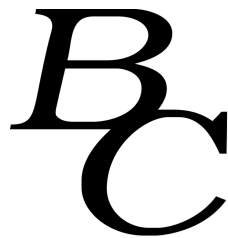


# Occupation Overview

Emsi Q3 2018 Data Set

September 2018

Bakersfield College



Bakersfield  
COLLEGE



1801 Panorama Drive  
Bakersfield, California 93305  
661.395.4921

# Parameters

## Occupations

Code	Description
17-3027	Mechanical Engineering Technicians
17-3029	Engineering Technicians, Except Drafters, All Other
17-3023	Electrical and Electronics Engineering Technicians
17-3026	Industrial Engineering Technicians
17-3022	Civil Engineering Technicians

## Regions

Code	Description
6029	Kern County, CA

## Timeframe

2018 - 2023

## Datarun

2018.3 – QCEW Employees, Non-QCEW Employees, Self-Employed, and Extended Proprietors

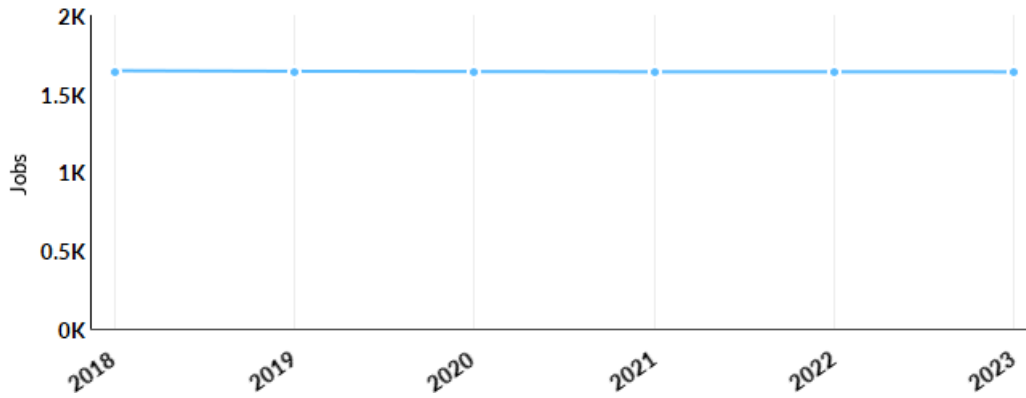
## 5 Architecture and Engineering Occupations in Kern County, CA

### Occupation Summary for 5 Architecture and Engineering Occupations

<p>1,645 Jobs (2018) 87% <b>above</b> National average</p>	<p><b>-0.5%</b> % Change (2018-2023) Nation: <b>+3.7%</b></p>	<p>\$37.25/hr Median Hourly Earnings Nation: \$28.17/hr</p>
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# Growth

1,645 2018 Jobs	1,637 2023 Jobs	-8 Change (2018-2023)	-0.5% % Change (2018-2023)
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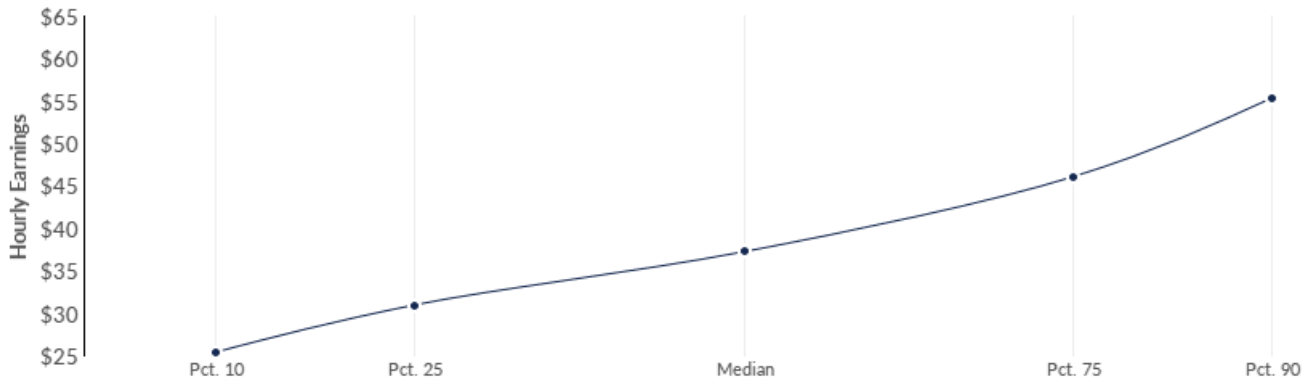
Occupation	2018 Jobs	2023 Jobs	Change	% Change
Civil Engineering Technicians (17-3022)	126	143	17	13%
Electrical and Electronics Engineering Technicians (17-3023)	833	811	-22	-3%
Industrial Engineering Technicians (17-3026)	66	68	2	3%
Mechanical Engineering Technicians (17-3027)	56	57	1	2%
Engineering Technicians, Except Drafters, All Other (17-3029)	563	558	-5	-1%

