**Occupation Overview**

Emsi Q3 2017 Data Set

October 2017

**Bakersfield College**



1801 Panorama Drive

Bakersfield, California 93305

661.395.4921

**Parameters**

**Occupations**

12 items selected. See Appendix A for details.

**Regions**

| **Code** | **Description** |
| --- | --- |
| 12540 | Bakersfield, CA |

**Timeframe**

2014 - 2023

**Datarun**

2017.3 – Employees

12 Occupations in Bakersfield Area

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| **Occupation Summary for 12 Occupations**  |
| **5,543** | **5.0%** | **$24.37/hr** |
| **Jobs (2016)** | **% Change (2014-2023)** | **Median Hourly Earnings** |
| 4% above National average | Nation: 11.8% | Nation: $20.35/hr |

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| **Growth** |
| **5,769** | **6,055** | **286** | **5.0%** |
| **2014 Jobs** | **2023 Jobs** | **Change (2014-2023)** | **% Change (2014-2023)** |



| **Occupation** | **2014 Jobs** | **2023 Jobs** | **Change** | **% Change** |
| --- | --- | --- | --- | --- |
| Electrical and Electronics Engineering Technicians (17-3023) | 728 | 705 | -23 | -3% |
| Electro-Mechanical Technicians (17-3024) | 49 | 39 | -10 | -20% |
| Sales Engineers (41-9031) | 118 | 108 | -10 | -8% |
| Electric Motor, Power Tool, and Related Repairers (49-2092) | 39 | 31 | -8 | -21% |
| Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094) | 176 | 172 | -4 | -2% |
| Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095) | 24 | 19 | -5 | -21% |
| Control and Valve Installers and Repairers, Except Mechanical Door (49-9012) | 76 | 62 | -14 | -18% |
| Industrial Machinery Mechanics (49-9041) | 1,106 | 1,143 | 37 | 3% |
| Maintenance Workers, Machinery (49-9043) | 253 | 265 | 12 | 5% |
| Precision Instrument and Equipment Repairers, All Other (49-9069) | 11 | 11 | 0 | 0% |
| Maintenance and Repair Workers, General (49-9071) | 2,853 | 3,145 | 292 | 10% |
| Installation, Maintenance, and Repair Workers, All Other (49-9099) | 336 | 354 | 18 | 5% |

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| **Percentile Earnings** |
| **$17.44/hr** | **$24.25/hr** | **$31.57/hr** |
| **25th Percentile Earnings** | **Median Earnings** | **75th Percentile Earnings** |



| **Occupation** | **25th Percentile Earnings** | **Median Earnings** | **75th Percentile Earnings** |
| --- | --- | --- | --- |
| Electrical and Electronics Engineering Technicians (17-3023) | $31.96 | $38.52 | $46.90 |
| Electro-Mechanical Technicians (17-3024) | $28.37 | $33.97 | $40.50 |
| Sales Engineers (41-9031) | $35.75 | $53.03 | $70.04 |
| Electric Motor, Power Tool, and Related Repairers (49-2092) | $19.94 | $25.54 | $36.29 |
| Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094) | $27.12 | $31.38 | $34.35 |
| Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095) | $37.84 | $44.10 | $50.70 |
| Control and Valve Installers and Repairers, Except Mechanical Door (49-9012) | $15.16 | $33.67 | $42.65 |
| Industrial Machinery Mechanics (49-9041) | $23.67 | $29.01 | $35.93 |
| Maintenance Workers, Machinery (49-9043) | $19.12 | $23.46 | $28.04 |
| Precision Instrument and Equipment Repairers, All Other (49-9069) | $27.19 | $33.64 | $41.20 |
| Maintenance and Repair Workers, General (49-9071) | $14.89 | $19.66 | $25.89 |
| Installation, Maintenance, and Repair Workers, All Other (49-9099) | $13.35 | $16.31 | $20.40 |

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| **Regional Trends** |



|  | **Region** | **2014 Jobs** | **2023 Jobs** | **Change** | **% Change** |
| --- | --- | --- | --- | --- | --- |
| ● | Region | 5,769 | 6,055 | 286 | 5.0% |
| ● | BC Service Area DEMOGRAPHIC | 4,093 | 4,235 | 142 | 3.5% |
| ● | California | 235,728 | 269,292 | 33,564 | 14.2% |
| ● | United States | 2,363,848 | 2,643,450 | 279,602 | 11.8% |

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| **Regional Breakdown**  |



| **County** | **2023 Jobs** |
| --- | --- |
| Kern County, CA | 6,055 |

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| **Job Postings Summary** |
| **9,718** | **5 : 1** |
| **Unique Postings (Jan 2014 - Sep 2017)** | **Posting Intensity (Jan 2014 - Sep 2017)** |
| 45,732 Total Postings | Regional Average: 6 : 1 |

There were **45,732** total job postings for your selection from January 2014 to September 2017, of which **9,718** 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 lower than the Posting Intensity for all other occupations and companies in the region (6-to-1), indicating that they may not be trying as hard to hire for this position.

