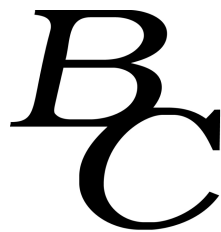


# Occupation Overview

Emsi Q1 2018 Data Set

April 2018

Bakersfield College



Bakersfield  
COLLEGE



1801 Panorama Drive  
Bakersfield, California 93305  
661.395.4921

# Parameters

## Occupations

Code	Description
51-8031	Water and Wastewater Treatment Plant and System Operators
51-8091	Chemical Plant and System Operators
51-8092	Gas Plant Operators
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers
51-8099	Plant and System Operators, All Other

## Regions

Code	Description
6029	Kern County, CA

## Timeframe

2018 - 2023

## Datarun

2018.1 - QCEW Employees, Non-QCEW Employees, Self-Employed, and Extended Proprietors

## 5 Production Occupations in Kern County, CA

### Occupation Summary for 5 Production Occupations

<p>857</p> <p>Jobs (2018)</p> <p>85% <b>above</b> National average</p>	<p>+2.8%</p> <p>% Change (2018-2023)</p> <p>Nation: +3.0%</p>	<p>\$31.27/hr</p> <p>Median Hourly Earnings</p> <p>Nation: \$25.77/hr</p>
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# Growth

857

2018 Jobs

881

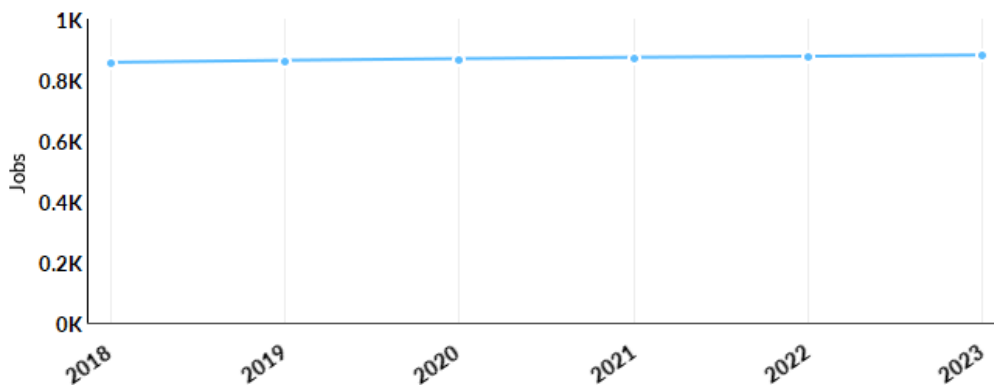
2023 Jobs

24

Change (2018-2023)

2.8%

% Change (2018-2023)



Occupation	2018 Jobs	2023 Jobs	Change	% Change
Water and Wastewater Treatment Plant and System Operators (51-8031)	248	256	8	3%
Chemical Plant and System Operators (51-8091)	92	95	3	3%
Gas Plant Operators (51-8092)	39	41	2	5%
Petroleum Pump System Operators, Refinery Operators, and Gaugers (51-8093)	427	437	10	2%
Plant and System Operators, All Other (51-8099)	51	51	0	0%

