

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

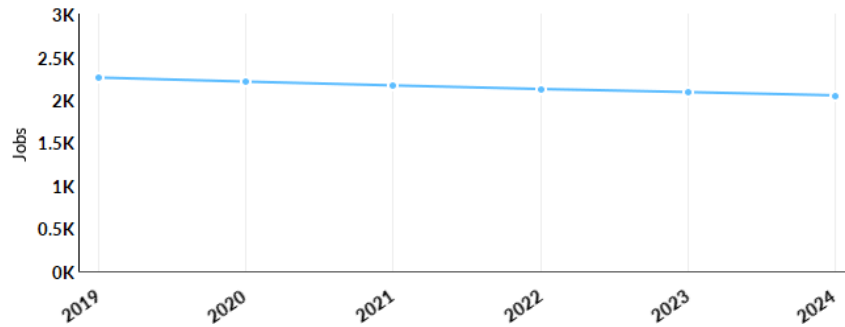
3 Production Occupations in 3 California Counties

Occupation Summary for 3 Production Occupations

2,255 Jobs (2019) 61% above National average	-9.2% % Change (2019-2024) Nation: 0.3%	\$42.43/hr Median Hourly Earnings Nation: \$27.19/hr
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Growth

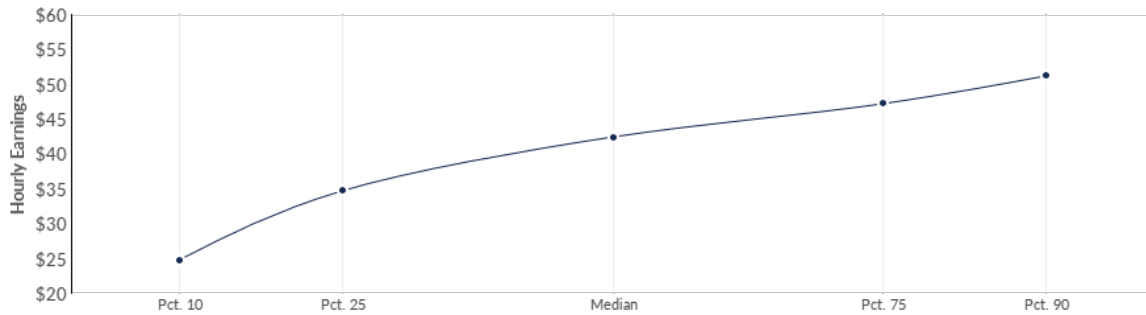
2,255 2019 Jobs	2,048 2024 Jobs	-207 Change (2019-2024)	-9.2% % Change (2019-2024)
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Occupation	2019 Jobs	2024 Jobs	Change	% Change
Chemical Plant and System Operators (51-8091)	180	188	8	4%
Petroleum Pump System Operators, Refinery Operators, and Gaugers (51-8093)	1,688	1,443	-245	-15%
Chemical Equipment Operators and Tenders (51-9011)	388	417	29	7%

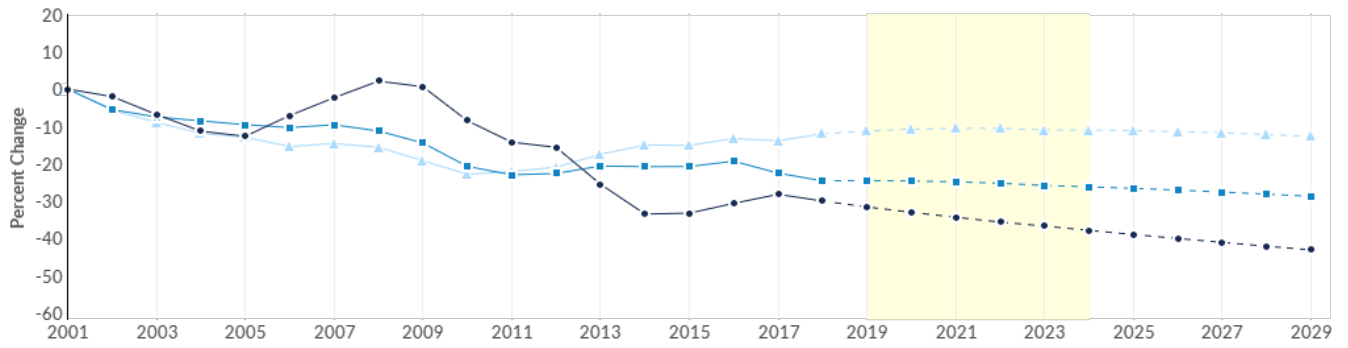
Percentile Earnings

\$34.69/hr 25th Percentile Earnings	\$42.43/hr Median Earnings	\$47.21/hr 75th Percentile Earnings
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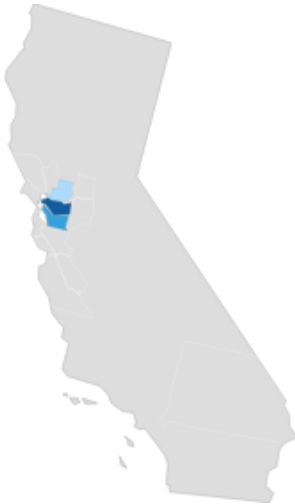
Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Chemical Plant and System Operators (51-8091)	\$17.09	\$33.27	\$41.12
Petroleum Pump System Operators, Refinery Operators, and Gaugers (51-8093)	\$39.67	\$43.91	\$47.98
Chemical Equipment Operators and Tenders (51-9011)	\$20.35	\$28.73	\$38.74

