

Fire Technology Occupation Overview

Emsi Q2 2016 Data Set

July 2016

College of San Mateo



3401 CSM Drive
San Mateo, California 94402
650.358.6880

Parameters

Occupations

Code	Description
33-2011	Firefighters
33-2021	Fire Inspectors and Investigators
33-2022	Forest Fire Inspectors and Prevention Specialists
43-5031	Police, Fire, and Ambulance Dispatchers

Regions

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

Timeframe

2014 - 2021

Datarun

2016.2 - QCEW Employees

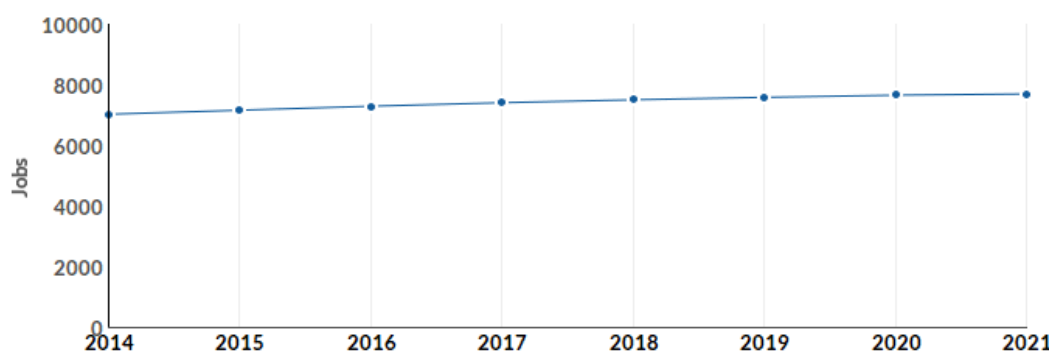
FIRE CTE in 5 Counties

Occupation Summary for FIRE CTE

<p>7,305</p> <p>Jobs (2016)</p> <p>25% below National average</p>	<p>+9.5%</p> <p>% Change (2014-2021)</p> <p>Nation: +3.6%</p>	<p>\$41.66/hr</p> <p>Median Hourly Earnings</p> <p>Nation: \$22.57/hr</p>
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Growth

<p>7,040</p> <p>2014 Jobs</p>	<p>7,711</p> <p>2021 Jobs</p>	<p>671</p> <p>Change (2014-2021)</p>	<p>9.5%</p> <p>% Change (2014-2021)</p>
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Occupation	2014 Jobs	2021 Jobs	Change	% Change
Firefighters (33-2011)	5,516	6,090	574	10%
Fire Inspectors and Investigators (33-2021)	156	174	18	12%
Forest Fire Inspectors and Prevention Specialists (33-2022)	39	44	5	13%
Police, Fire, and Ambulance Dispatchers (43-5031)	1,329	1,403	74	6%

