2022 - 2029

Job Postings Timeframe: Jun 2021 - Jul 2023

Programs:
11 items selected. See Appendix A for details.

Regions:

Code	Description	Code	Description
6001	Alameda County, CA	6081	San Mateo County, CA
6013	Contra Costa County, CA	6085	Santa Clara County, CA
6075	San Francisco County, CA		

Education Level:

Description
Associate degree

Tuition Type: Tuition & Fees

Graduate Status: Undergraduate

Residency: In-State

15	442	Completions Distribution
Institutions	**Completions**	
7% Growth (2016-2020)	150% Growth (2016-2020)	

Average: 29.5

1 ———————————————— 129

Median: 16

Program Overview

442
Completions

		Completions (2020)	% Completions	Institutions (2020)	% Institutions
●	All Programs	442	100%	15	100%
●	Distance Offered Programs	136	31%	3	20%
●	Non-Distance Offered Programs	306	69%	13	87%

Market Share by Institution Type
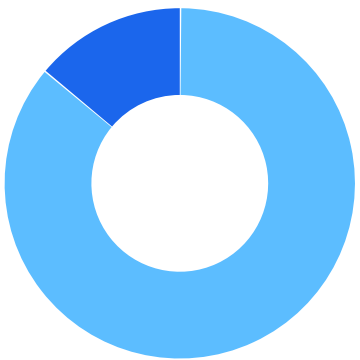
Institution Type		Completions (2020)	Market Share
●	Public, 2-year	380	86.0%
●	Public, 4-year or above	62	14.0%

Market Share by Program

Program	Completions (2020)	Market Share
● Computer Science (11.0701)	265	60.0%
● Computer Programming/Programmer, General (11.0201)	177	40.0%

Completions by Institution

Institution	Associate's Degree Completions (2020)	Growth % YOY (2020)	Market Share (2020)	IPEDS Tuition & Fees (2020)	Completions Trend (2016-2020)
Diablo Valley College	129	17.3%	29.2%	$1,312	
De Anza College	94	46.9%	21.3%	$1,561	
Foothill College	62	19.2%	14.0%	$1,563	
City College of San Francisco	47	-9.6%	10.6%	$1,165	
College of San Mateo	20	-16.7%	4.5%	$1,434	
Gavilan College	18	-28.0%	4.1%	$1,166	
Laney College	16	14.3%	3.6%	$1,167	
Ohlone College	16	14.3%	3.6%	$1,196	
Chabot College	15	7.1%	3.4%	$1,150	
Las Positas College	7	75.0%	1.6%	$1,168	

Regional Trends
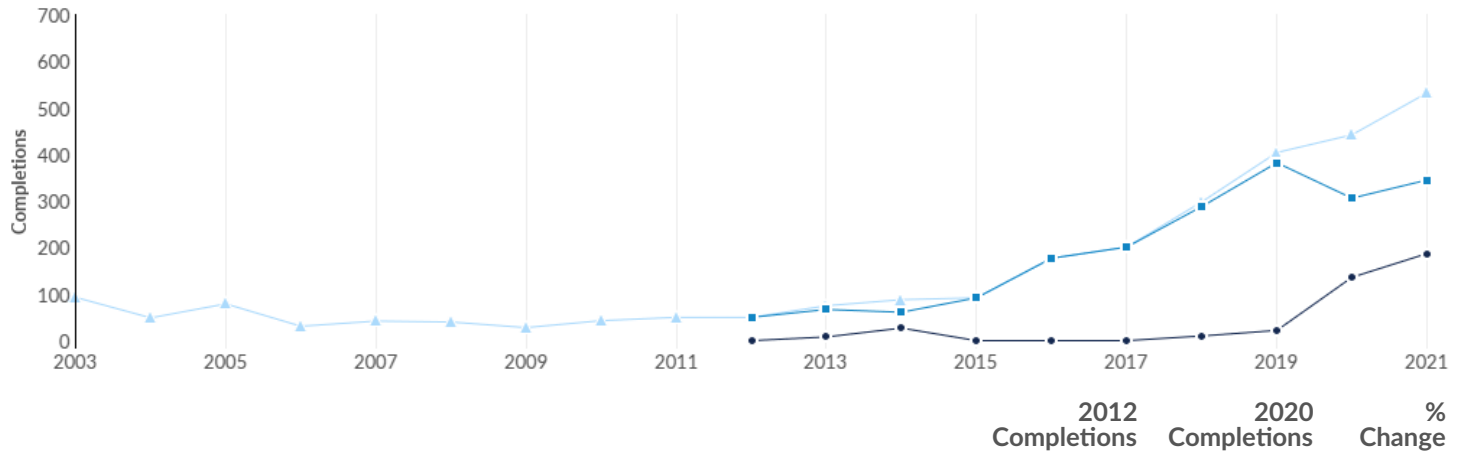
		2012 Completions	2020 Completions	% Change
●	Distance Offered Programs	0	136	+Insf. Data
■	Non-Distance Offered Programs	50	306	+512.0%
▲	All Programs	50	442	+784.0%

