

Program Overview

4 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:

Code	Description
11.0201	Computer Programming/Programmer, General
15.1204	Computer Software Technology/Technician

Code	Description
30.7001	Data Science, General
30.7101	Data Analytics, General

Regions:

Code	Description
6001	Alameda County, CA
6013	Contra Costa County, CA
6075	San Francisco County, CA

Code	Description
6081	San Mateo County, CA
6085	Santa Clara County, CA

Education Level:

Description
Associate degree

Tuition Type: Tuition & Fees

Graduate Status: Undergraduate

Residency: In-State

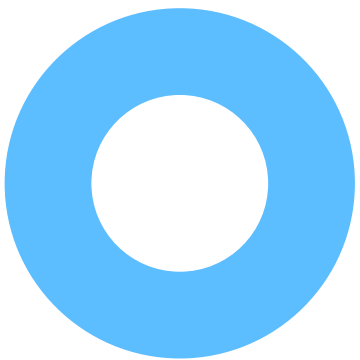
<p>9</p> <p>Institutions</p> <p>50% Growth (2016-2020)</p>	<p>177</p> <p>Completions</p> <p>121% Growth (2016-2020)</p>	<p>Completions Distribution</p> <p>Average: 19.7</p> <p>1 ----- 129</p> <p>Median: 4</p>
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Program Overview



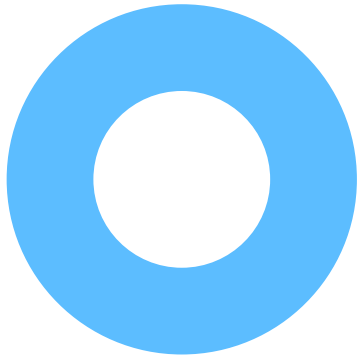
	Completions (2020)	% Completions	Institutions (2020)	% Institutions
● All Programs	177	100%	9	100%
● Distance Offered Programs	136	77%	3	33%
● Non-Distance Offered Programs	41	23%	6	67%

Market Share by Institution Type



Institution Type	Completions (2020)	Market Share
● Public, 2-year	177	100.0%

Market Share by Program

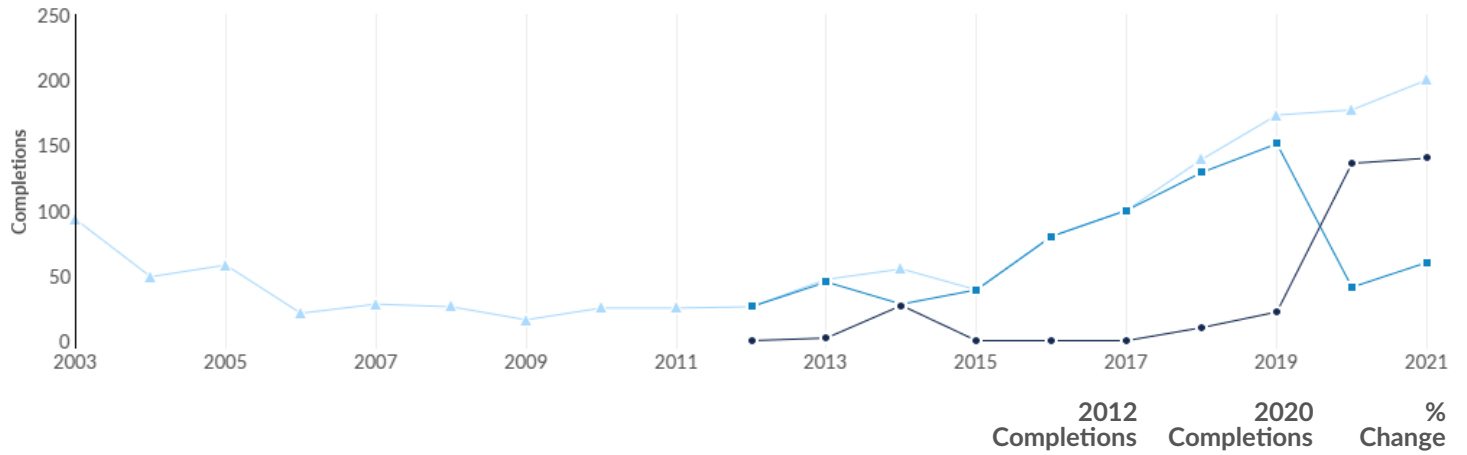


Program	Completions (2020)	Market Share
Computer Programming/Programmer, General (11.0201)	177	100.0%

