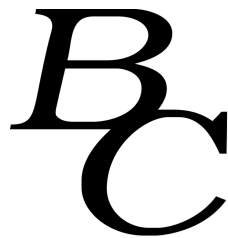# Occupation Overview

Emsi Q4 2018 Data Set

October 2018

Bakersfield College

**Bakersfield
COLLEGE**

1801 Panorama Drive
Bakersfield, California 93305
661.395.4921

Parameters

Occupations

Code	Description
17-3022	Civil Engineering Technicians
17-3023	Electrical and Electronics Engineering Technicians
17-3025	Environmental Engineering Technicians
17-3026	Industrial Engineering Technicians
17-3027	Mechanical Engineering Technicians
17-3029	Engineering Technicians, Except Drafters, All Other
17-3031	Surveying and Mapping Technicians

Regions

Code	Description
6029	Kern County, CA

Timeframe

2018 - 2023

Datarun

2018.4 – QCEW Employees, Non-QCEW Employees, and Self-Employed

Occupation Summary for 7 Architecture and Engineering Occupations

1,848	**-1.0%**	**$36.22/hr**
Jobs (2018)	% Change (2018-2023)	Median Hourly Earnings
73% above National average	Nation: +4.4%	Nation: $26.98/hr

Growth

1,848	1,830	-18	-1.0%
2018 Jobs	2023 Jobs	Change (2018-2023)	% Change (2018-2023)
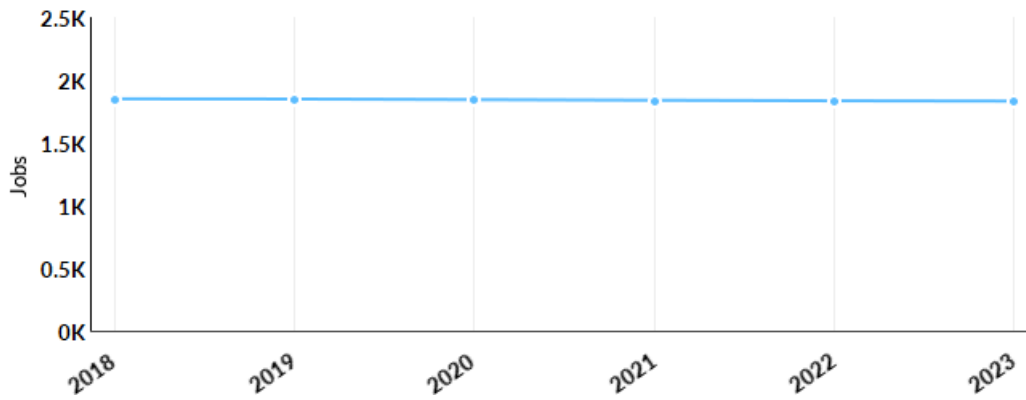
Occupation	2018 Jobs	2023 Jobs	Change	% Change
Civil Engineering Technicians (17-3022)	120	131	11	9%
Electrical and Electronics Engineering Technicians (17-3023)	832	817	-15	-2%
Environmental Engineering Technicians (17-3025)	60	57	-3	-5%
Industrial Engineering Technicians (17-3026)	64	63	-1	-2%
Mechanical Engineering Technicians (17-3027)	54	53	-1	-2%
Engineering Technicians, Except Drafters, All Other (17-3029)	564	555	-9	-2%
Surveying and Mapping Technicians (17-3031)	153	154	1	1%

Percentile Earnings
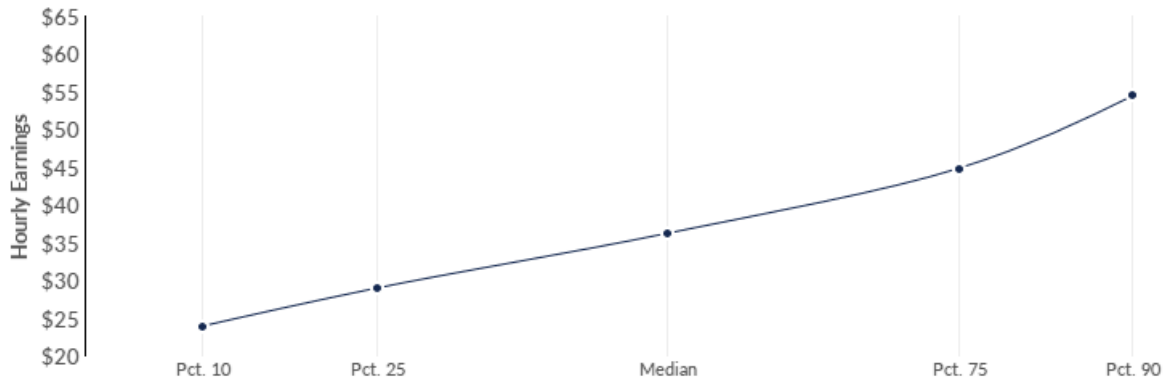
$28.95/hr	$36.22/hr	$44.82/hr
25th Percentile Earnings	Median Earnings	75th Percentile Earnings

Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Civil Engineering Technicians (17-3022)	$19.74	$28.92	$34.67
Electrical and Electronics Engineering Technicians (17-3023)	$31.93	$37.99	$46.25
Environmental Engineering Technicians (17-3025)	$15.49	$20.41	$24.19
Industrial Engineering Technicians (17-3026)	$32.28	$43.47	$49.86
Mechanical Engineering Technicians (17-3027)	$24.43	$28.80	$34.24
Engineering Technicians, Except Drafters, All Other (17-3029)	$33.45	$38.84	$49.28
Surveying and Mapping Technicians (17-3031)	$23.05	$26.98	$29.96

Regional Trends
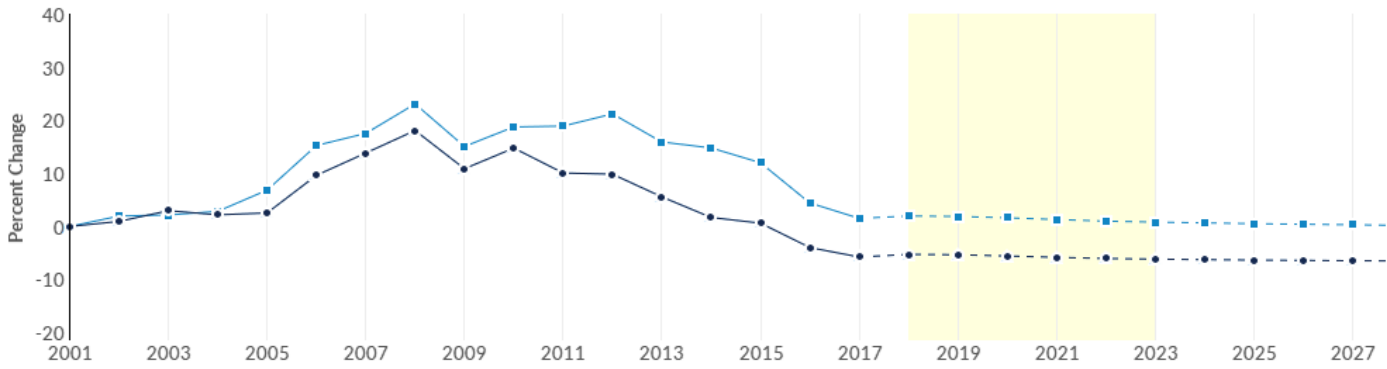
Region	2018 Jobs	2023 Jobs	Change	% Change
● Region	1,848	1,830	-18	-1.0%
■ BC Service Area DEMOGRAPHIC	1,057	1,045	-12	-1.1%
▲ Kern County	1,848	1,830	-18	-1.0%

Regional Breakdown
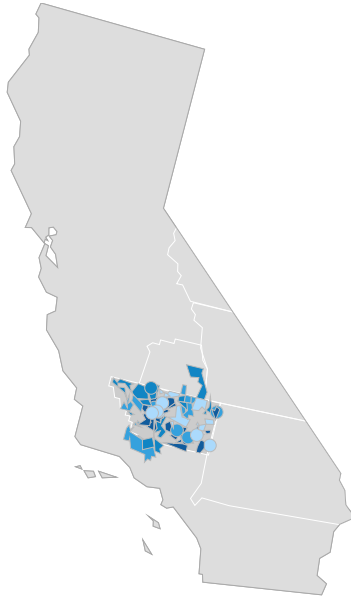
ZIP	2023 Jobs
Bakersfield, CA 93308 (in Kern county)	299
Ridgecrest, CA 93555 (in Kern county)	271
Bakersfield, CA 93309 (in Kern county)	136
Bakersfield, CA 93311 (in Kern county)	100
Bakersfield, CA 93313 (in Kern county)	91

Job Postings Summary

270	4 : 1	31 days
Unique Postings	**Posting Intensity**	**Median Posting Duration**
1,030 Total Postings	Regional Average: 4 : 1	Regional Average: 31 days