Regional Completions by Award Level

	Award Level	Completions (2020)	Percent	
●	Associate's Degree	442	100.0%	▬▬▬▬▬

Similar Programs

77	9,100
Programs (2020)	Completions (2020)

CIP Code	Program	Associate's Degree Completions (2020)
24.0101	Liberal Arts and Sciences/Liberal Studies	2,419
52.0201	Business Administration and Management, General	2,329
30.0101	Biological and Physical Sciences	1,682
27.0101	Mathematics, General	689
26.0101	Biology/Biological Sciences, General	684
52.0101	Business/Commerce, General	236
40.0801	Physics, General	160
52.9999	Business, Management, Marketing, and Related Support Services, Other	143
14.0102	Pre-Engineering	91
50.0409	Graphic Design	75

Target Occupations

Filtered by the proportion of the national workforce in these occupations with an Associate's degree

34,286	+15.1%	$75.09/hr $156.2K/yr	3,475
Jobs (2022)*	% Change (2022-2029)*	Median Earnings Nation: $47.08/hr; $97.9K/yr	Annual Openings*
138% *above* National average*	Nation: +13.6%*		

Occupation	2022 Jobs*	Annual Openings*	Median Earnings	Growth (2022 - 2029)*	Employment Concentration (2022)*
Software Developers	6,035	644	$87.93/hr	+23.21%	4.30
Computer Occupations, All Other	4,630	403	$70.41/hr	+8.88%	3.20
Computer and Information Systems Managers	3,500	347	$104.74/hr	+14.60%	3.74
Computer User Support Specialists	3,107	345	$37.30/hr	+18.60%	1.23
Computer Systems Analysts	1,790	172	$68.33/hr	+14.69%	1.92
Electrical and Electronic Engineering Technologists and Technicians	1,766	201	$37.75/hr	+2.32%	2.55
Management Analysts	1,759	191	$53.37/hr	+9.27%	1.61
Network and Computer Systems Administrators	1,733	157	$62.39/hr	+13.04%	1.41
Software Quality Assurance Analysts and Testers	1,339	140	$68.60/hr	+18.82%	4.01
Computer Network Architects	1,335	110	$81.86/hr	+11.46%	2.10
Computer Hardware Engineers	1,248	95	$80.53/hr	+7.37%	8.23
Web and Digital Interface Designers	1,000	117	$64.62/hr	+18.60%	4.17
Postsecondary Teachers	879	92	$51.47/hr	+9.22%	1.27
Information Security Analysts	792	102	$72.17/hr	+32.32%	2.04
Computer Network Support Specialists	700	80	$42.93/hr	+20.57%	1.16
Computer Programmers	653	48	$63.77/hr	+0.61%	2.45
Data Scientists	508	61	$72.49/hr	+27.36%	3.71
Web Developers	385	45	$53.07/hr	+24.16%	1.64

Sales Engineers	379	44	$70.76/hr	+6.07%	4.14
Natural Sciences Managers	247	26	$103.57/hr	+14.57%	3.32
Database Administrators	189	19	$61.74/hr	+17.99%	1.43
Database Architects	164	17	$82.76/hr	+20.12%	1.61
Computer and Information Research Scientists	93	10	$108.28/hr	+23.66%	5.14
Statisticians	51	6	$76.06/hr	+31.37%	1.81
Mathematical Science Occupations, All Other	<10	Insf. Data	$50.82/hr	+Insf. Data	Insf. Data