## Percentile Earnings

\$24.07/hr

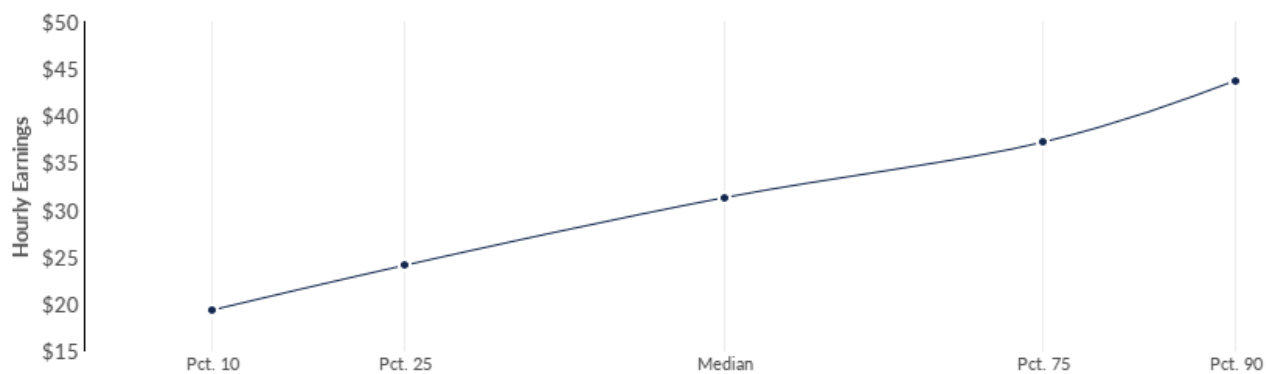
25th Percentile Earnings

\$31.27/hr

Median Earnings

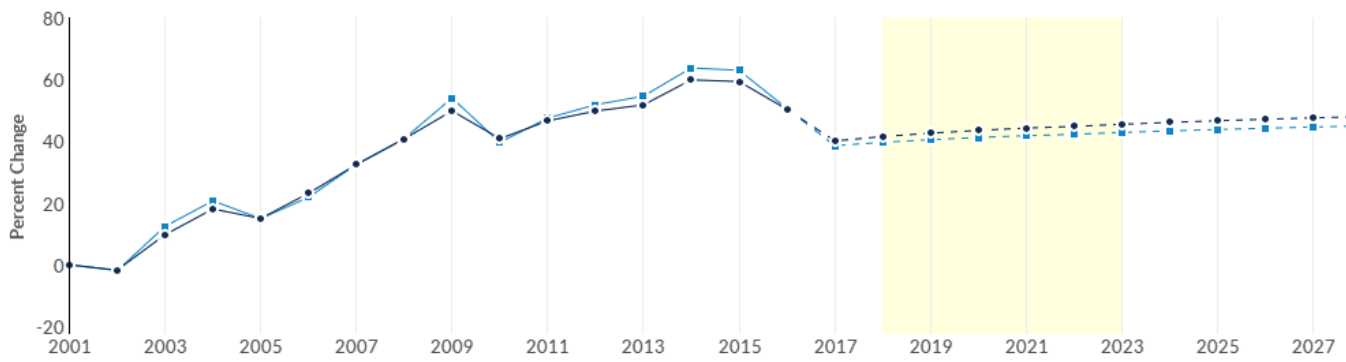
\$37.20/hr

75th Percentile Earnings



Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Water and Wastewater Treatment Plant and System Operators (51-8031)	\$20.92	\$27.66	\$33.83
Chemical Plant and System Operators (51-8091)	\$25.81	\$29.71	\$36.99
Gas Plant Operators (51-8092)	\$28.31	\$35.93	\$49.76
Petroleum Pump System Operators, Refinery Operators, and Gaugers (51-8093)	\$25.17	\$33.18	\$38.35
Plant and System Operators, All Other (51-8099)	\$24.79	\$32.99	\$43.76

## Regional Trends



Region	2018 Jobs	2023 Jobs	Change	% Change
● Region	857	881	24	2.8%
■ BC Service Area DEMOGRAPHIC	617	631	14	2.3%
▲ Kern County	857	881	24	2.8%

## Regional Breakdown



\* Highlighted areas show counties that contain the selected zip codes

ZIP	2023 Jobs
Bakersfield, CA 93308 (in Kern county)	229
Bakersfield, CA 93307 (in Kern county)	102
Bakersfield, CA 93311 (in Kern county)	63
Taft, CA 93268 (in Kern county)	57
Bakersfield, CA 93309 (in Kern county)	44

## Job Postings Summary

42

Unique Postings (Jan 2018 - Feb 2018)

131 Total Postings

3 : 1

Posting Intensity (Jan 2018 - Feb 2018)



There were 131 total job postings for your selection from January 2018 to February 2018, of which 42 were unique. These numbers give us a Posting Intensity of 3-to-1, meaning that for every 3 postings there is 1 unique job posting.

This is lower than the Posting Intensity for all other occupations and companies in the region (7-to-1), indicating that they may not be trying as hard to hire for this position.