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%	72.9%	\$1,312	
Laney College	16	14.3%	9.0%	\$1,167	
Gavilan College	14	-36.4%	7.9%	\$1,166	
De Anza College	8	60.0%	4.5%	\$1,561	
San Jose City College	4	-69.2%	2.3%	\$1,362	
College of San Mateo	3	-50.0%	1.7%	\$1,434	
Ohlone College	1	0.0%	0.6%	\$1,196	
Berkeley City College	1	0.0%	0.6%	\$1,167	
Las Positas College	1	0.0%	0.6%	\$1,168	

Regional Trends



	2012 Completions	2020 Completions	% Change
● Distance Offered Programs	0	136	+Inf. Data
■ Non-Distance Offered Programs	26	41	+57.7%
▲ All Programs	26	177	+580.8%

Regional Completions by Award Level



Award Level	Completions (2020)	Percent
● Associate's Degree	177	100.0%

Similar Programs

66
Programs (2020)

9,222
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
11.0701	Computer Science	265
52.0101	Business/Commerce, General	236
40.0801	Physics, General	160
52.9999	Business, Management, Marketing, and Related Support Services, Other	143
50.0409	Graphic Design	75


Target Occupations

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

<p>23,927</p> <p>Jobs (2022)*</p> <p>176% <i>above</i> National average*</p>	<p>+15.9%</p> <p>% Change (2022-2029)*</p> <p>Nation: +15.6%*</p>	<p>\$77.96/hr</p> <p>\$162.2K/yr</p> <p>Median Earnings</p> <p>Nation: \$49.65/hr;</p> <p>\$103.3K/yr</p>	<p>2,421</p> <p>Annual Openings*</p>
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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 Systems Analysts	1,790	172	\$68.33/hr	+14.69%	1.92
Management Analysts	1,759	191	\$53.37/hr	+9.27%	1.61
Software Quality Assurance Analysts and Testers	1,339	140	\$68.60/hr	+18.82%	4.01
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
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
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










Job Postings Summary

<p>12,183 Unique Postings 39,488 Total Postings</p>	<p>3 : 1 Posting Intensity  Regional Average: 4 : 1</p>	<p>1,310 Employers Competing 86,762 Total Employers</p>	<p>27 days Median Posting Duration Regional Average: 30 days</p>
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There were 39,488 total job postings for your selection from June 2021 to July 2023, of which 12,183 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

