# **Program Market Demand**

Engineering Technology, General

Emsi Q3 2018 Data Set

September 2018

# **College of San Mateo**



3401 CSM Drive San Mateo, California 94402 650.358.6880

# **Parameters**

### Programs

| Code    | Description                     |
|---------|---------------------------------|
| 15.0000 | Engineering Technology, General |

# 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   |

### **Education Levels**

Any

### **Completions Year**

2015

### Jobs Timeframe

2017 - 2024

#### Job Postings Timeframe

Sep 2016 - Aug 2018

# **Program Overview**

|                  |   |                                  | Completions<br>(2015) | %<br>Completions | Institutions<br>(2015) | %<br>Institutions |
|------------------|---|----------------------------------|-----------------------|------------------|------------------------|-------------------|
|                  | • | All Programs                     | 1                     | 100%             | 1                      | 100%              |
| 1<br>Completions |   | Distance Offered<br>Programs     | 0                     | 0%               | 0                      | 0%                |
| Completions      | • | Non-Distance<br>Offered Programs | 1                     | 100%             | 1                      | 100%              |
|                  |   |                                  |                       |                  |                        |                   |

| Institution                   | Completions | Growth % YOY | Market Share |
|-------------------------------|-------------|--------------|--------------|
|                               | (2015)      | (2015)       | (2015)       |
| City College of San Francisco | 1           | Insf. Data   | 100.0%       |

# **Regional Trends**



Postings

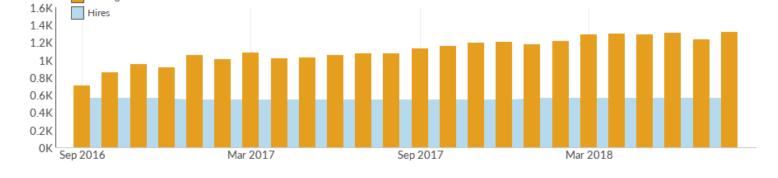
1,109

Avg. Monthly Postings (Sep 2016 - Aug 2018)

Avg. Monthly Hires (Sep 2016 - Aug 2018)

555

In an average month, there were **1,109** unique job postings for *9 Occupations*, and **555** actually hired. This means there was approximately 1 hire for every 2 unique job postings for *9 Occupations*.



| Occupation   | Avg Monthly Postings (Sep 2016 - Aug<br>2018) | Avg Monthly Hires (Sep 2016 - Aug<br>2018) |
|--|---|--|
| Electrical and Electronics Engineering<br>Technicians  | 504   | 234  |
| Industrial Engineering Technicians                     | 338   | 26   |
| Engineering Technicians, Except Drafters, All<br>Other | 84  | 77   |
| Civil Engineering Technicians                          | 56  | 59   |
| Mechanical Engineering Technicians                     | 50  | 30   |
| Electro-Mechanical Technicians                         | 35  | 29   |
| Environmental Engineering Technicians                  | 25  | 30   |
| Surveying and Mapping Technicians                      | 16  | 44   |
| Aerospace Engineering and Operations<br>Technicians    | 2   | 26   |

### Job Postings Summary



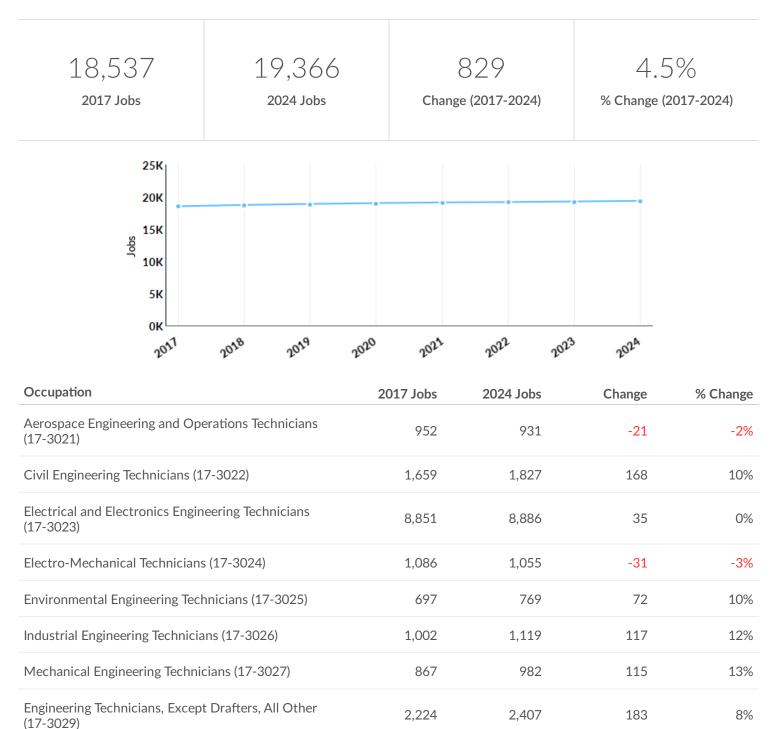
There were **46,216** total job postings for your selection from September 2016 to August 2018, of which **8,923** were unique. These numbers give us a Posting Intensity of **5-to-1**, meaning that for every 5 postings there is 1 unique job posting.

