# Occupation Overview

Emsi Q3 2019 Data Set

October 2019

**Contra Costa Community College District**

# Parameters

## Occupations


## Regions


## Timeframe

2019 - 2024


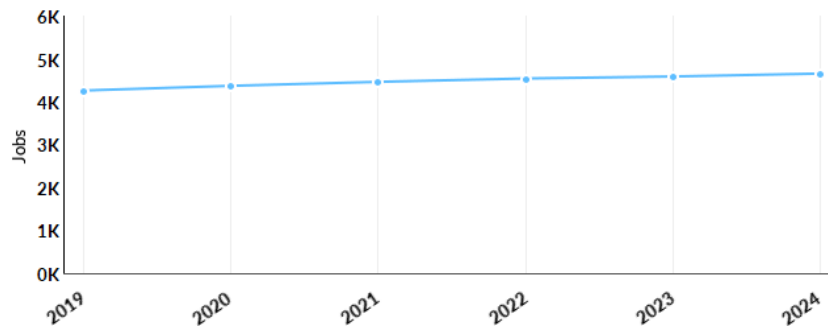## Datarun

2019.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed

## Occupation Summary for 4 Occupations

| 4,255 | 9.3% | $27.34/hr |
|:---:|:---:|:---:|
| **Jobs (2019)** | **% Change (2019-2024)** | **Median Hourly Earnings** |
| 14% below National average | Nation: 6.3% | Nation: $22.66/hr |

# Growth

| 4,255 | 4,649 | 394 | 9.3% |
|:---:|:---:|:---:|:---:|
| **2019 Jobs** | **2024 Jobs** | **Change (2019-2024)** | **% Change (2019-2024)** |



| Occupation | 2019 Jobs | 2024 Jobs | Change | % Change |
|:---|:---:|:---:|:---:|:---:|
| Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021) | 2,918 | 3,247 | 329 | 11% |
| Home Appliance Repairers (49-9031) | 255 | 260 | 5 | 2% |
| Maintenance Workers, Machinery (49-9043) | 609 | 659 | 50 | 8% |
| Stationary Engineers and Boiler Operators (51-8021) | 473 | 483 | 10 | 2% |

## Percentile Earnings

| $20.44/hr | $27.34/hr | $39.58/hr |
|:---:|:---:|:---:|
| **25th Percentile Earnings** | **Median Earnings** | **75th Percentile Earnings** |



| Occupation | 25th Percentile Earnings | Median Earnings | 75th Percentile Earnings |
|---|---|---|---|
| Heating, Air Conditioning, and Refrigeration Mechanics and Installers (49-9021) | $19.89 | $25.75 | $35.92 |
| Home Appliance Repairers (49-9031) | $13.87 | $21.60 | $28.28 |
| Maintenance Workers, Machinery (49-9043) | $19.87 | $27.25 | $37.19 |
| Stationary Engineers and Boiler Operators (51-8021) | $37.92 | $43.44 | $50.34 |
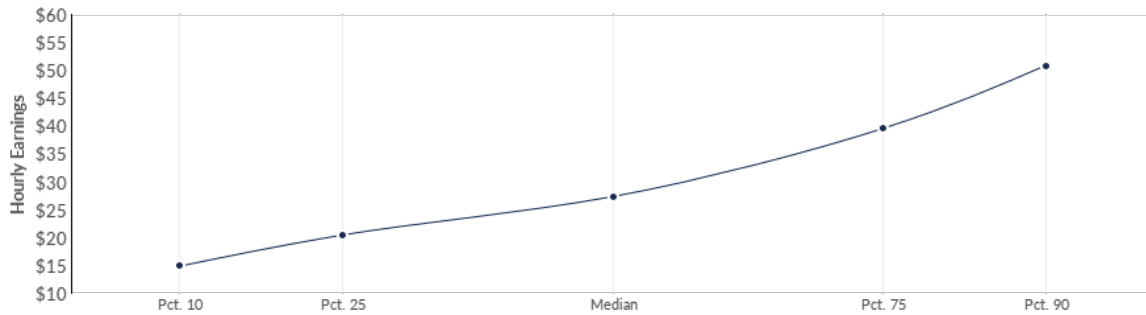
# Regional Trends
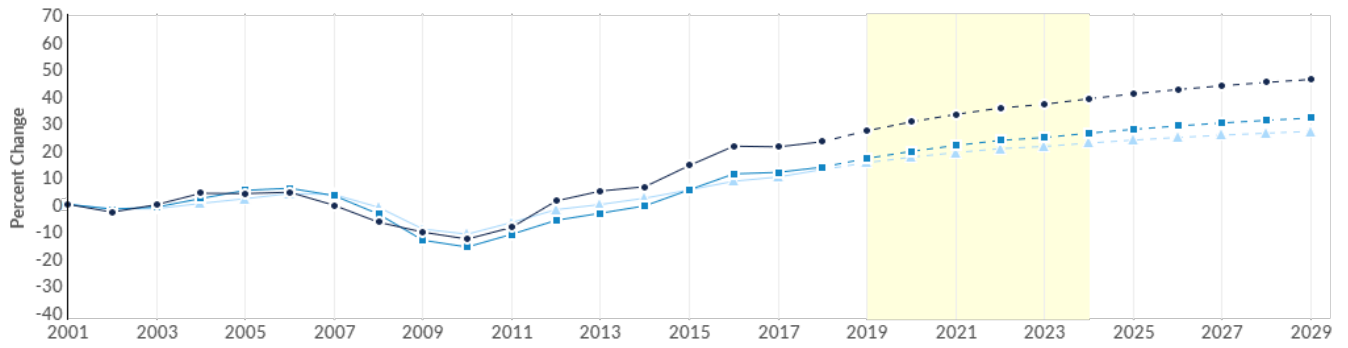


| Region | 2019 Jobs | 2024 Jobs | Change | % Change |
|---|---|---|---|---|
| ● Region | 4,255 | 4,649 | 394 | 9.3% |
| ● California | 50,095 | 54,085 | 3,990 | 8.0% |
| ● United States | 548,730 | 583,159 | 34,429 | 6.3% |