## Job Postings vs. Hires

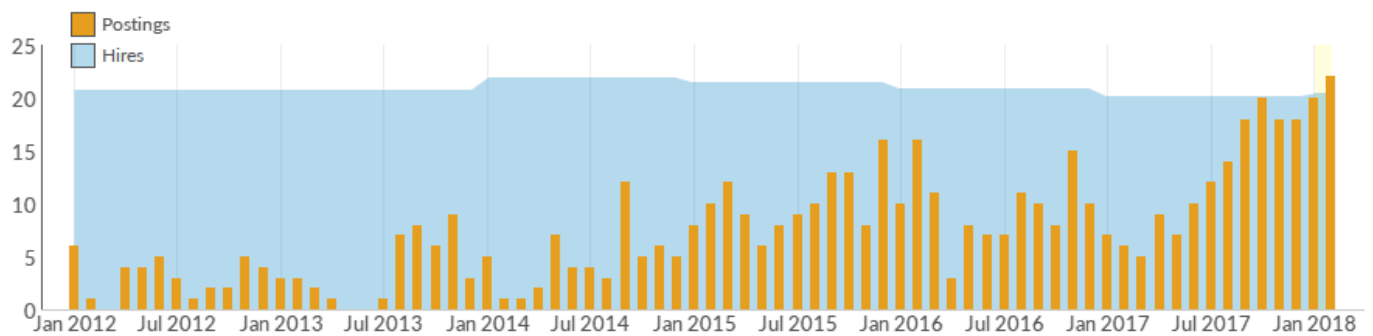
21

Avg. Monthly Postings (Jan 2018 - Feb 2018)

20

Avg. Monthly Hires (Jan 2018 - Feb 2018)

In an average month, there were 21 unique job postings for 5 Occupations, and 20 actually hired. This means there was approximately 1 hire for every 1 unique job posting for 5 Occupations.



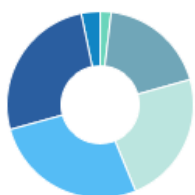
Occupation	Avg Monthly Postings (Jan 2018 - Feb 2018)	Avg Monthly Hires (Jan 2018 - Feb 2018)
Water and Wastewater Treatment Plant and System Operators	11	8
Chemical Plant and System Operators	11	2
Plant and System Operators, All Other	0	1
Gas Plant Operators	0	1
Petroleum Pump System Operators, Refinery Operators, and Gaugers	0	8

## Occupation Gender Breakdown



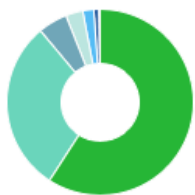
Gender	2017 Jobs	2017 Percent
Males	790	93.1%
Females	58	6.9%

## Occupation Age Breakdown



Age	2017 Jobs	2017 Percent
14-18	0	0.0%
19-24	16	1.9%
25-34	159	18.7%
35-44	196	23.1%
45-54	228	26.9%
55-64	221	26.0%
65+	28	3.3%

## Occupation Race/Ethnicity Breakdown



Race/Ethnicity	2017 Jobs	2017 Percent
White	501	59.1%
Hispanic or Latino	253	29.8%
Black or African American	43	5.1%
Asian	25	3.0%
Two or More Races	16	1.9%
American Indian or Alaska Native	7	0.9%
Native Hawaiian or Other Pacific Islander	2	0.2%

## Occupational Programs

2 Programs (2016)	0 Completions (2016)	86 Openings (2016)
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CIP Code	Program	Completions (2016)
15.0903	Petroleum Technology/Technician	0
41.0301	Chemical Technology/Technician	0

## Industries Employing 5 Production Occupations

Industry	Occupation Group Jobs in Industry (2017)	% of Occupation Group in Industry (2017)	% of Total Jobs in Industry (2017)
Petroleum Refineries	192	22.6%	23.0%
Local Government, Excluding Education and Hospitals	179	21.1%	1.3%
Pipeline Transportation of Crude Oil	74	8.7%	26.9%
Crude Petroleum Extraction	55	6.5%	1.6%
Water Supply and Irrigation Systems	49	5.8%	16.3%

# 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.

## 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.

## 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