Job Postings Summary

17,603	3 : 1	2,469	27 days
Unique Postings	**Posting Intensity**	**Employers Competing**	**Median Posting Duration**
56,691 Total Postings		86,762 Total Employers	Regional Average: 30 days
	Regional Average: 4 : 1		
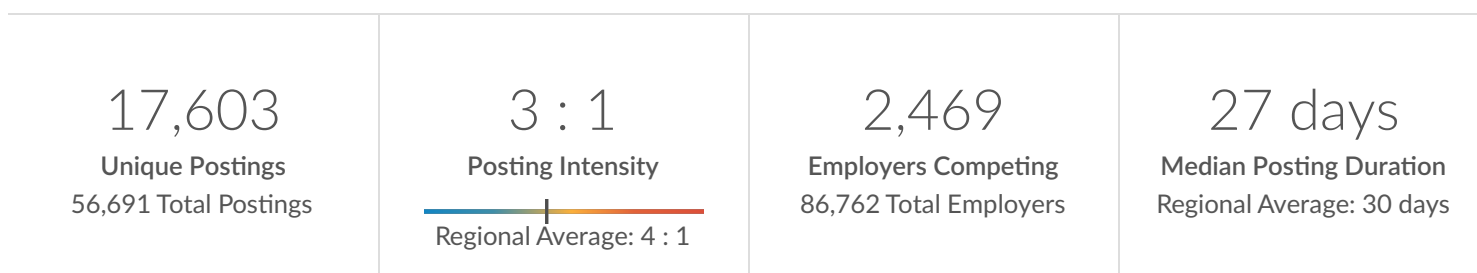
There were **56,691** total job postings for your selection from June 2021 to July 2023, of which **17,603** were unique. These numbers give us a Posting Intensity of **3-to-1**, meaning that for every 3 postings there is 1 unique job posting.

This is close to the Posting Intensity for all other occupations and companies in the region (4-to-1), indicating that they are putting average effort toward hiring for this position.

Top Companies Posting

Company	Total/Unique (Jun 2021 - Jul 2023)	Posting Intensity		Median Posting Duration
Stanford University	9,656 / 2,316	4 : 1		26 days
Revature	6,833 / 1,339	5 : 1		26 days
Accenture	2,340 / 1,185	2 : 1		30 days
San Mateo County Community College District	461 / 309	1 : 1		31 days
Randstad	608 / 285	2 : 1		25 days
Walmart	992 / 274	4 : 1		23 days
Contra Costa Community College	611 / 268	2 : 1		42 days
National Security Agency	403 / 236	2 : 1		9 days
West Valley-Mission Community College District	334 / 227	1 : 1		36 days
City & County of San Francisco	715 / 161	4 : 1		33 days

Top Posted Job Titles

Job Title	Total/Unique (Jun 2021 - Jul 2023)	Posting Intensity		Median Posting Duration
Clinical Research Coordinators	7,577 / 1,575	5 : 1		25 days
Test Technicians	1,291 / 315	4 : 1		32 days
Oncology Clinical Research Coordinators	795 / 293	3 : 1		27 days
Software Developers	781 / 277	3 : 1		25 days
Software Engineers	1,265 / 252	5 : 1		27 days
Java Developers	724 / 197	4 : 1		25 days
Desktop Support Technicians	527 / 181	3 : 1		28 days
IT Support Specialists	530 / 174	3 : 1		34 days
Electronics Technicians	422 / 147	3 : 1		26 days
Systems Administrators	421 / 134	3 : 1		27 days