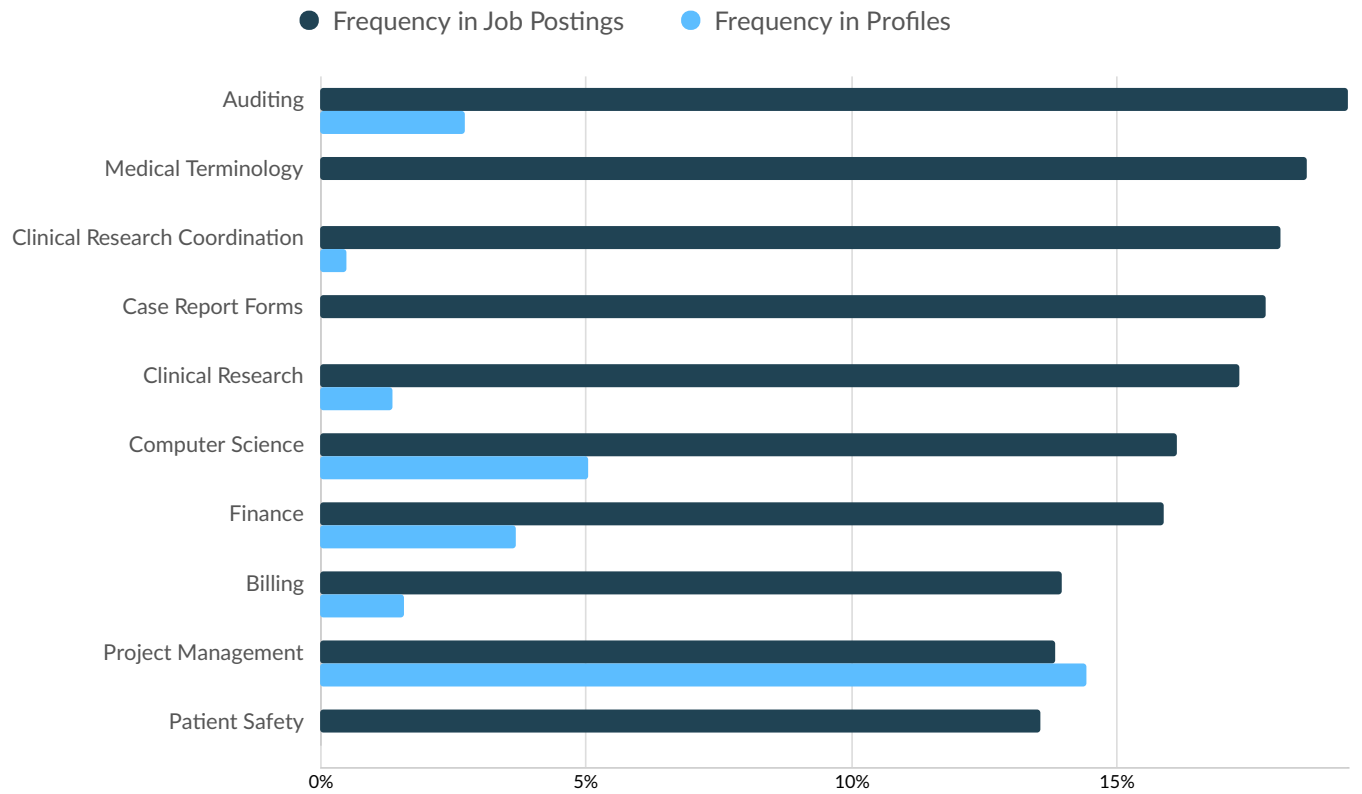
Company	Total/Unique (Jun 2021 - Jul 2023)	Posting Intensity	Median Posting Duration
Stanford University	9,592 / 2,296	4 : 1 	26 days
Revature	6,326 / 1,229	5 : 1 	26 days
Accenture	2,131 / 1,074	2 : 1 	30 days
San Mateo County Community College District	449 / 302	1 : 1 	23 days
Walmart	972 / 267	4 : 1 	23 days
Contra Costa Community College	497 / 211	2 : 1 	45 days
West Valley-Mission Community College District	291 / 196	1 : 1 	36 days
National Security Agency	287 / 170	2 : 1 	9 days
Randstad	363 / 167	2 : 1 	25 days



