

# 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

## 2 Architecture and Engineering Occupations in 3 California Counties

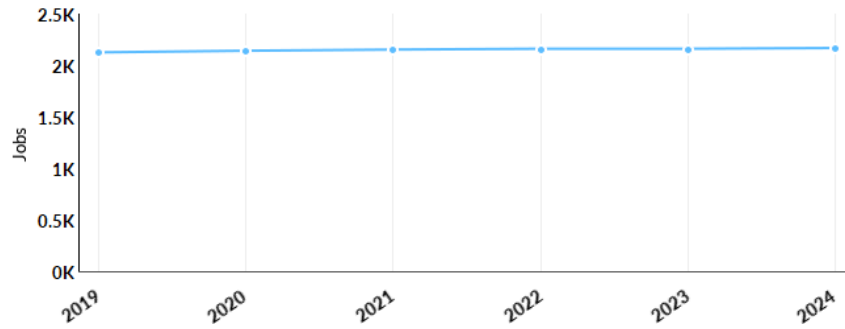
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# Occupation Summary for 2 Architecture and Engineering Occupations

<b>2,124</b> Jobs (2019) 53% above National average	<b>2.0%</b> % Change (2019-2024) Nation: 3.1%	<b>\$28.52/hr</b> Median Hourly Earnings Nation: \$30.52/hr
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## Growth

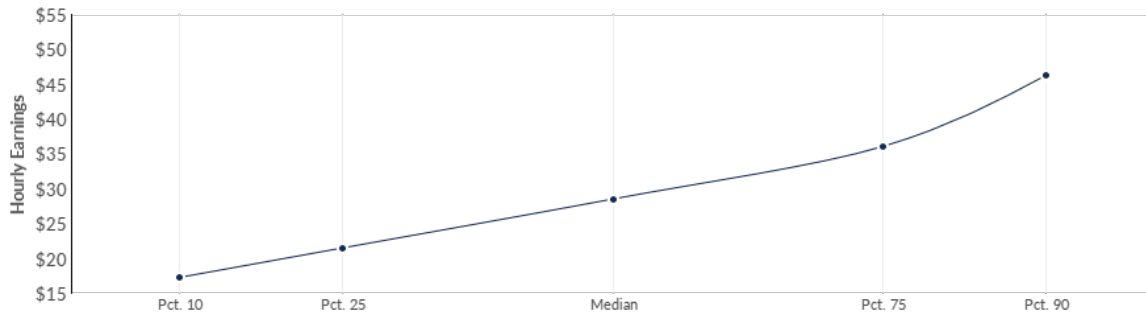
<b>2,124</b> 2019 Jobs	<b>2,166</b> 2024 Jobs	<b>42</b> Change (2019-2024)	<b>2.0%</b> % Change (2019-2024)
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Occupation	2019 Jobs	2024 Jobs	Change	% Change
Electrical and Electronics Engineering Technicians (17-3023)	1,968	2,001	33	2%
Electro-Mechanical Technicians (17-3024)	156	166	10	6%

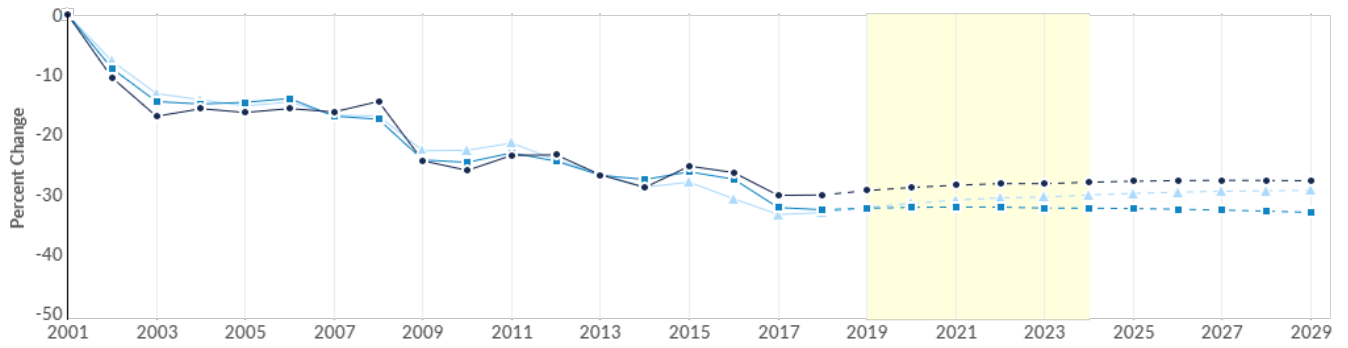
## Percentile Earnings

<b>\$21.49/hr</b> 25th Percentile Earnings	<b>\$28.52/hr</b> Median Earnings	<b>\$36.08/hr</b> 75th Percentile Earnings
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Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Electrical and Electronics Engineering Technicians (17-3023)	\$21.24	\$28.28	\$35.80
Electro-Mechanical Technicians (17-3024)	\$25.26	\$31.19	\$38.97