Top Specialized Skills

Legend: ● Frequency in Job Postings ● Frequency in Profiles
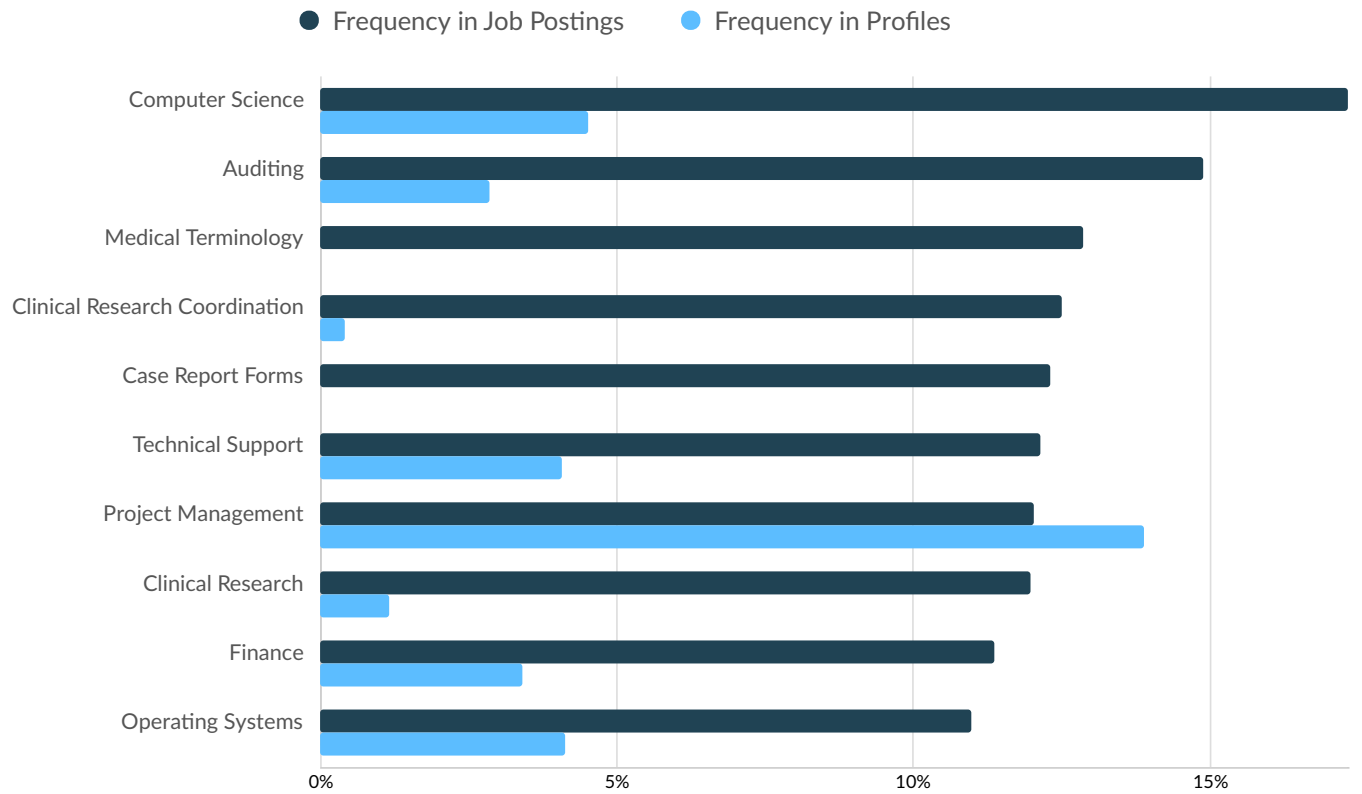
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Computer Science	3,053	17%	29,474	5%
Auditing	2,623	15%	18,580	3%
Medical Terminology	2,267	13%	0	0%
Clinical Research Coordination	2,205	13%	2,640	0%
Case Report Forms	2,169	12%	0	0%
Technical Support	2,140	12%	26,553	4%
Project Management	2,118	12%	90,826	14%
Clinical Research	2,112	12%	7,634	1%
Finance	2,004	11%	22,353	3%
Operating Systems	1,934	11%	27,064	4%