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.

# **Target Occupations**

| 18,537<br>Jobs (2017) +4.5%<br>% Change (2017-2024)<br>Nation: +5.8% |              | )17-2024) | \$30.76/hr<br>Median Hourly Earnings<br>Nation: \$27.13/hr |          | 1,814<br>Annual Openings |                             |
|--|--------------|-----------|--|----------|--------------------------|-----------------------------|
| Occupation   | 2017<br>Jobs |           | Median Hourly<br>Earnings                                  | Growth ( | 2017 -<br>2024)          | Location Quotient<br>(2017) |
| Electrical and Electronics Engir<br>Technicians                      | eering 8,851 | 792       | \$29.98/hr   | +        | 0.40%                    | 2.84                        |
| Engineering Technicians, Excep<br>Drafters, All Other                | t 2,224      | 223       | \$34.64/hr   | +        | 8.23%                    | 1.18                        |
| Civil Engineering Technicians  | 1,659        | 174       | \$31.09/hr   | +1       | 0.13%                    | 0.96                        |
| Surveying and Mapping Technic  | cians 1,198  | 165       | \$31.18/hr   | +1       | 6.11%                    | 0.90                        |
| Electro-Mechanical Technician  | s 1,086      | 96        | \$26.48/hr   | -        | 2.85%                    | 3.21                        |
| Industrial Engineering Technicia                                     | ans 1,002    | 107       | \$30.52/hr   | +1       | 1.68%                    | 0.64                        |
| Aerospace Engineering and Operations Technicians                     | 952          | 88        | \$34.69/hr   | -        | 2.21%                    | 3.31                        |
| Mechanical Engineering Techni  | cians 867    | 95        | \$30.34/hr   | +1       | .3.26%                   | 0.81                        |
| Environmental Engineering<br>Technicians                             | 697          | 72        | \$28.75/hr   | +1       | 0.33%                    | 1.61                        |

### Growth



Surveying and Mapping Technicians (17-3031)

1,198

1,391

193

16%

# Percentile Earnings



| Occupation   | 25th Percentile<br>Earnings | Median Earnings | 75th Percentile<br>Earnings |
|--|-----------------------------|-----------------|-----------------------------|
| Aerospace Engineering and Operations Technicians (17-3021)       | \$29.65                     | \$34.69         | \$38.79                     |
| Civil Engineering Technicians (17-3022)                          | \$26.44                     | \$31.09         | \$37.71                     |
| Electrical and Electronics Engineering Technicians (17-<br>3023) | \$22.88                     | \$29.98         | \$37.99                     |
| Electro-Mechanical Technicians (17-3024)                         | \$21.44                     | \$26.48         | \$31.67                     |
| Environmental Engineering Technicians (17-3025)                  | \$22.42                     | \$28.75         | \$37.64                     |
| Industrial Engineering Technicians (17-3026)                     | \$25.21                     | \$30.52         | \$39.63                     |
| Mechanical Engineering Technicians (17-3027)                     | \$24.14                     | \$30.34         | \$37.33                     |
| Engineering Technicians, Except Drafters, All Other<br>(17-3029) | \$27.38                     | \$34.64         | \$43.62                     |
| Surveying and Mapping Technicians (17-3031)                      | \$25.10                     | \$31.18         | \$39.21                     |