Top Posted Job Titles

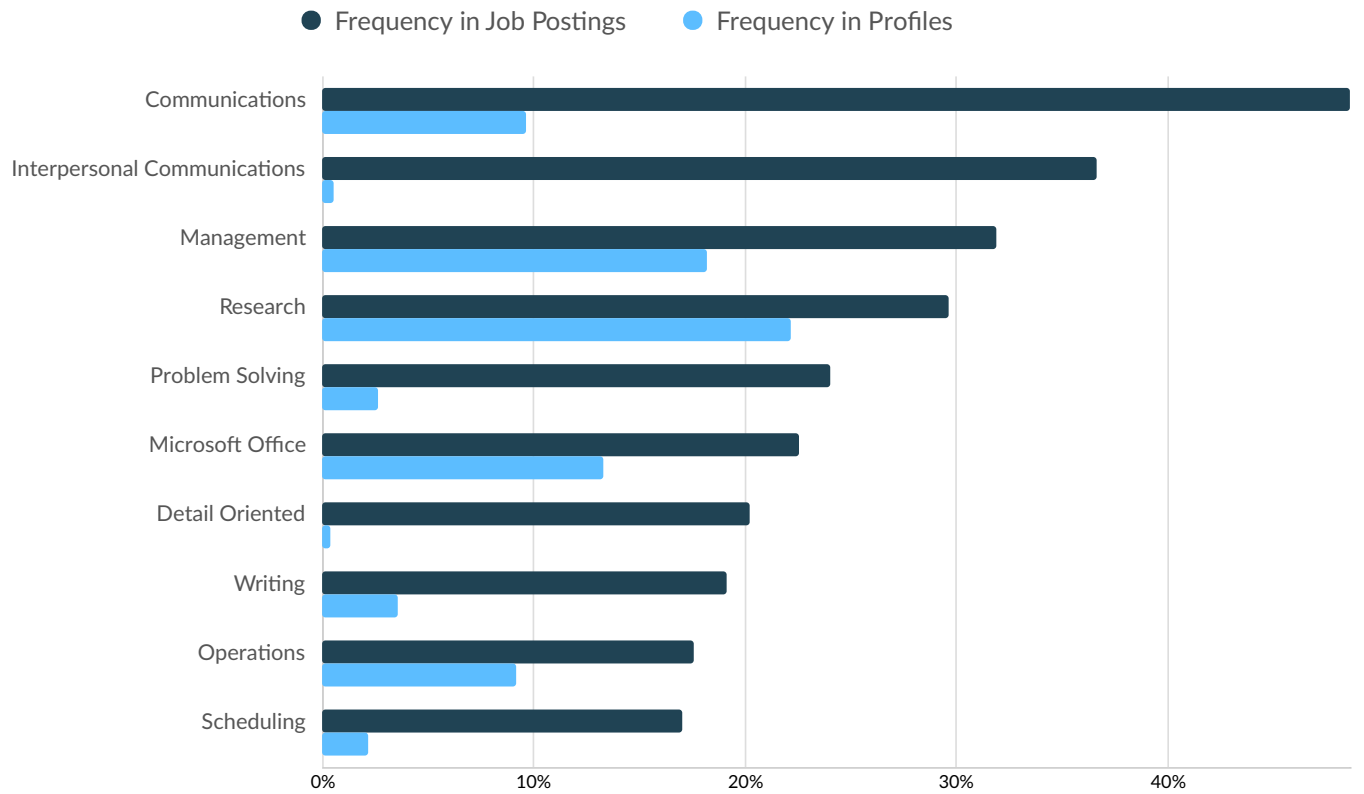
Job Title	Total/Unique (Jun 2021 - Jul 2023)	Posting Intensity	Median Posting Duration
Clinical Research Coordinators	7,577 / 1,575	5 : 1 	25 days
Oncology Clinical Research Coordinators	795 / 293	3 : 1 	27 days
Software Developers	781 / 277	3 : 1 	25 days
Software Engineers	1,265 / 252	5 : 1 	27 days
Java Developers	724 / 197	4 : 1 	25 days
Front End Developers	607 / 132	5 : 1 	26 days
Computer Programmers	1,970 / 129	15 : 1 	26 days
Full Stack Developers	376 / 128	3 : 1 	30 days
Adjunct Instructors	363 / 114	3 : 1 	43 days
HTML Developers	297 / 96	3 : 1 	26 days