Top Common Skills

● Frequency in Job Postings ● Frequency in Profiles
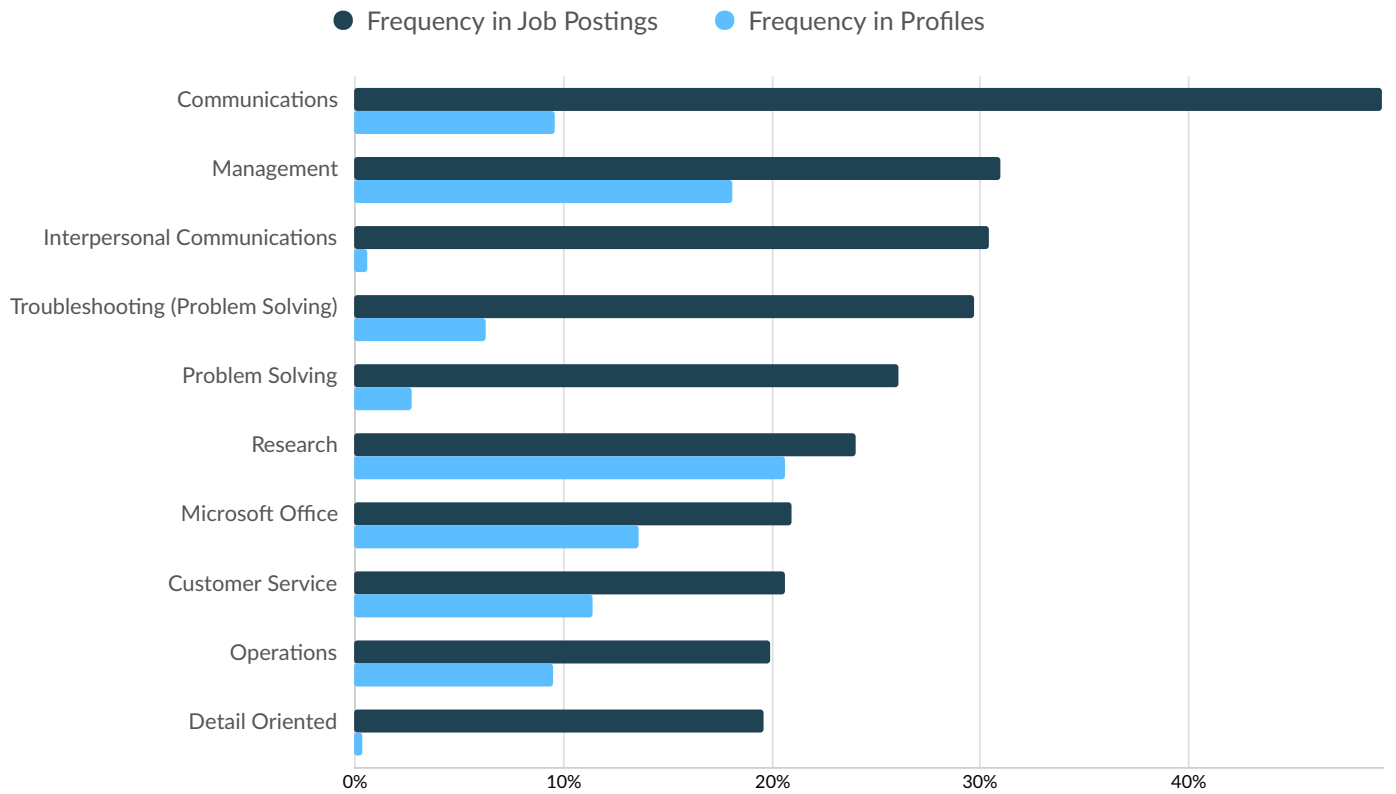
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Communications	8,678	49%	62,692	10%
Management	5,455	31%	118,554	18%
Interpersonal Communications	5,359	30%	3,910	1%
Troubleshooting (Problem Solving)	5,238	30%	41,117	6%
Problem Solving	4,593	26%	18,052	3%
Research	4,235	24%	134,705	21%
Microsoft Office	3,692	21%	88,850	14%
Customer Service	3,643	21%	74,829	11%
Operations	3,506	20%	62,311	10%
Detail Oriented	3,462	20%	2,779	0%