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| **Job Postings vs. Hires** |
| **216** | **297** |
| **Avg. Monthly Postings (Jan 2014 - Sep 2017)** | **Avg. Monthly Hires (Jan 2014 - Sep 2017)** |



| **Occupation** | **Avg Monthly Postings (Jan 2014 - Sep 2017)** | **Avg Monthly Hires (Jan 2014 - Sep 2017)** |
| --- | --- | --- |
| Maintenance and Repair Workers, General | 126 | 177 |
| Electrical and Electronics Engineering Technicians | 47 | 23 |
| Industrial Machinery Mechanics | 24 | 47 |
| Sales Engineers | 7 | 3 |
| Installation, Maintenance, and Repair Workers, All Other | 4 | 17 |
| Electrical and Electronics Repairers, Commercial and Industrial Equipment | 3 | 6 |
| Electro-Mechanical Technicians | 2 | 1 |
| Maintenance Workers, Machinery | 1 | 19 |
| Electrical and Electronics Repairers, Powerhouse, Substation, and Relay | 1 | 1 |
| Control and Valve Installers and Repairers, Except Mechanical Door | 0 | 2 |
| Precision Instrument and Equipment Repairers, All Other | 0 | 0 |
| Electric Motor, Power Tool, and Related Repairers | 0 | 1 |

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| **Occupation Gender Breakdown** |



|  | **Gender** | **2016 Jobs** | **2016 Percent** |  |
| --- | --- | --- | --- | --- |
| ● | Males | 5,204 | 93.9% |  |
| ● | Females | 338 | 6.1% |  |

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| **Occupation Age Breakdown** |



|  | **Age** | **2016 Jobs** | **2016 Percent** |  |
| --- | --- | --- | --- | --- |
| ● | 14-18 | 16 | 0.3% |  |
| ● | 19-24 | 322 | 5.8% |  |
| ● | 25-34 | 1,020 | 18.4% |  |
| ● | 35-44 | 1,170 | 21.1% |  |
| ● | 45-54 | 1,508 | 27.2% |  |
| ● | 55-64 | 1,172 | 21.1% |  |
| ● | 65+ | 335 | 6.0% |  |

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| **Occupation Race/Ethnicity Breakdown** |



|  | **Race/Ethnicity** | **2016 Jobs** | **2016 Percent** |  |
| --- | --- | --- | --- | --- |
| ● | White | 2,868 | 51.8% |  |
| ● | Hispanic or Latino | 1,992 | 35.9% |  |
| ● | Asian | 306 | 5.5% |  |
| ● | Black or African American | 253 | 4.6% |  |
| ● | Two or More Races | 74 | 1.3% |  |
| ● | American Indian or Alaska Native | 34 | 0.6% |  |
| ● | Native Hawaiian or Other Pacific Islander | 17 | 0.3% |  |

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| **Occupational Programs**  |
| **8** | **121** | **584** |
| **Programs (2016)** | **Completions (2016)** | **Openings (2016)** |
| **CIP Code** | **Program** | **Completions (2016)** |
| 47.0101 | Electrical/Electronics Equipment Installation and Repair, General | 67 |
| 15.9999 | Engineering Technologies and Engineering-Related Fields, Other | 35 |
| 47.0104 | Computer Installation and Repair Technology/Technician | 11 |
| 46.0302 | Electrician | 8 |
| 15.0000 | Engineering Technology, General | 0 |

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| **Industries Employing 12 Occupations** |
| **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 | 468 | 8.4% | 3.5% |
| Federal Government, Civilian, Excluding Postal Service | 323 | 5.8% | 3.5% |
| Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance  | 212 | 3.8% | 26.5% |
| Crop Production | 176 | 3.2% | 1.0% |
| Elementary and Secondary Schools (Local Government) | 164 | 3.0% | 0.7% |

**Appendix A - Occupations**

| **Code** | **Description** |
| --- | --- |
| 17-3023 | Electrical and Electronics Engineering Technicians |
| 17-3024 | Electro-Mechanical Technicians |
| 41-9031 | Sales Engineers |
| 49-2094 | Electrical and Electronics Repairers, Commercial and Industrial Equipment |
| 49-2095 | Electrical and Electronics Repairers, Powerhouse, Substation, and Relay |
| 49-9012 | Control and Valve Installers and Repairers, Except Mechanical Door |
| 49-2092 | Electric Motor, Power Tool, and Related Repairers |
| 49-9041 | Industrial Machinery Mechanics |
| 49-9043 | Maintenance Workers, Machinery |
| 49-9069 | Precision Instrument and Equipment Repairers, All Other |
| 49-9071 | Maintenance and Repair Workers, General |
| 49-9099 | Installation, Maintenance, and Repair Workers, All Other |

**Appendix B - 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.

**CareerBuilder/Emsi Job Postings**

Job postings are collected from various sources and processed/enriched by Careerbuilder to provide information such as standardized company name, occupation, skills, and geography. Emsi performs additional filtering and processing to improve compatibility with Emsi data.

**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