

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

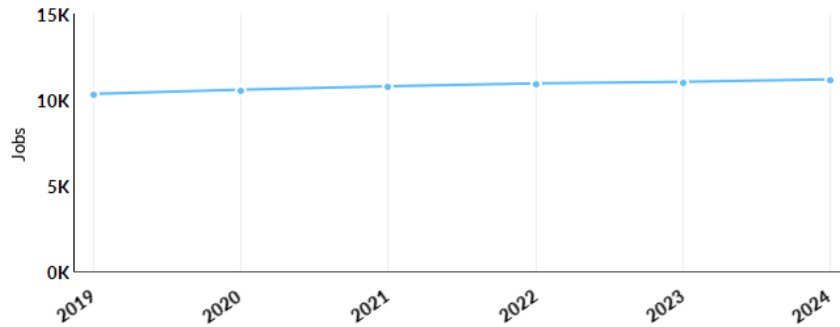
3 Occupations in 3 California Counties

Occupation Summary for 3 Occupations

10,327 Jobs (2019) 18% above National average	8.2% % Change (2019-2024) Nation: 4.9%	\$34.20/hr Median Hourly Earnings Nation: \$26.97/hr
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Growth

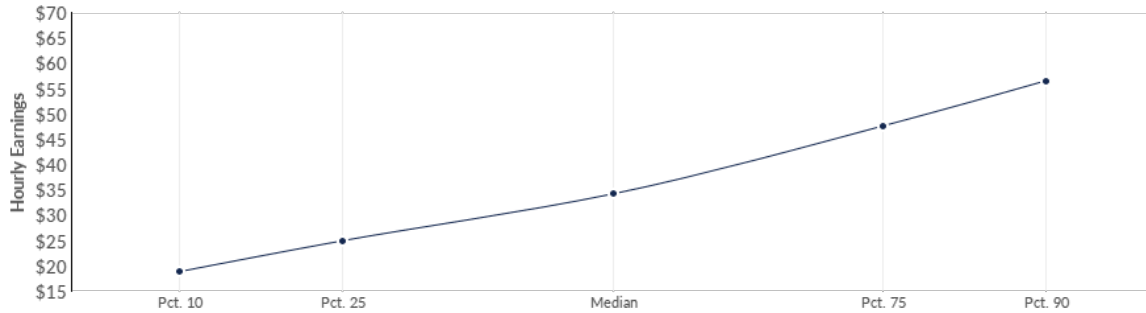
10,327 2019 Jobs	11,171 2024 Jobs	844 Change (2019-2024)	8.2% % Change (2019-2024)
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Occupation	2019 Jobs	2024 Jobs	Change	% Change
Electrical and Electronics Engineering Technicians (17-3023)	1,968	2,001	33	2%
Electricians (47-2111)	7,885	8,679	794	10%
Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)	473	492	19	4%

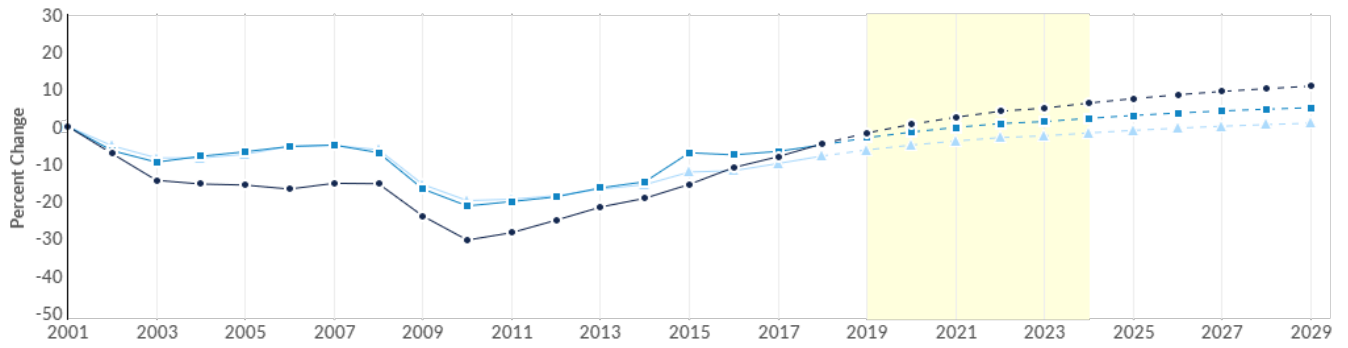
Percentile Earnings

\$24.96/hr 25th Percentile Earnings	\$34.20/hr Median Earnings	\$47.64/hr 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
Electricians (47-2111)	\$26.57	\$36.74	\$50.07
Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)	\$20.77	\$32.92	\$43.82