# **Top Companies Posting**

| Company                                   | Total/Unique (Sep 2016 - Aug<br>2018) | Posting Intensity | Median<br>Posting<br>Duration |
|---|---------------------------------------|-------------------|-------------------------------|
| Sanmina Corporation                       | 6,546 / 350                           | 19:1              | 2 days                        |
| Tesla Motors, Inc.                        | 1,102 / 283                           | 4:1               | 90 days                       |
| Kelly Services, Inc.                      | 998 / 169                             | 6:1               | 34 days                       |
| Aerotek, Inc.                             | 1,042 / 168                           | 6:1               | 16 days                       |
| Apple Inc.                                | 490 / 117                             | 4:1               | 60 days                       |
| Modis, Inc.                               | 364 / 94                              | 4:1               | 34 days                       |
| At-Tech                                   | 228 / 92                              | 2:1               | 48 days                       |
| RANDSTAD HOLDING nv                       | 602 / 89                              | 7:1               | 33 days                       |
| Synopsys, Inc.                            | 212 / 84                              | 3:1               | 37 days                       |
| Atr International, Inc.                   | 242 / 83                              | 3:1               | 39 days                       |
| Lawrence Livermore National<br>Laboratory | 238 / 81                              | 3:1               | 92 days                       |
| Superior Group                            | 377 / 72                              | 5:1               | 39 days                       |
| Pacific Gas and Electric Company          | 315 / 68                              | 5:1               | 30 days                       |
| Applied Materials, Inc.                   | 511 / 65                              | 8:1               | 53 days                       |
| AppleOne                                  | 146 / 53                              | 3:1               | 30 days                       |
| Coherent, Inc.                            | 260 / 51                              | 5:1               | 61 days                       |
| Lam Research Corporation                  | 221 / 50                              | 4:1               | 35 days                       |
| Nana Regional Corporation, Inc.,          | 194 / 46                              | 4:1               | 54 days                       |
| CDI Corporation                           | 207 / 45                              | 5:1               | 33 days                       |
| Western Digital Corporation               | 143 / 45                              | 3:1               | 19 days                       |
| Jabil Circuit, Inc.                       | 206 / 44                              | 5:1               | 61 days                       |
| Thermo Fisher Scientific Inc              | 419 / 43                              | 10:1              | 57 days                       |
| Varian Medical Systems, Inc.              | 234 / 43                              | 5:1               | 76 days                       |
| Apex Systems, Inc.                        | 649 / 42                              | 15:1              | 46 days                       |

| Adecco Group                       | 127/38      | 3:1 | 39 days |
|------------------------------------|-------------|-----|---------|
| Advantage Resourcing               | 512/38 13   | 3:1 | 33 days |
| Intuitive Surgical, Inc.           | 98 / 34     | 3:1 | 38 days |
| Fieldco                            | 78 / 33 2   | 2:1 | 64 days |
| Amazon.com, Inc.                   | 123 / 32    | 4:1 | 43 days |
| Apex Life Science Advisors LLC     | 140 / 32    | 4:1 | 36 days |
| Skyworks Solutions, Inc.           | 369 / 32 12 | 2:1 | 49 days |
| Formfactor, Inc.                   | 193 / 30    | 5:1 | 38 days |
| Outsource, Inc.                    | 75/30       | 3:1 | 28 days |
| Tesla, Inc.                        | 117 / 30    | 4:1 | 47 days |
| Boston Scientific Corporation      | 189 / 28    | 7:1 | 17 days |
| COBHAM PLC                         | 155 / 27    | 5:1 | 66 days |
| Advanced Employment Services, Inc  | 977 / 25 39 | 9:1 | 50 days |
| Arex Life Sciences, Inc.           | 128 / 25    | 5:1 | 59 days |
| Cybercoders, Inc.                  | 96 / 25     | 4:1 | 43 days |
| Balance Staffing Inc               | 36 / 24 2   | 2:1 | 32 days |
| Experis Us, Inc.                   | 61/24       | 3:1 | 16 days |
| 40 Hrs, Inc                        | 38 / 22 2   | 2:1 | 11 days |
| Danaher Corporation                | 126 / 22    | 5:1 | 46 days |
| Lockheed Martin Corporation        | 109 / 22    | 5:1 | 48 days |
| RANDSTAD UK HOLDING LTD            | 136 / 22    | 5:1 | 33 days |
| Abbott Laboratories                | 101 / 21    | 5:1 | 34 days |
| Federal Aviation Administration    | 77 / 21     | 4:1 | 24 days |
| Nextgen Information Services, Inc. | 936 / 21 45 | 5:1 | 24 days |
| Abaxis, Inc.                       | 26 / 20     | 1:1 | 14 days |
| Akorbi                             | 33 / 20 2   | 2:1 | 16 days |
|                                    |             |     |         |

