** Firefighter Company Officer Occupations**

**Labor Market Information Report**

**Monterey Peninsula College**

Prepared by the San Francisco Bay Center of Excellence

for Labor Market Research

December 2018

# Recommendation

Based on all available data, there appears to be a slight undersupply of Firefighter Company Officers compared to the demand for this occupation in the Bay region and in the SC-Monterey sub-region (Monterey, San Benito, and Santa Cruz Counties). The gap is about 35 students annually in the Bay region and 9 students annually in the SC-Monterey Sub-Region.

This report also provides student outcomes data on employment and earnings for programs on TOP 2133.50 - Fire Academy in the state and region. It is recommended that this data be reviewed to better understand how outcomes for students taking courses on this TOP code compare to potentially similar programs at colleges in the state and region, as well as to outcomes across all CTE programs at Monterey Peninsula College and in the region.

# Introduction

This report profiles Firefighter Company Officer Occupations in the 12 county Bay region and in the SC-Monterey sub-region for a proposed new program at Monterey Peninsula College.

|  |
| --- |
| * **First-Line Supervisors of Fire Fighting and Prevention Workers (SOC 33-1021):** Directly superviseand coordinate activities of workers engaged in firefighting and fire prevention and control.
 |
| *Entry-Level Educational Requirement: Postsecondary nondegree award* |
| *Training Requirement: Moderate-term on-the-job training* |
| *Percentage of Community College Award Holders or Some Postsecondary Coursework: 58%* |

# Occupational Demand

**Table 1. Employment Outlook for Firefighter Company Officer Occupations in Bay Region**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Occupation  | 2017 Jobs | 2022 Jobs | 5-Yr Change | 5-Yr % Change | 5-Yr Open-ings | Annual Open-ings | 10% Hourly Wage | Median Hourly Wage |
| First-Line Supervisors of Fire Fighting and Prevention Workers | 697 | 757 | 60  | 9% | 294 | 59 | $27.94  | $61.38  |

*Source: EMSI 2018.4*

**Bay Region** includes Alameda, Contra Costa, Marin, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano and Sonoma Counties

**Table 2. Employment Outlook for Firefighter Company Officer Occupations in SC-Monterey Sub-Region**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Occupation  | 2017 Jobs | 2022 Jobs | 5-Yr Change | 5-Yr % Change | 5-Yr Open-ings | Annual Open-ings | 10% Hourly Wage | Median Hourly Wage |
| First-Line Supervisors of Fire Fighting and Prevention Workers | 115 | 120 | 6  | 5% | 44 | 9 | $53.02  | $77.91  |

*Source: EMSI 2018.4*

**SC-Monterey Sub-Region** includes Monterey, San Benito, and Santa Cruz Counties

### Job Postings in Bay Region and SC-Monterey Sub-Region

**Table 3. Number of Job Postings by Occupation for latest 12 months (Oct 2017 - Sept 2018)**

|  |  |  |
| --- | --- | --- |
| Occupation | Bay Region | SC-Monterey |
| Municipal Fire Fighting and Prevention Supervisors (33-1021.01) | 95 | 10 |
| Forest Fire Fighting and Prevention Supervisors (33-1021.02) | 20 | 2 |
| **Total** | **115** | **12** |

*Source: Burning Glass*

**Table 4. Top Job Titles for Firefighter Company Officer Occupations for latest 12 months (Oct 2017 - Sept 2018)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Common Title | Bay | SC-Monterey | Common Title | Bay | SC-Monterey |
| Battalion Chief | 18 | 3 | Be The Boss And Set Own Rate | 3 |  |
| Fire Chief | 18 |  | Coordinator | 3 | 1 |
| Damage Prevention Awareness Spc,Senior | 10 | 1 | Field Chief | 3 |  |
| Chief | 6 |  | Fire Marshal | 3 |  |
| Deputy Chief Health Officer, Medical Imaging | 4 |  | Incident Commander | 3 |  |
| Leader | 4 |  | Assistant Marshal | 2 |  |