## Percentile Earnings

\$30.96/hr  
25th Percentile Earnings

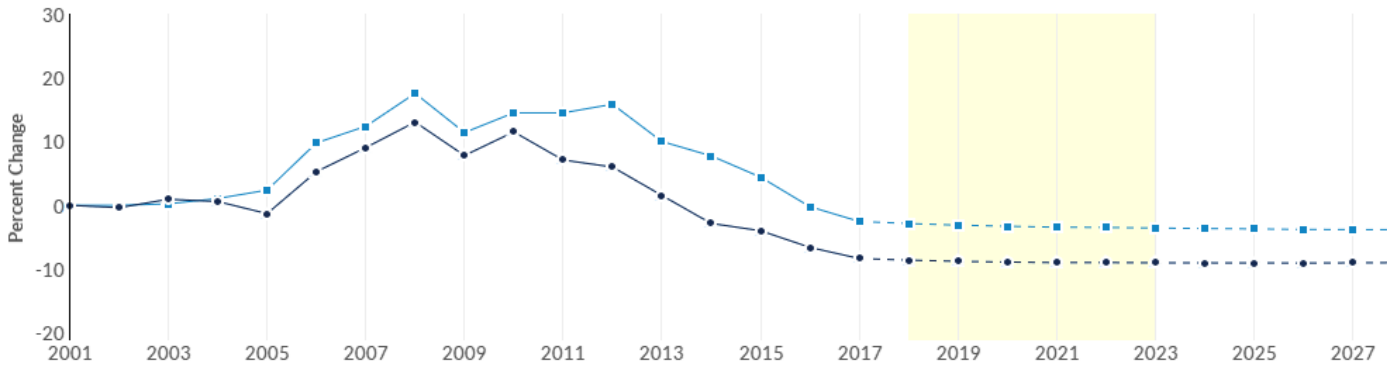
\$37.25/hr  
Median Earnings

\$46.10/hr  
75th Percentile Earnings



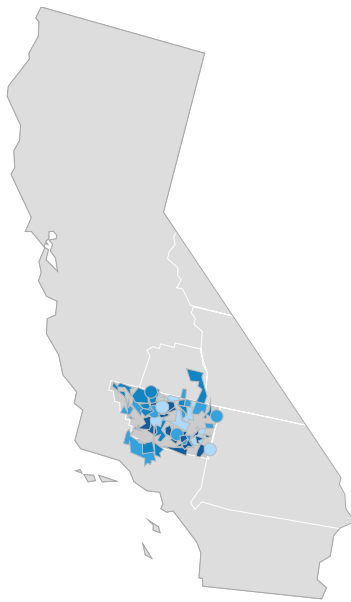
Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Civil Engineering Technicians (17-3022)	\$19.74	\$28.67	\$34.57
Electrical and Electronics Engineering Technicians (17-3023)	\$31.64	\$37.83	\$46.09
Industrial Engineering Technicians (17-3026)	\$30.23	\$42.76	\$49.42
Mechanical Engineering Technicians (17-3027)	\$24.43	\$28.93	\$33.90
Engineering Technicians, Except Drafters, All Other (17-3029)	\$33.45	\$38.77	\$49.21

# Regional Trends




Region	2018 Jobs	2023 Jobs	Change	% Change
● Region	1,645	1,637	-8	-0.5%
■ BC Service Area DEMOGRAPHIC	929	923	-6	-0.6%
▲ Kern County	1,645	1,637	-8	-0.5%

## Regional Breakdown



ZIP	2023 Jobs
Bakersfield, CA 93308 (in Kern county)	282
Ridgecrest, CA 93555 (in Kern county)	251
Bakersfield, CA 93309 (in Kern county)	109
Bakersfield, CA 93313 (in Kern county)	79
Bakersfield, CA 93311 (in Kern county)	79