# **Top Posted Job Titles**

| Job Title  | - Total/Unique (Sep 2016<br>Aug 2018) | Posting Intensity | Median<br>Posting<br>Duration |
|--|---------------------------------------|-------------------|-------------------------------|
| Engineering Technician   | 7,095 / 1,465                         | 5:1               | 38 days                       |
| Manufacturing Technician (Architecture and Engineering)          | 6,584 / 709                           | 9:1               | 34 days                       |
| Engineering Intern   | 1,386 / 441                           | 3:1               | 40 days                       |
| Quality Assurance Engineer (Architecture and Engineering)        | 2,050 / 423                           | 5:1               | 35 days                       |
| Electronics Technician   | 1,304 / 364                           | 4:1               | 33 days                       |
| Production Technician  | 1,749 / 326                           | 5:1               | 41 days                       |
| Systems Technician (Architecture and Engineering)                | 3,932 / 271                           | 15:1              | 2 days                        |
| Process Technician (Architecture and Engineering)                | 1,736 / 253                           | 7:1               | 34 days                       |
| Electrical Technician  | 793 / 203                             | 4:1               | 39 days                       |
| Electro-Mechanical Technician                                    | 760 / 198                             | 4:1               | 33 days                       |
| Quality Technician   | 1,058 / 156                           | 7:1               | 31 days                       |
| Calibration Technician   | 669 / 148                             | 5:1               | 33 days                       |
| Laboratory Technician (Architecture and Engineering)             | 732 / 142                             | 5:1               | 53 days                       |
| Mechanical Technician  | 515 / 132                             | 4:1               | 37 days                       |
| Quality Assurance (QA) Technician (Architecture and Engineering) | 453 / 121                             | 4:1               | 33 days                       |
| Instrumentation Technician (Architecture and Engineering)        | 420 / 114                             | 4:1               | 54 days                       |
| Assembly Technician (Production)                                 | 518 / 106                             | 5:1               | 38 days                       |
| Laboratory Technician (Life, Physical, and Social Science)       | 329 / 91                              | 4:1               | 31 days                       |
| Design Engineer (Architecture and Engineering)                   | 243 / 82                              | 3:1               | 30 days                       |
| Research and Development (R&D) Engineer                          | 421 / 82                              | 5:1               | 41 days                       |
| Field Technician (Architecture and Engineering)                  | 453 / 80                              | 6:1               | 43 days                       |
|  |                                       |                   |                               |