# Regional Breakdown



| County | 2024 Jobs |
|---|---|
| Alameda County, CA | 2,703 |
| Contra Costa County, CA | 1,262 |
| Solano County, CA | 685 |

# Job Postings Summary

| 763 | 4 : 1 | 42 days |
|:---:|:---:|:---:|
| **Unique Postings** | **Posting Intensity** | **Median Posting Duration** |
| | Regional Average: 4 : 1 | |
| 3,112 Total Postings | | Regional Average: 33 days |

There were **3,112** total job postings for your selection from January 2019 to September 2019, of which **763** were unique. These numbers give us a Posting Intensity of **4-to-1**, meaning that for every 4 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.

# Job Postings vs. Hires
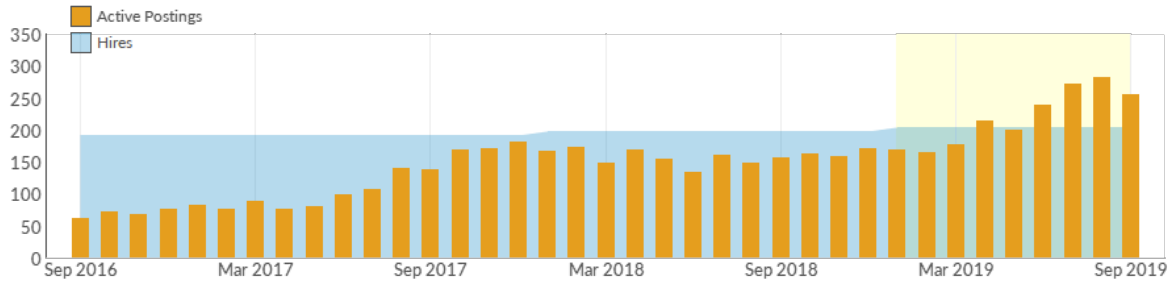
| **219** | **205** |
|:---:|:---:|
| Avg. Monthly Postings (Jan 2019 - Sep 2019) | Avg. Monthly Hires (Jan 2019 - Sep 2019) |



| Occupation | Avg Monthly Postings (Jan 2019 - Sep 2019) | Avg Monthly Hires (Jan 2019 - Sep 2019) |
|---|:---:|:---:|
| Heating, Air Conditioning, and Refrigeration Mechanics and Installers | 169 | 156 |
| Home Appliance Repairers | 34 | 8 |
| Stationary Engineers and Boiler Operators | 16 | 15 |
| Maintenance Workers, Machinery | 0 | 0 |

# Occupation Gender Breakdown
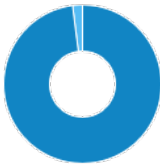
| | Gender | 2018 Jobs | 2018 Percent | |
|---|---|---|---|---|
| ● | Males | 4,036 | 98.0% | ▬▬▬▬▬ |
| ● | Females | 83 | 2.0% | ▮ |

# Occupation Age Breakdown



| | Age | 2018 Jobs | 2018 Percent | |
|---|---|---|---|---|
| ● | 14-18 | 13 | 0.3% | |
| ● | 19-24 | 266 | 6.4% | |
| ● | 25-34 | 904 | 21.9% | |
| ● | 35-44 | 1,030 | 25.0% | |
| ● | 45-54 | 1,006 | 24.4% | |
| ● | 55-64 | 717 | 17.4% | |
| ● | 65+ | 184 | 4.5% | |

# Occupation Race/Ethnicity Breakdown
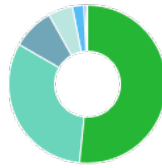


| | Race/Ethnicity | 2018 Jobs | 2018 Percent | |
|---|---|---|---|---|
| ● | White | 2,126 | 51.6% | |
| ● | Hispanic or Latino | 1,306 | 31.7% | |
| ● | Asian | 353 | 8.6% | |
| ● | Black or African American | 207 | 5.0% | |
| ● | Two or More Races | 96 | 2.3% | |
| ● | Native Hawaiian or Other Pacific Islander | 16 | 0.4% | |
| ● | American Indian or Alaska Native | 16 | 0.4% | |

# Occupational Programs

| 5 | 502 | 546 |
|---|---|---|
| **Programs (2017)** | **Completions (2017)** | **Openings (2017)** |

| CIP Code | Program | Completions (2017) |
|---|---|---|
| 14.1901 | Mechanical Engineering | 385 |
| 15.0501 | Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technology/Technician | 56 |
| 47.0106 | Appliance Installation and Repair Technology/Technician | 48 |
| 47.0201 | Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician | 13 |
| 19.0605 | Home Furnishings and Equipment Installers | 0 |

# Industries Employing 4 Occupations

| Industry | Occupation Group Jobs in Industry (2018) | % of Occupation Group in Industry (2018) | % of Total Jobs in Industry (2018) |
|---|---|---|---|
| Plumbing, Heating, and Air-Conditioning Contractors | 2,017 | 49.0% | 14.5% |
| Local Government, Excluding Education and Hospitals | 107 | 2.6% | 0.2% |
| Other Personal and Household Goods Repair and Maintenance | 95 | 2.3% | 9.5% |
| Residential Remodelers | 80 | 1.9% | 0.8% |
| Automobile Manufacturing | 78 | 1.9% | 0.5% |

# 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.

## 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.

## 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