*Source: Burning Glass*

# Industry Concentration

**Table 5. Industries hiring Firefighter Company Officer Workers in Bay Region**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Industry – 6 Digit NAICS (No. American Industry Classification) Codes | Jobs in Industry (2017) | Jobs in Industry (2022) | % Change (2017-22) | % in Industry (2017) |
| Local Government, Excluding Education and Hospitals (903999) | 656 | 662 | 9% | 94.1% |

*Source: EMSI 2018.4*

**Table 6. Top Employers Firefighter Company Officer Occupations in Bay and SC-Monterey Sub-Region (Oct 2017 - Sept 2018)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Employer | Bay | Employer | Bay | Employer | SC-Monterey |
| State of California | 14 | University Of California Santa Cruz | 2 | County Of Monterey Auditor Controller | 3 |
| Pacific Gas and Electric Company | 10 | Aalgorithm | 1 | University Of California Santa Cruz | 2 |
| City Fremont | 5 | Alchemy Solutions Group | 1 | County Monterey | 1 |
| IBM | 5 | Ares Corporation | 1 | Digital Management Incorporated | 1 |
| County Sonoma | 4 | Asian & Pacific Islander Wellness Center | 1 | Nxt Solutions, Llc | 1 |
| Daily Dispatch | 4 | Association Of Construction Professionals & Engineers | 1 | Pacific Gas and Electric Company | 1 |
| Arup | 3 | Brightstar Media Organization | 1 |  |  |
| County Of Monterey Auditor Controller | 3 | Ca Technology | 1 |  |  |
| Fiore Industries Incorporated | 2 | California Division of Correctional Rehabilitation | 1 |  |  |
| Guard Grabber Technologies Inc | 2 | California State University | 1 |  |  |

*Source: Burning Glass*

# Educational Supply

There are two community colleges in the Bay Region issuing 24 awards annually on TOP 2133.50 - Fire Academy. There are no colleges in the SC-Monterey sub-region issuing awards on this TOP code.

**Table 7. Awards on TOP 2133.50 - Fire Academy in the Bay Area**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| College | Sub-Region | Headcount | Certificates | Total |
| **Chabot** | East Bay | 44 |  |  |
| **Foothill** | Silicon Valley | 273 |  |  |
| **Hartnell** | SC Monterey | 593 |  |  |
| **Los Medanos** | East Bay | 28 | 1 | 1 |
| **Merrit** | East Bay | 79 |  |  |
| **Mission** | East Bay | 25 |  |  |
| **Monterey Peninsula** | SC Monterey | 61 |  |  |
| **San Mateo** | Mid-Peninsula | 42 |  |  |
| **Santa Rosa** | North Bay | 95 | 23 | 23 |
| **Total Bay Region** |  **1,240**  |  **24**  |  **24**  |
| **Total SC-Monterey Sub-Region** |  **654**  |  **-**  |  **-**  |

# *Source: IPEDS, Data Mart and Launchboard*

NOTE: Headcount of students who took one or more courses is for 2016-17. The annual average for awards is 2014-17 unless there are only awards in 2016-17. The annual average for other postsecondary is for 2013-16.

# Gap Analysis

Based on the data included in this report, there is a slight labor market gap in the Bay region with 59 annual openings for the Firefighter Company Officer occupation and 24 annual awards for an annual undersupply of 35. In the SC-Monterey sub-region, there is also a gap with 9 annual openings and no annual awards for an annual undersupply of 9.

# Student Outcomes

**Table 8. Four Employment Outcomes Metrics for Students Who Took Courses on TOP 2133.50 - Fire Academy**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 2015-16 | Bay (All CTE Programs) | Monterey Peninsula College (All CTE Programs) | State (2133.50) | Bay (2133.50) | SC-Monterey (2133.50) | Monterey Peninsula College (2133.50) |
| % Employed Four Quarters After Exit | 74% | 76% | 79% | 82% | 68% | 85% |
| Median Quarterly Earnings Two Quarters After Exit | $10,550 | $13,648 | $19,779 | $22,327 | $21,000 | $16,486 |
| Median % Change in Earnings | 46% | 29% | 20% | 30% | 39% | 38% |
| % of Students Earning a Living Wage | 63% | 71% | 79% | 83% | 84% | 74% |