Percentile Earnings

\$34.74/hr

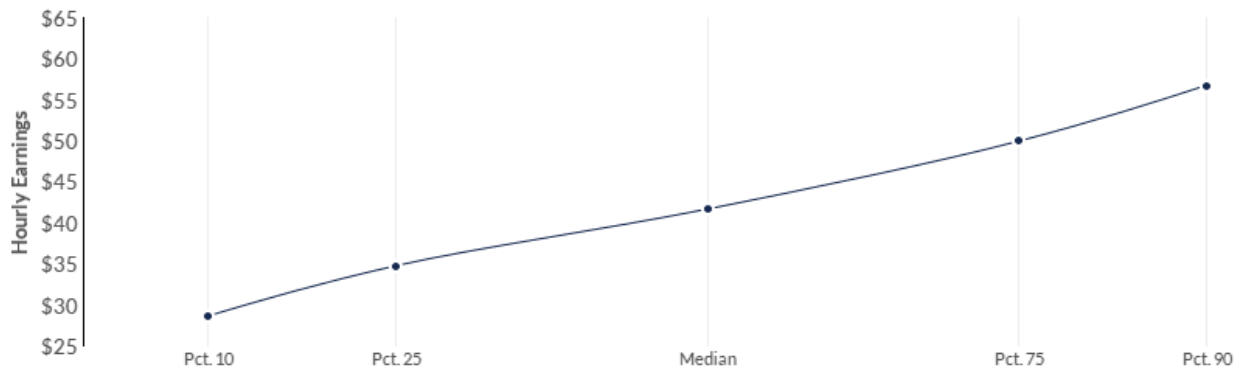
25th Percentile Earnings

\$41.66/hr

Median Earnings

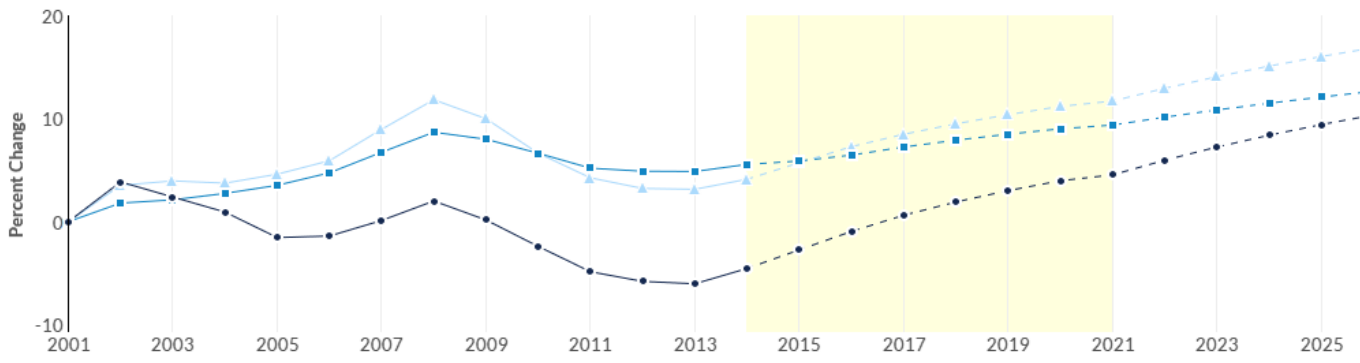
\$49.96/hr

75th Percentile Earnings



Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Firefighters (33-2011)	\$35.25	\$42.69	\$51.80
Fire Inspectors and Investigators (33-2021)	\$40.35	\$46.16	\$55.01
Forest Fire Inspectors and Prevention Specialists (33-2022)	\$39.91	\$43.80	\$45.57
Police, Fire, and Ambulance Dispatchers (43-5031)	\$31.80	\$36.81	\$41.83

Regional Trends



Region	2014 Jobs	2021 Jobs	Change	% Change
● Region	7,040	7,711	671	9.5%
■ Nation	420,258	435,472	15,214	3.6%
▲ California	39,868	42,779	2,911	7.3%

Regional Breakdown



County	2021 Jobs
San Francisco County, CA	2,614
Alameda County, CA	1,777
Santa Clara County, CA	1,491
San Mateo County, CA	1,085
Contra Costa County, CA	743

Job Postings Summary

76

Unique Postings (May 2016)
132 Total Postings

2 : 1

Posting Intensity (May 2016)



There were 132 total job postings for 4 Occupations in May 2016, of which 76 were unique. These numbers give us a Posting Intensity of 2-to-1, meaning that for every 2 postings there is 1 unique job posting.

This is lower than the Posting Intensity for all other occupations and companies in the region (5-to-1), indicating that companies may not be trying as hard to hire this position.

Occupation Gender Breakdown



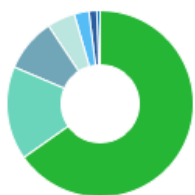
Gender	2016 Jobs	2016 Percent	
● Males	5,916	81.0%	<div style="width: 81%;"></div>
● Females	1,389	19.0%	<div style="width: 19%;"></div>

Occupation Age Breakdown



Age	2016 Jobs	2016 Percent
14-18	17	0.2%
19-24	498	6.8%
25-34	1,908	26.1%
35-44	2,235	30.6%
45-54	1,827	25.0%
55-64	717	9.8%
65+	102	1.4%

Occupation Race/Ethnicity Breakdown



Race/Ethnicity	2016 Jobs	2016 Percent
White	4,764	65.2%
Hispanic or Latino	1,184	16.2%
Black or African American	677	9.3%
Asian	352	4.8%
Two or More Races	187	2.6%
American Indian or Alaska Native	99	1.4%
Native Hawaiian or Other Pacific Islander	43	0.6%

Occupational Programs

2 Programs (2014)	283 Completions (2014)	338 Openings (2014)
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CIP Code	Program	Completions (2014)
43.0201	Fire Prevention and Safety Technology/Technician	262
43.0203	Fire Science/Fire-fighting	21

Industries Employing FIRE CTE

Industry	Occupation Group Jobs in Industry (2016)	% of Occupation Group in Industry (2016)	% of Total Jobs in Industry (2016)
Local Government, Excluding Education and Hospitals	6,704	91.8%	5.8%
State Government, Excluding Education and Hospitals	126	1.7%	0.6%
All Other Support Services	86	1.2%	3.2%
Federal Government, Civilian, Excluding Postal Service	70	1.0%	0.2%
Ambulance Services	68	0.9%	3.1%

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.

Completers Data

The completers 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.

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.

State Data Sources

This report uses state data from the following agencies: California Labor Market Information Department