Regional Trends




	Region	2019 Jobs	2024 Jobs	Change	% Change
●	Region	10,327	11,171	844	8.2%
●	California	111,367	117,355	5,988	5.4%
●	United States	964,400	1,011,322	46,922	4.9%

Regional Breakdown



County	2024 Jobs
Alameda County, CA	7,157
Contra Costa County, CA	2,547
Solano County, CA	1,468

Job Postings Summary

1,609 Unique Postings 7,346 Total Postings	5 : 1 Posting Intensity Regional Average: 4 : 1 	35 days Median Posting Duration Regional Average: 33 days
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There were **7,346** total job postings for your selection from January 2019 to September 2019, of which **1,609** 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.

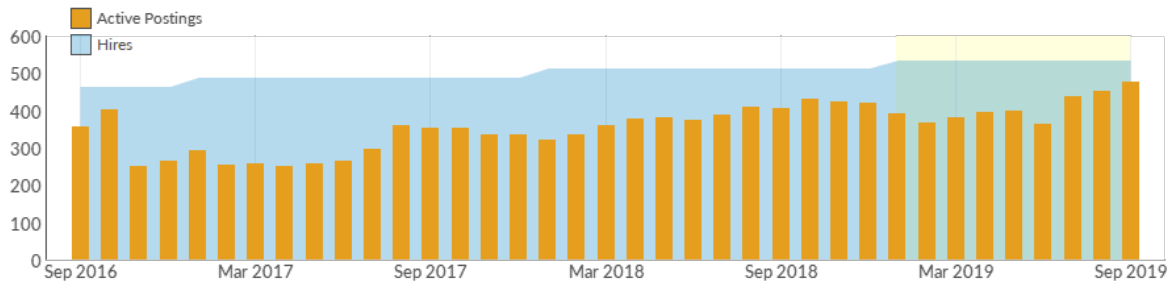
Job Postings vs. Hires

407

Avg. Monthly Postings (Jan 2019 - Sep 2019)

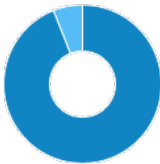
531

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
Electricians	195	451
Electrical and Electronics Repairers, Commercial and Industrial Equipment	11	17

Occupation Gender Breakdown



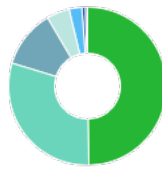
	Gender	2018 Jobs	2018 Percent
•	Males	9,419	94.0% 
•	Females	605	6.0% 

Occupation Age Breakdown



	Age	2018 Jobs	2018 Percent
●	14-18	30	0.3%
●	19-24	737	7.4% ■
●	25-34	2,406	24.0% ■■
●	35-44	2,471	24.7% ■■■
●	45-54	2,304	23.0% ■■■
●	55-64	1,686	16.8% ■■
●	65+	391	3.9% ■

Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2018 Jobs	2018 Percent	
●	White	4,986	49.7%	<div style="width: 49.7%;"></div>
●	Hispanic or Latino	3,002	29.9%	<div style="width: 29.9%;"></div>
●	Asian	1,187	11.8%	<div style="width: 11.8%;"></div>
●	Black or African American	470	4.7%	<div style="width: 4.7%;"></div>
●	Two or More Races	261	2.6%	<div style="width: 2.6%;"></div>
●	Native Hawaiian or Other Pacific Islander	72	0.7%	<div style="width: 0.7%;"></div>
●	American Indian or Alaska Native	45	0.5%	<div style="width: 0.5%;"></div>

Occupational Programs

10 Programs (2017)		91 Completions (2017)	1,537 Openings (2017)
CIP Code	Program	Completions (2017)	
47.0105	Industrial Electronics Technology/Technician	48	
46.0302	Electrician	32	
15.0000	Engineering Technology, General	11	
15.0303	Electrical, Electronic and Communications Engineering Technology/Technician	0	
15.0305	Telecommunications Technology/Technician	0	

Industries Employing 3 Occupations

Industry	Occupation Group Jobs in Industry (2018)	% of Occupation Group in Industry (2018)	% of Total Jobs in Industry (2018)
Electrical Contractors and Other Wiring Installation Contractors	5,295	52.8%	47.1%
Automobile Manufacturing	339	3.4%	2.4%
Engineering Services	220	2.2%	1.8%
Local Government, Excluding Education and Hospitals	204	2.0%	0.4%
Plumbing, Heating, and Air-Conditioning Contractors	184	1.8%	1.3%

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