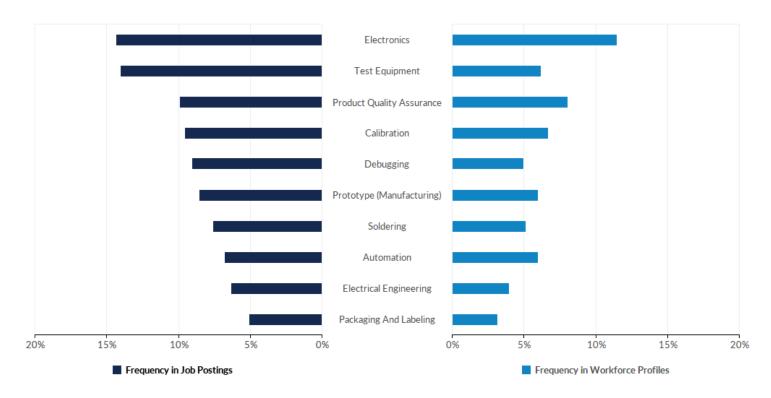
| CAD Technician  | 177 / 72 | 2:1  | 52 days |
|---|----------|------|---------|
| Cable Technician (Installation, Maintenance, and Repair)          | 177 / 71 | 2:1  | 40 days |
| Mechanical Engineer   | 169 / 65 | 3:1  | 48 days |
| NDT Technician  | 157 / 60 | 3:1  | 33 days |
| Manufacturing Technician (Production)                             | 396 / 59 | 7:1  | 49 days |
| Radio Frequency Technician  | 140 / 56 | 3:1  | 39 days |
| Lead Technician   | 691 / 49 | 14:1 | 50 days |
| Engineering Technologist  | 124 / 42 | 3:1  | 62 days |
| Environmental Services Technician (Architecture and Engineering)  | 268 / 42 | 6:1  | 29 days |
| Digital Technician  | 185 / 41 | 5:1  | 23 days |
| Engineering Assistant   | 117 / 40 | 3:1  | 30 days |
| Manufacturing Engineer  | 298 / 40 | 7:1  | 31 days |
| Automation Technician (Architecture and Engineering)              | 112 / 36 | 3:1  | 42 days |
| Maintenance Technician (Architecture and Engineering)             | 103 / 34 | 3:1  | 50 days |
| Software Engineer   | 135 / 34 | 4:1  | 30 days |
| Maintenance Technician (Installation,<br>Maintenance, and Repair) | 143 / 33 | 4:1  | 31 days |
| Metrology Engineer  | 87 / 31  | 3:1  | 38 days |
| Packaging Technician  | 84 / 31  | 3:1  | 31 days |
| Operations Technician (Installation,<br>Maintenance, and Repair)  | 128 / 30 | 4:1  | 39 days |
| Behavior Specialist   | 72 / 29  | 2:1  | 25 days |
| Engineering Co-op   | 149 / 29 | 5:1  | 50 days |
| Maintenance Mechanic  | 97 / 29  | 3:1  | 30 days |
| Process Engineer  | 337 / 29 | 12:1 | 13 days |
|   |          |      |         |

| Systems Technician (Installation, Maintenance, and Repair)   | 80 / 29  | 3:1  | 29 days |
|--|----------|------|---------|
| Radio Frequency Engineer                                     | 145 / 28 | 5:1  | 58 days |
| Equipment Technician (Installation, Maintenance, and Repair) | 104 / 27 | 4:1  | 36 days |
| Systems Engineer (Architecture and Engineering)              | 75 / 27  | 3:1  | 37 days |
| Equipment Engineer   | 247 / 26 | 10:1 | 31 days |
| Process Technician (Production)                              | 65 / 26  | 3:1  | 23 days |

The following provides insight into the supply and demand of relevant skills by comparing the frequency of skills present in job postings against skills present in today's workforce. Along with Emsi's job posting analytics, this comparison leverages Emsi's dataset of more than 100M online resumés and profiles. All resumés and profiles used in these comparisons have been updated within the last three years.

\*The skills associated with workforce profiles represent workers of all education and experience levels.

