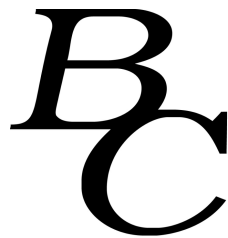


Occupation Overview

Emsi Q4 2018 Data Set

January 2019

Bakersfield College



Bakersfield
COLLEGE



1801 Panorama Drive
Bakersfield, California 93305
661.395.4921

Parameters

Occupations

Code	Description
17-3024	Electro-Mechanical Technicians

Regions

Code	Description
6029	Kern County, CA

Timeframe

2019 - 2024

Datarun

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

Electro-Mechanical Technicians in Kern County, CA

Electro-Mechanical Technicians (SOC 17-3024):

Operate, test, maintain, or calibrate unmanned, automated, servo-mechanical, or electromechanical equipment. May operate unmanned submarines, aircraft, or other equipment at worksites, such as oil rigs, deep ocean exploration, or hazardous waste removal. May assist engineers in testing and designing robotics equipment.

Sample of Reported Job Titles:

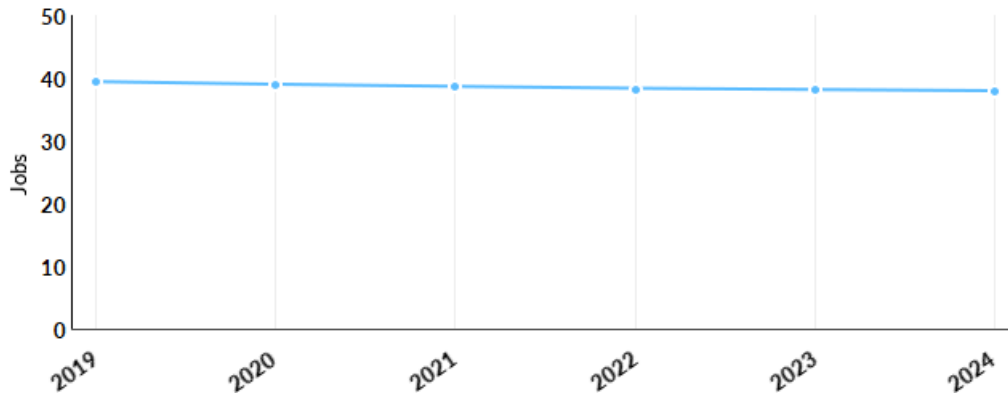
Mechanic
Tester
Test Technician
Product Test Specialist
Mechanical Technician
Automation Technician
Programmable Logic Controllers Technician
Process Control Technician
Instrumentation and Process Controls Technician
Instrumentation and Controls Technician
Related O*NET Occupations:
Electro-Mechanical Technicians (17-3024.00)
Robotics Technicians (17-3024.01)

Occupation Summary for Electro-Mechanical Technicians

<p>39 Jobs (2019) 20% above National average</p>	<p>-2.6% % Change (2019-2024) Nation: +2.8%</p>	<p>\$34.24/hr Median Hourly Earnings Nation: \$27.36/hr</p>
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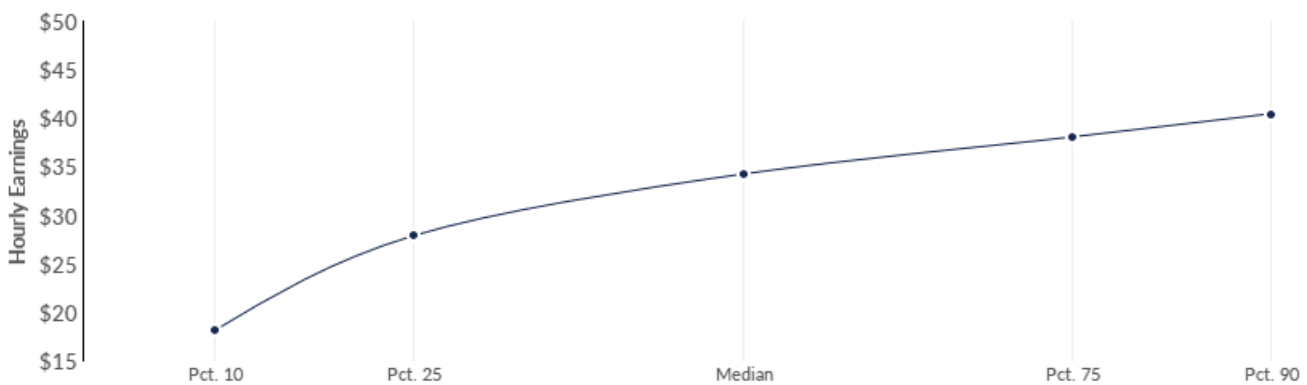
Growth for Electro-Mechanical Technicians (17-3024)