*Source: Launchboard Pipeline (version available on 11/29/18)*

# Skills, Certifications and Education

**Table 9. Top Skills for Firefighter Company Officer Occupations in Bay Region (Oct 2017 - Sept 2018)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Skill | Postings | Skill | Postings | Skill | Postings |
| Driver's License | 31 | Aerial Rescue and Fire Fighting (ARFF) | 2 | Cisco Certified Network Associate (CCNA) | 1 |
| Contractors License | 10 | Airport Firefighter | 2 | Cisco Certified Network Professional (CCNP) | 1 |
| Fire Officer | 7 | American Heart Association Certification | 2 | CompTIA Network+ | 1 |
| Board Certified/Board Eligible | 4 | Fire Inspector II | 2 | CompTIA Security+ | 1 |
| Care+ Certification | 4 | Fire Instructor II | 2 | CompTIA Server+ | 1 |
| Emergency Medical Technician (EMT) | 4 | Firefighter I | 2 | Fire Inspector | 1 |
| Fire Officer III | 4 | Firefighter II | 2 | Fire Inspector I | 1 |
| Firefighter | 3 | HazMat Incident Commander | 2 | Fire Officer I | 1 |
| Licensed Professional Engineer | 3 | Police Officer | 2 | IT Infrastructure Library (ITIL) Certification | 1 |

*Source: Burning Glass*

**Table 10. Certifications for Firefighter Company Officer Occupations in the Bay Region (Oct 2017 - Sept 2018)**

Note: 49% of records have been excluded because they do not include a certification. As a result, the chart below may not be representative of the full sample.

|  |  |  |  |
| --- | --- | --- | --- |
| Certification | Postings | Certification | Postings |
| Driver's License | 70 | First Aid Cpr Aed | 10 |
| Emergency Medical Technician (EMT) | 53 | Airport Firefighter | 9 |
| Firefighter | 34 | Fire Officer | 9 |
| Firefighter I | 29 | Driver/Operator Pumper | 8 |
| Certified Patient Account Technician | 19 | Driver/Operator Mobile Water Supply | 6 |
| Licensed Professional Engineer | 18 | Fire Inspector I | 6 |
| Paramedic Certification | 18 | HazMat Operations | 6 |
| Firefighter II | 15 | Security Clearance | 6 |
| National Registry of Emergency Medical Technicians (NREMT) | 12 | American Heart Association Certification | 5 |
| Aerial Rescue and Fire Fighting (ARFF) | 10 | HazMat Technician | 5 |
| Contractors License | 10 | Hazardous Materials Technician | 5 |

*Source: Burning Glass*

**Table 11. Education Requirements for Firefighter Company Officer Occupations in Bay Region**

Note: 62% of records have been excluded because they do not include a degree level. As a result, the chart below may not be representative of the full sample.

|  |  |
| --- | --- |
| Education (minimum advertised) | Latest 12 Mos. Postings |
| High school or vocational training | 11 (25%) |
| Associate Degree | 2 (5%) |
| Bachelor’s Degree or Higher | 31 (70%) |

*Source: Burning Glass*

# Methodology

Occupations for this report were identified by use of skills listed in O\*Net descriptions and job descriptions in Burning Glass. Labor demand data is sourced from Economic Modeling Specialists International (EMSI) occupation data and Burning Glass job postings data. Educational supply and student outcomes data is retrieved from multiple sources, including CTE Launchboard and CCCCO Data Mart.

# Sources

O\*Net Online

Labor Insight/Jobs (Burning Glass)

Economic Modeling Specialists International (EMSI)

CTE LaunchBoard [www.calpassplus.org/Launchboard/](http://www.calpassplus.org/Launchboard/)

Statewide CTE Outcomes Survey

Employment Development Department Unemployment Insurance Dataset

Living Insight Center for Community Economic Development

Chancellor’s Office MIS system

# Contacts

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