# **Top Hard Skills**



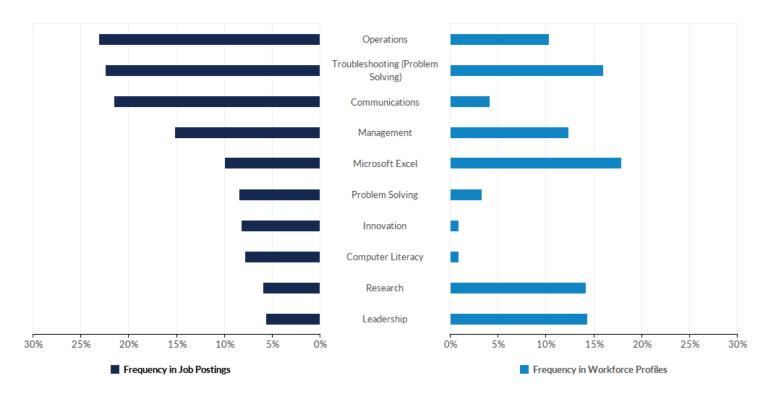
# **Top Hard Skills**

| Skill                     | Frequency<br>in Postings | Postings with Skill / Total<br>Postings (Sep 2016 - Aug<br>2018) | Frequency<br>in Profiles | Profiles with Skill / Total<br>Profiles (2016 - 2018) |
|---------------------------|--------------------------|--|--------------------------|---|
| Electronics               | 14%                      | 1,282 / 8,923  | 11%                      | 1,075 / 9,378   |
| Test Equipment            | 14%                      | 1,256 / 8,923  | 6%                       | 580 / 9,378   |
| Product Quality Assurance | 10%                      | 886 / 8,923  | 8%                       | 754 / 9,378   |
| Calibration               | 10%                      | 856 / 8,923  | 7%                       | 627 / 9,378   |
| Debugging                 | 9%                       | 808 / 8,923  | 5%                       | 467 / 9,378   |
| Prototype (Manufacturing) | 9%                       | 764 / 8,923  | 6%                       | 563 / 9,378   |
| Soldering                 | 8%                       | 678 / 8,923  | 5%                       | 484 / 9,378   |

| Automation                       | 7%       | 607 / 8,923                | 6%       | 560 / 9,378               |
|----------------------------------|----------|----------------------------|----------|---------------------------|
| Electrical Engineering           | 6%       | 566 / 8,923                | 4%       | 371 / 9,378               |
| Packaging And Labeling           | 5%       | 454 / 8,923                | 3%       | 296 / 9,378               |
| Instrumentation                  | 5%       | 450 / 8,923                | 3%       | 311 / 9,378               |
| Computer-Aided Design            | 5%       | 443 / 8,923                | 4%       | 401 / 9,378               |
| Electrical Wirings               | 5%       | 437 / 8,923                | 3%       | 251 / 9,378               |
| Mechanical Engineering           | 5%       | 425 / 8,923                | 5%       | 435 / 9,378               |
| Good Manufacturing Practices     | 4%       | 385 / 8,923                | 5%       | 442 / 9,378               |
| Optics                           | 4%       | 375 / 8,923                | 4%       | 343 / 9,378               |
| New Product Development          | 4%       | 371 / 8,923                | 7%       | 610 / 9,378               |
| Quality Management               | 4%       | 370 / 8,923                | 6%       | 562 / 9,378               |
| Blueprinting                     | 4%       | 351 / 8,923                | 1%       | 139 / 9,378               |
| Pharmaceuticals                  | 4%       | 342 / 8,923                | 2%       | 223 / 9,378               |
| Tooling                          | 4%       | 337 / 8,923                | 1%       | 130 / 9,378               |
| Manufacturing Operations         | 4%       | 334 / 8,923                | 1%       | 91 / 9,378                |
| Printed Circuit Board            | 4%       | 329 / 8,923                | 3%       | 293 / 9,378               |
| Software Quality Assurance (SQA) | 4%       | 325 / 8,923                | 4%       | 332 / 9,378               |
| Electronic Circuits              | 4%       | 314 / 8,923                | 1%       | 101 / 9,378               |
| Control Systems                  | 3%       | 303 / 8,923                | 1%       | 119 / 9,378               |
| Computer Control Systems         | 3%       | 299 / 8,923                | 2%       | 143 / 9,378               |
| Microsoft Access                 | 3%       | 287 / 8,923                | 3%       | 280 / 9,378               |
| Machining                        | 3%       | 273 / 8,923                | 2%       | 227 / 9,378               |
| Machining                        | 570      |                            |          |                           |
| Disassembler                     | 3%       | 268 / 8,923                | 0%       | 26 / 9,378                |
|                                  |          |                            | 0%<br>7% | 26 / 9,378<br>667 / 9,378 |
| Disassembler                     | 3%       | 268 / 8,923                |          |                           |
| Disassembler<br>AutoCAD          | 3%<br>3% | 268 / 8,923<br>266 / 8,923 | 7%       | 667 / 9,378               |