There were **1,030** total job postings for your selection from January 2018 to September 2018, of which **270** 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.
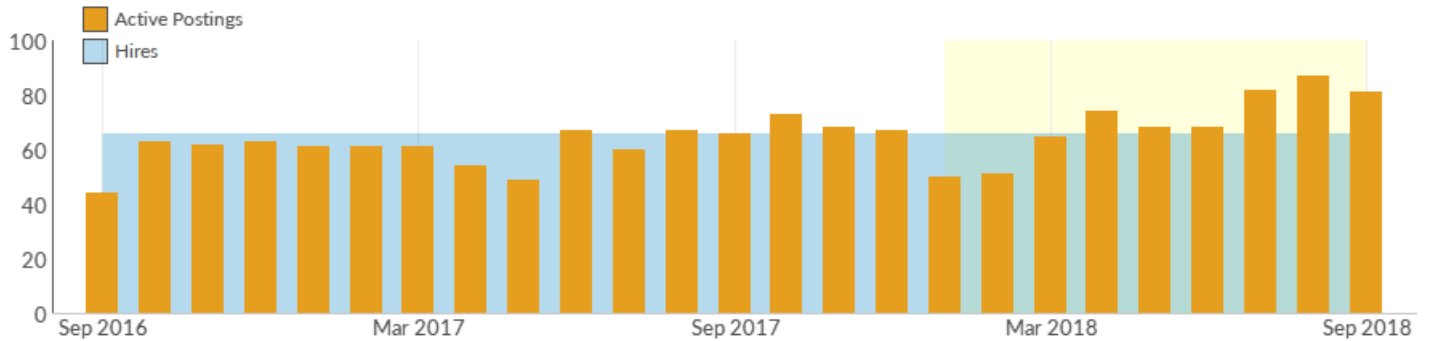
Job Postings vs. Hires

<table>
<tr><td style="text-align:center">70</td><td style="text-align:center">66</td></tr>
<tr><td style="text-align:center">Avg. Monthly Postings (Jan 2018 - Sep 2018)</td><td style="text-align:center">Avg. Monthly Hires (Jan 2018 - Sep 2018)</td></tr>
</table>

In an average month, there were **70** active job postings for *7 Occupations*, and **66** actually hired. This means there was approximately 1 hire for every 1 active job posting for *7 Occupations*.

Occupation	Avg Monthly Postings (Jan 2018 - Sep 2018)	Avg Monthly Hires (Jan 2018 - Sep 2018)
Electrical and Electronics Engineering Technicians	39	29
Industrial Engineering Technicians	12	2
Civil Engineering Technicians	6	4
Engineering Technicians, Except Drafters, All Other	6	21
Mechanical Engineering Technicians	3	2
Environmental Engineering Technicians	2	2
Surveying and Mapping Technicians	1	5

Occupation Gender Breakdown

Gender	2018 Jobs	2018 Percent	
● Males	1,507	81.5%	
● Females	341	18.5%	

Occupation Age Breakdown

Age	2018 Jobs	2018 Percent	
● 14-18	5	0.2%	
● 19-24	146	7.9%	
● 25-34	394	21.3%	
● 35-44	384	20.8%	
● 45-54	434	23.5%	
● 55-64	399	21.6%	
● 65+	87	4.7%	

Occupation Race/Ethnicity Breakdown
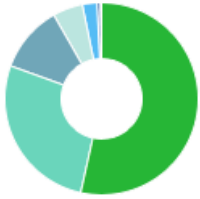
	Race/Ethnicity	2018 Jobs	2018 Percent	
🟢	White	988	53.5%	▰▰▰
🟢	Hispanic or Latino	500	27.1%	▰▰
🔵	Asian	208	11.2%	▰
🔵	Black or African American	93	5.0%	▪
🔵	Two or More Races	45	2.4%	▪
🔵	American Indian or Alaska Native	10	0.5%	▏
🔵	Native Hawaiian or Other Pacific Islander	4	0.2%	▏

Occupational Programs

8	42	169
Programs (2017)	Completions (2017)	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 7 Architecture and Engineering Occupations

Industry	Occupation Group Jobs in Industry (2018)	% of Occupation Group in Industry (2018)	% of Total Jobs in Industry (2018)
Federal Government, Civilian, Excluding Postal Service	376	20.4%	3.9%
Engineering Services	295	16.0%	13.0%
Local Government, Excluding Education and Hospitals	119	6.4%	0.9%
State Government, Excluding Education and Hospitals	109	5.9%	1.3%
Testing Laboratories	67	3.6%	14.2%

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