## Job Postings Summary

<p>234 Unique Postings 904 Total Postings</p>	<p>4 : 1 Posting Intensity  Regional Average: 4 : 1</p>	<p>31 days Median Posting Duration Regional Average: 31 days</p>
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There were 904 total job postings for your selection from January 2018 to August 2018, of which 234 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

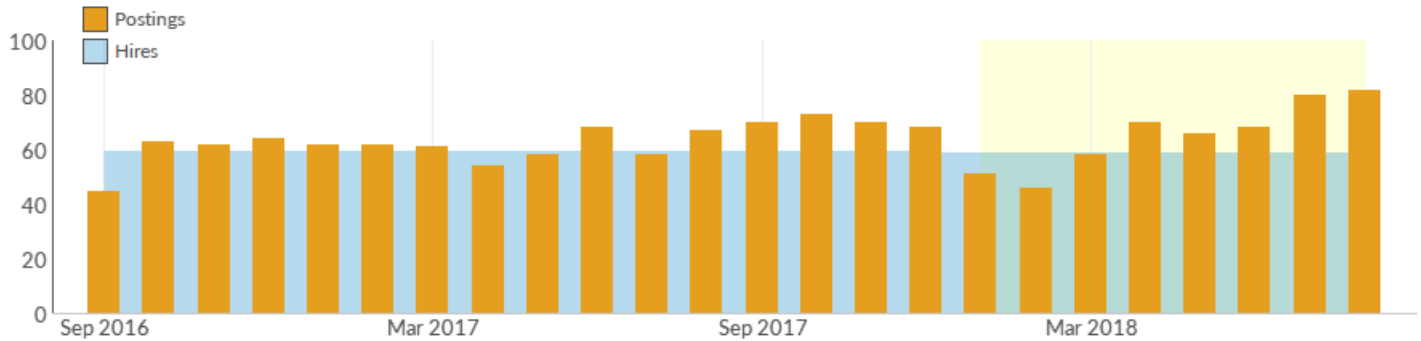
65

Avg. Monthly Postings (Jan 2018 - Aug 2018)

59

Avg. Monthly Hires (Jan 2018 - Aug 2018)

In an average month, there were 65 unique job postings for 5 Occupations, and 59 actually hired. This means there was approximately 1 hire for every 1.1 unique job posting for 5 Occupations.



Occupation	Avg Monthly Postings (Jan 2018 - Aug 2018)	Avg Monthly Hires (Jan 2018 - Aug 2018)
Electrical and Electronics Engineering Technicians	38	29
Industrial Engineering Technicians	12	3
Civil Engineering Technicians	6	4
Engineering Technicians, Except Drafters, All Other	6	21
Mechanical Engineering Technicians	3	2

## Occupation Gender Breakdown



Gender	2017 Jobs	2017 Percent
● Males	1,339	81.2%
● Females	311	18.8%

## Occupation Age Breakdown



Age	2017 Jobs	2017 Percent
● 14-18	4	0.2%
● 19-24	129	7.8%
● 25-34	344	20.8%
● 35-44	343	20.8%
● 45-54	393	23.8%
● 55-64	359	21.8%
● 65+	77	4.7%

## Occupation Race/Ethnicity Breakdown



Race/Ethnicity	2017 Jobs	2017 Percent
White	864	52.4%
Hispanic or Latino	445	27.0%
Asian	197	11.9%
Black or African American	89	5.4%
Two or More Races	42	2.6%
American Indian or Alaska Native	8	0.5%
Native Hawaiian or Other Pacific Islander	5	0.3%

## Occupational Programs

8  
Programs (2017)

42  
Completions (2017)

147  
Openings (2017)

CIP Code	Program	Completions (2017)
15.9999	Engineering Technologies and Engineering-Related Fields, Other	33
15.0613	Manufacturing Engineering Technology/Technician	7
46.0415	Building Construction Technology	2
15.0000	Engineering Technology, General	0
15.0101	Architectural Engineering Technology/Technician	0

## Industries Employing 5 Architecture and Engineering Occupations

Industry	Occupation Group Jobs in Industry (2017)	% of Occupation Group in Industry (2017)	% of Total Jobs in Industry (2017)
Federal Government, Civilian, Excluding Postal Service	372	22.5%	3.9%
Engineering Services	236	14.3%	10.4%
State Government, Excluding Education and Hospitals	100	6.1%	1.2%
Local Government, Excluding Education and Hospitals	91	5.5%	0.7%
Testing Laboratories	63	3.8%	13.3%

# 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