| Cleanrooms                        | 3% | 251 / 8,923 | 3% | 288 / 9,378 |
|-----------------------------------|----|-------------|----|-------------|
| Signal Generators                 | 3% | 242 / 8,923 | 1% | 112 / 9,378 |
| Personal Protective Equipment     | 2% | 216 / 8,923 | 0% | 24 / 9,378  |
| Voltage                           | 2% | 214 / 8,923 | 1% | 77 / 9,378  |
| Auditing                          | 2% | 213 / 8,923 | 2% | 175 / 9,378 |
| Corrective And Preventive Actions | 2% | 210 / 8,923 | 1% | 106 / 9,378 |
| Chemistry                         | 2% | 209 / 8,923 | 1% | 140 / 9,378 |
| Biotechnology                     | 2% | 208 / 8,923 | 3% | 324 / 9,378 |
| Programmable Logic Controllers    | 2% | 208 / 8,923 | 2% | 181 / 9,378 |
| Preventive Maintenance            | 2% | 205 / 8,923 | 3% | 261 / 9,378 |
| Test Engineering                  | 2% | 203 / 8,923 | 3% | 278 / 9,378 |
| Radio Frequency                   | 2% | 186 / 8,923 | 4% | 371 / 9,378 |
| Surveying                         | 2% | 186 / 8,923 | 1% | 125 / 9,378 |
| Biology                           | 2% | 174 / 8,923 | 1% | 84 / 9,378  |
| Telecommunications                | 2% | 171 / 8,923 | 3% | 266 / 9,378 |
| Civil Engineering                 | 2% | 163 / 8,923 | 2% | 201 / 9,378 |
| Manufacturing Processes           | 2% | 159 / 8,923 | 2% | 192 / 9,378 |
|                                   |    |             |    |             |

# **Top Common Skills**



# **Top Common Skills**

| Skill                             | Frequency in Postings | Postings with Skill / Total<br>Postings (Sep 2016 - Aug<br>2018) | Frequency<br>in Profiles | Profiles with Skill / Total<br>Profiles (2016 - 2018) |
|-----------------------------------|-----------------------|--|--------------------------|---|
| Operations                        | 23%                   | 2,066 / 8,923  | 10%                      | 970 / 9,378   |
| Troubleshooting (Problem Solving) | 22%                   | 2,004 / 8,923  | 16%                      | 1,505 / 9,378   |
| Communications                    | 22%                   | 1,919 / 8,923  | 4%                       | 393 / 9,378   |
| Management                        | 15%                   | 1,355 / 8,923  | 12%                      | 1,162 / 9,378   |
| Microsoft Excel                   | 10%                   | 890 / 8,923  | 18%                      | 1,680 / 9,378   |
| Problem Solving                   | 8%                    | 752 / 8,923  | 3%                       | 309 / 9,378   |
| Innovation                        | 8%                    | 733 / 8,923  | 1%                       | 85 / 9,378  |
| Computer Literacy                 | 8%                    | 701 / 8,923  | 1%                       | 84 / 9,378  |
| Research                          | 6%                    | 531 / 8,923  | 14%                      | 1,334 / 9,378   |
| Leadership                        | 6%                    | 506 / 8,923  | 14%                      | 1,350 / 9,378   |
| Written Communication             | 5%                    | 469 / 8,923  | 0%                       | 33 / 9,378  |
| Verbal Communication Skills       | 4%                    | 400 / 8,923  | 0%                       | 15 / 9,378  |

| Microsoft Outlook      | 4% | 398 / 8,923 | 3%  | 324 / 9,378   |
|------------------------|----|-------------|-----|---------------|
| Microsoft Office       | 4% | 376 / 8,923 | 19% | 1,737 / 9,378 |
| Interpersonal Skills   | 4% | 375 / 8,923 | 1%  | 67 / 9,378    |
| Data Analysis          | 4% | 339 / 8,923 | 5%  | 482 / 9,378   |
| Infrastructure         | 3% | 298 / 8,923 | 1%  | 101 / 9,378   |
| Mathematics            | 3% | 294 / 8,923 | 2%  | 166 / 9,378   |
| Investigation          | 3% | 285 / 8,923 | 1%  | 48 / 9,378    |
| Customer Service       | 3% | 280 / 8,923 | 13% | 1,196 / 9,378 |
| Quality Assurance      | 3% | 278 / 8,923 | 7%  | 684 / 9,378   |
| Presentations          | 3% | 274 / 8,923 | 2%  | 226 / 9,378   |
| Microsoft PowerPoint   | 3% | 273 / 8,923 | 12% | 1,098 / 9,378 |
| Driving                | 3% | 272 / 8,923 | 1%  | 73 / 9,378    |
| Construction           | 3% | 244 / 8,923 | 4%  | 358 / 9,378   |
| Reliability            | 3% | 234 / 8,923 | 2%  | 186 / 9,378   |
| Microsoft Windows      | 3% | 231 / 8,923 | 5%  | 492 / 9,378   |
| Coordinating           | 2% | 218 / 8,923 | 1%  | 139 / 9,378   |
| Office Suite           | 2% | 214 / 8,923 | 0%  | 15 / 9,378    |
| Time Management        | 2% | 204 / 8,923 | 3%  | 278 / 9,378   |
| Sales                  | 2% | 195 / 8,923 | 8%  | 719 / 9,378   |
| Information Technology | 2% | 190 / 8,923 | 2%  | 193 / 9,378   |
| Creativity             | 2% | 184 / 8,923 | 0%  | 0 / 9,378     |
| Microsoft Word         | 2% | 174 / 8,923 | 13% | 1,217 / 9,378 |
| Physics                | 2% | 165 / 8,923 | 2%  | 168 / 9,378   |
| Computer Sciences      | 2% | 144 / 8,923 | 1%  | 79 / 9,378    |
| Integration            | 1% | 133 / 8,923 | 3%  | 248 / 9,378   |
| Writing                | 1% | 133 / 8,923 | 2%  | 226 / 9,378   |
|                        |    |             |     |               |