Top Software Skills

● Frequency in Job Postings   ● Frequency in Profiles
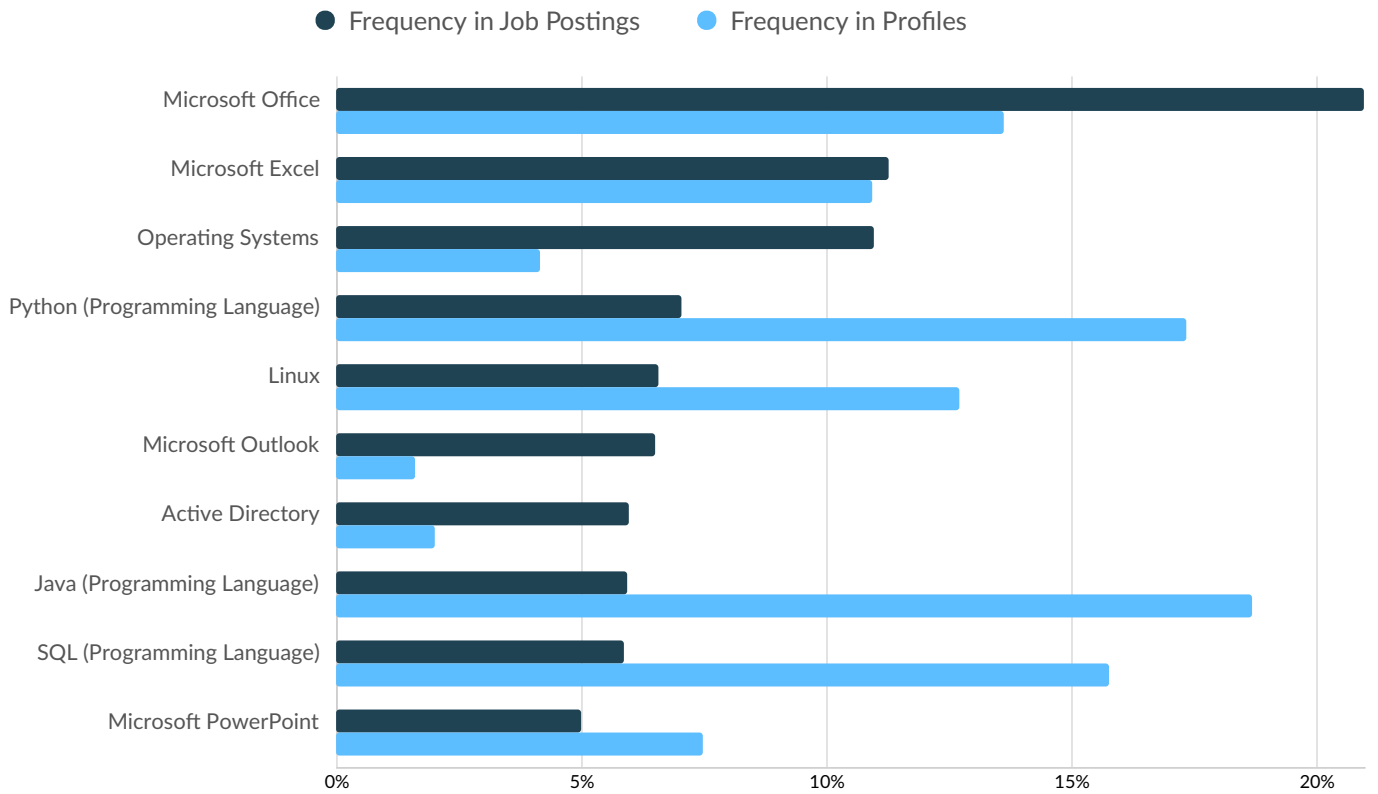
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Microsoft Office	3,692	21%	88,850	14%
Microsoft Excel	1,985	11%	71,411	11%
Operating Systems	1,934	11%	27,064	4%
Python (Programming Language)	1,241	7%	113,203	17%
Linux	1,155	7%	83,069	13%
Microsoft Outlook	1,147	7%	10,623	2%
Active Directory	1,054	6%	13,105	2%
Java (Programming Language)	1,044	6%	121,986	19%
SQL (Programming Language)	1,032	6%	102,957	16%
Microsoft PowerPoint	879	5%	48,846	7%

Top Qualifications

Qualification	Postings with Qualification
Valid Driver's License	1,178
CompTIA A+	690
Security Clearance	440
CompTIA Network+	404
Microsoft Certified Professional	380
Registered Nurse (RN)	350
Cisco Certified Network Associate	331
Microsoft Certified Systems Engineer	277
Project Management Professional Certification	179
CompTIA Security+	166

Appendix A - Programs

Code	Description
11.0201	Computer Programming/Programmer, General
11.0202	Computer Programming, Specific Applications
11.0203	Computer Programming, Vendor/Product Certification
11.0204	Computer Game Programming
11.0205	Computer Programming, Specific Platforms
11.0299	Computer Programming, Other

Code	Description
11.0501	Computer Systems Analysis/Analyst
11.0701	Computer Science
30.7001	Data Science, General
30.7101	Data Analytics, General
30.7103	Data Visualization

Appendix B - Data Sources and Calculations

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.

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 are also affected by county-level Emsi earnings by industry.

Lightcast Job Postings

Job postings are collected from various sources and processed/enriched to provide information such as standardized company name, occupation, skills, and geography.

State Data Sources

This report uses state data from the following agencies: California Employment Development Department