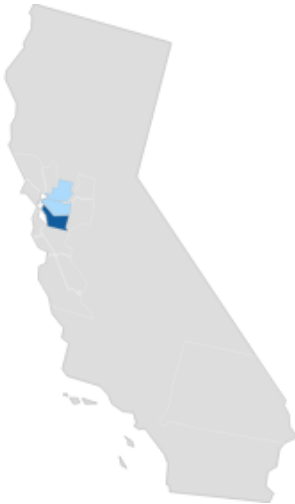
# Regional Trends



	Region	2019 Jobs	2024 Jobs	Change	% Change
●	Region	2,124	2,166	42	2.0%
●	California	26,591	26,592	1	0.0%
●	United States	152,956	157,628	4,672	3.1%

# Regional Breakdown

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County	2024 Jobs
Alameda County, CA	1,614
Contra Costa County, CA	371
Solano County, CA	181

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## Job Postings Summary

<p><b>845</b></p> <p><b>Unique Postings</b></p> <p>4,507 Total Postings</p>	<p><b>5 : 1</b></p> <p><b>Posting Intensity</b></p> <p>Regional Average: 4 : 1</p> 	<p><b>35 days</b></p> <p><b>Median Posting Duration</b></p> <p>Regional Average: 33 days</p>
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There were **4,507** total job postings for your selection from January 2019 to September 2019, of which **845** 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.

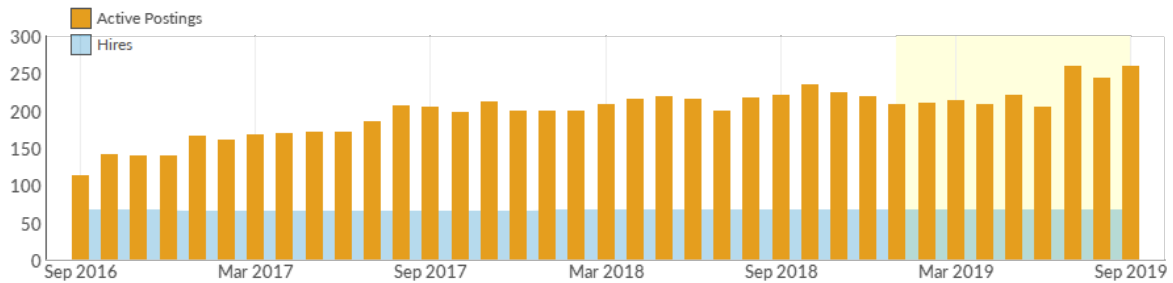
## Job Postings vs. Hires

**225**

**Avg. Monthly Postings (Jan 2019 - Sep 2019)**

**68**

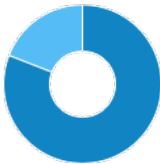
**Avg. Monthly Hires (Jan 2019 - Sep 2019)**



Occupation	Avg Monthly Postings (Jan 2019 - Sep 2019)	Avg Monthly Hires (Jan 2019 - Sep 2019)
Electrical and Electronics Engineering Technicians	202	63
Electro-Mechanical Technicians	23	5

# Occupation Gender Breakdown

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	Gender	2018 Jobs	2018 Percent	
•	Males	1,700	80.9%	
•	Females	402	19.1%	

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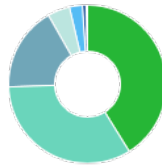
## Occupation Age Breakdown

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	Age	2018 Jobs	2018 Percent
●	14-18	5	0.2%
●	19-24	109	5.2% ■
●	25-34	355	16.9% ■■
●	35-44	432	20.6% ■■■
●	45-54	584	27.8% ■■■■
●	55-64	511	24.3% ■■■■
●	65+	105	5.0% ■

# Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2018 Jobs	2018 Percent
●	White	865	41.1%
●	Asian	700	33.3%
●	Hispanic or Latino	364	17.3%
●	Black or African American	96	4.6%
●	Two or More Races	55	2.6%
●	Native Hawaiian or Other Pacific Islander	16	0.8%
●	American Indian or Alaska Native	6	0.3%

## Occupational Programs

<b>7</b> Programs (2017)		<b>22</b> Completions (2017)	<b>196</b> Openings (2017)
CIP Code	Program	Completions (2017)	
15.0000	Engineering Technology, General	11	
15.9999	Engineering Technologies and Engineering-Related Fields, Other	11	
15.0303	Electrical, Electronic and Communications Engineering Technology/Technician	0	
15.0305	Telecommunications Technology/Technician	0	
15.0399	Electrical and Electronic Engineering Technologies/Technicians, Other	0	

## Industries Employing 2 Architecture and Engineering Occupations

Industry	Occupation Group Jobs in Industry (2018)	% of Occupation Group in Industry (2018)	% of Total Jobs in Industry (2018)
Engineering Services	202	9.6%	1.6%
Printed Circuit Assembly (Electronic Assembly) Manufacturing	120	5.7%	5.2%
Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)	113	5.4%	0.9%
Semiconductor and Related Device Manufacturing	106	5.0%	5.2%
US Postal Service	81	3.9%	1.4%

# 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