| Sanitation         | 1% | 122 / 8,923 | 0% | 28 / 9,378  |
|--------------------|----|-------------|----|-------------|
| Prioritization     | 1% | 115 / 8,923 | 0% | 36 / 9,378  |
| Spreadsheets       | 1% | 106 / 8,923 | 0% | 29 / 9,378  |
| Decision Making    | 1% | 103 / 8,923 | 0% | 38 / 9,378  |
| Data Entry         | 1% | 98 / 8,923  | 2% | 212 / 9,378 |
| Literacy           | 1% | 95 / 8,923  | 0% | 8 / 9,378   |
| Personal Computers | 1% | 82 / 8,923  | 1% | 80 / 9,378  |
| English Language   | 1% | 80 / 8,923  | 3% | 295 / 9,378 |
| Mentorship         | 1% | 80 / 8,923  | 1% | 68 / 9,378  |
| Word Processor     | 1% | 74 / 8,923  | 0% | 33 / 9,378  |
| Spanish Language   | 1% | 68 / 8,923  | 1% | 139 / 9,378 |
| Adaptabilities     | 1% | 66 / 8,923  | 0% | 14 / 9,378  |

# **Top Qualifications**

| Qualification  | Postings with Qualification |
|--|-----------------------------|
| ASNT Non-Destructive Tester                                    | 35                          |
| Certified Welding Inspector                                    | 21                          |
| (American Society For Quality) ASQ Certified                   | 19                          |
| Professional Engineer  | 17                          |
| Commercial Driver's License (CDL)                              | 12                          |
| Certified Quality Technician                                   | 11                          |
| Certified Medical Investigator                                 | 7                           |
| Institute Of Inspection Cleaning And Restoration Certification | 7                           |
| Transportation Worker Identification Credential (TWIC) Card    | 6                           |
| Medical Technologist   | 5                           |
| Advanced Life Support  | 3                           |
| Certified IRB Manager  | 3                           |
| Certified Quality Improvement Associate (CQIA)                 | 3                           |
| Apple Certified Macintosh Technician                           | 2                           |
| Certified Information Security Manager                         | 2                           |
| Certified Information Systems Security Professional            | 2                           |
| Industry Radiography Radiation Safety Personnel                | 2                           |
| Operator Certification   | 2                           |
| Product Certification  | 2                           |
| ACCP Certified   | 1                           |
| Accredited Tax Advisor   | 1                           |
| Certified Calibration Technician                               | 1                           |
| Certified Facility Manager                                     | 1                           |
| Certified Forensic Interviewer                                 | 1                           |
| Certified Quality Engineer                                     | 1                           |
| Certified Quality Process Analyst                              | 1                           |
|  |                             |

| Certified Rehabilitation Counselor | 1 |
|------------------------------------|---|
| Certified Safety Professional      | 1 |
| Certified Welder                   | 1 |
| Cisco Certified Technician         | 1 |
| CompTIA Security+                  | 1 |
| Licensed Practical Nurse           | 1 |
| Licensed Professional Engineer     | 1 |
| Radiation Oncologist               | 1 |
| Senior Certified Welding Inspector | 1 |
| Six Sigma Green Belt Certification | 1 |

# **Appendix A - 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.

### **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.

### **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.

### **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.

#### State Data Sources

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