39 2019 Jobs	38 2024 Jobs	-1 Change (2019-2024)	-2.6% % Change (2019-2024)
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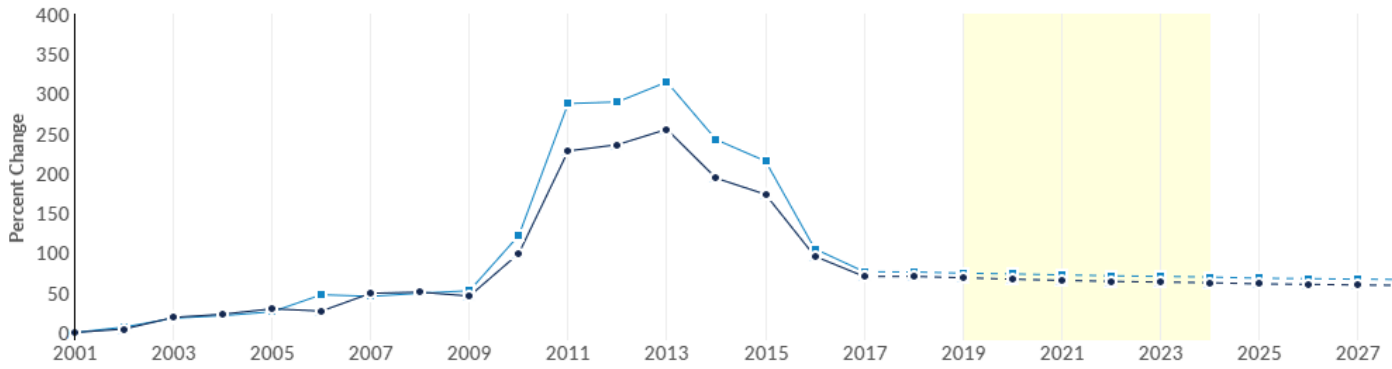


Percentile Earnings for Electro-Mechanical Technicians (17-3024)

\$27.88/hr 25th Percentile Earnings	\$34.24/hr Median Earnings	\$38.08/hr 75th Percentile Earnings
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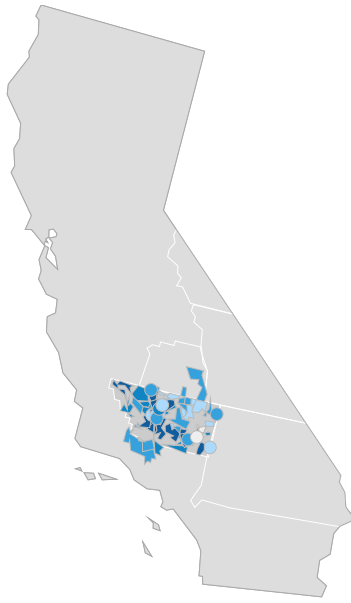


Regional Trends



Region	2019 Jobs	2024 Jobs	Change	% Change
● Region	39	38	-1	-2.6%
■ BC Service Area DEMOGRAPHIC	27	26	-1	-3.7%
▲ Kern County	39	38	-1	-2.6%

Regional Breakdown



ZIP	2024 Jobs
Bakersfield, CA 93308 (in Kern county)	11
Bakersfield, CA 93313 (in Kern county)	<10
Mojave, CA 93501 (in Kern county)	<10
Bakersfield, CA 93307 (in Kern county)	<10
Ridgecrest, CA 93555 (in Kern county)	<10

Occupation Gender Breakdown



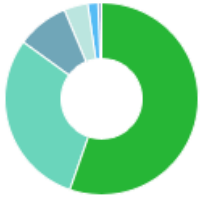
Gender	2018 Jobs	2018 Percent
● Males	32	81.3%
● Females	7	18.7%

Occupation Age Breakdown



Age	2018 Jobs	2018 Percent
14-18	0	0.1%
19-24	3	6.8%
25-34	9	22.4%
35-44	9	22.2%
45-54	9	22.5%
55-64	9	21.6%
65+	2	4.3%

Occupation Race/Ethnicity Breakdown



Race/Ethnicity	2018 Jobs	2018 Percent
White	22	55.3%
Hispanic or Latino	12	29.7%
Asian	3	8.7%
Black or African American	2	4.0%
Two or More Races	1	1.7%
American Indian or Alaska Native	0	0.5%
Native Hawaiian or Other Pacific Islander	0	0.1%

National Educational Attainment



Education Level	2018 Percent
Less than high school diploma	3.5%
High school diploma or equivalent	22.4%
Some college, no degree	31.0%
Associate's degree	22.6%
Bachelor's degree	17.1%
Master's degree	2.9%
Doctoral or professional degree	0.6%

Occupational Programs

2
Programs (2017)

33
Completions (2017)

3
Openings (2017)

CIP Code	Program	Completions (2017)
15.9999	Engineering Technologies and Engineering-Related Fields, Other	33
15.0000	Engineering Technology, General	0

Industries Employing Electro-Mechanical Technicians

Industry	Occupation Jobs in Industry (2018)	% of Occupation in Industry (2018)	% of Total Jobs in Industry (2018)
Engineering Services	<10	12.3%	0.2%
Support Activities for Oil and Gas Operations	<10	7.6%	0.1%
Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing	<10	7.3%	0.7%
Other Aircraft Parts and Auxiliary Equipment Manufacturing	<10	4.6%	0.4%
Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	<10	4.4%	0.2%

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.

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