Regional Trends




	Region	2019 Jobs	2024 Jobs	Change	% Change
●	Region	2,255	2,048	-207	-9.2%
●	California	8,999	8,800	-199	-2.2%
●	United States	154,196	154,602	406	0.3%

Regional Breakdown



County	2024 Jobs
Contra Costa County, CA	1,449
Alameda County, CA	375
Solano County, CA	224

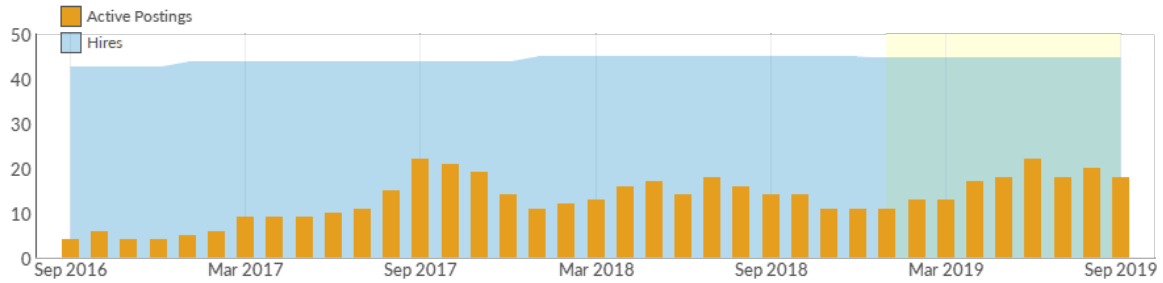
Job Postings Summary

53 Unique Postings 315 Total Postings	6 : 1 Posting Intensity Regional Average: 4 : 1 	47 days Median Posting Duration Regional Average: 33 days
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There were **315** total job postings for your selection from January 2019 to September 2019, of which **53** were unique. These numbers give us a Posting Intensity of **6-to-1**, meaning that for every 6 postings there is 1 unique job posting. This is higher than the Posting Intensity for all other occupations and companies in the region (4-to-1), indicating that they may be trying harder to hire for this position.

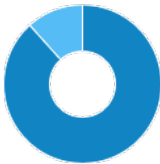
Job Postings vs. Hires

17 Avg. Monthly Postings (Jan 2019 - Sep 2019)	45 Avg. Monthly Hires (Jan 2019 - Sep 2019)
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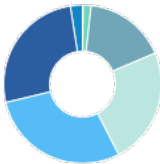
Occupation	Avg Monthly Postings (Jan 2019 - Sep 2019)	Avg Monthly Hires (Jan 2019 - Sep 2019)
Chemical Plant and System Operators	11	6
Chemical Equipment Operators and Tenders	3	11
Petroleum Pump System Operators, Refinery Operators, and Gaugers	3	28

Occupation Gender Breakdown



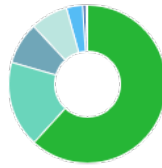
	Gender	2018 Jobs	2018 Percent	
•	Males	2,038	88.3%	
•	Females	270	11.7%	

Occupation Age Breakdown



	Age	2018 Jobs	2018 Percent
●	14-18	3	0.1%
●	19-24	38	1.6%
●	25-34	388	16.8% █
●	35-44	551	23.9% █
●	45-54	665	28.8% █
●	55-64	605	26.2% █
●	65+	58	2.5%

Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2018 Jobs	2018 Percent
●	White	1,426	61.8%
●	Hispanic or Latino	407	17.6%
●	Asian	198	8.6%
●	Black or African American	176	7.6%
●	Two or More Races	77	3.3%
●	Native Hawaiian or Other Pacific Islander	16	0.7%
●	American Indian or Alaska Native	7	0.3%

Occupational Programs

1			1			300		
Programs (2017)			Completions (2017)			Openings (2017)		
CIP Code	Program					Completions (2017)		
41.0301	Chemical Technology/Technician					1		

Industries Employing 3 Production Occupations

Industry	Occupation Group Jobs in Industry (2018)	% of Occupation Group in Industry (2018)	% of Total Jobs in Industry (2018)
Petroleum Refineries	1,477	64.0%	30.8%
Pharmaceutical Preparation Manufacturing	162	7.0%	2.8%
All Other Miscellaneous Chemical Product and Preparation Manufacturing	69	3.0%	11.7%
Pipeline Transportation of Refined Petroleum Products	62	2.7%	54.4%
Natural Gas Distribution	56	2.4%	1.1%

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