Top Specialized Skills



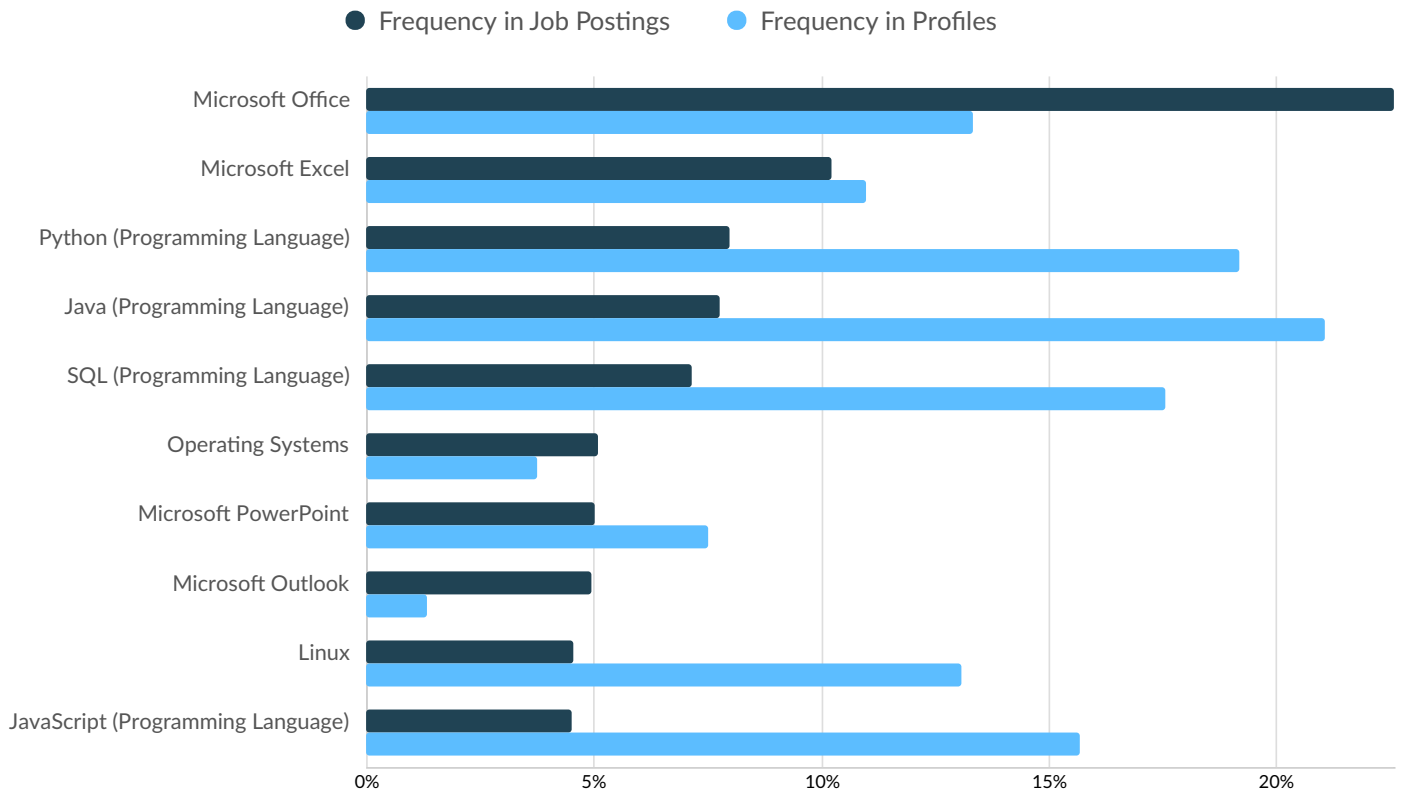
Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Auditing	2,359	19%	14,717	3%
Medical Terminology	2,266	19%	0	0%
Clinical Research Coordination	2,205	18%	2,610	0%
Case Report Forms	2,169	18%	0	0%
Clinical Research	2,111	17%	7,329	1%
Computer Science	1,968	16%	27,423	5%
Finance	1,936	16%	20,078	4%
Billing	1,704	14%	8,642	2%
Project Management	1,686	14%	78,396	14%
Patient Safety	1,654	14%	0	0%

Top Common Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Communications	5,928	49%	52,241	10%
Interpersonal Communications	4,467	37%	3,071	1%
Management	3,893	32%	99,077	18%
Research	3,614	30%	120,315	22%
Problem Solving	2,929	24%	14,563	3%
Microsoft Office	2,752	23%	72,348	13%
Detail Oriented	2,464	20%	2,156	0%
Writing	2,330	19%	19,647	4%
Operations	2,141	18%	49,985	9%
Scheduling	2,080	17%	12,004	2%

Top Software Skills



Skills	Postings	% of Total Postings	Profiles	% of Total Profiles
Microsoft Office	2,752	23%	72,348	13%
Microsoft Excel	1,244	10%	59,546	11%
Python (Programming Language)	974	8%	104,214	19%
Java (Programming Language)	945	8%	114,310	21%
SQL (Programming Language)	871	7%	95,245	18%
Operating Systems	622	5%	20,468	4%
Microsoft PowerPoint	610	5%	40,725	8%
Microsoft Outlook	602	5%	7,333	1%
Linux	555	5%	71,104	13%
JavaScript (Programming Language)	549	5%	85,070	16%

Top Qualifications

Qualification	Postings with Qualification
Valid Driver's License	718
Registered Nurse (RN)	348
Security Clearance	208
Project Management Professional Certification	170
Cisco Certified Network Associate	150
CompTIA Network+	139
Master Of Business Administration (MBA)	139
Microsoft Certified Professional	110
CompTIA A+	106
Basic Life Support (BLS) Certification	98

Appendix A

Program Selection Details

CIP Code	Program Name
11.0201	Computer Programming/Programmer, General
15.1204	Computer Software Technology/Technician
30.7001	Data Science, General
30.7101	Data Analytics, General

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