



BAKERSFIELD COLLEGE: CAREER TECHNICAL EDUCATION

TWO YEAR PROGRAM REVIEW FORM

PROGRAM INFORMATION				
Chair Name	Christopher McCraw	Date		
Department	Agriculture	Discipline	Agriculture Business	
Most Recent Program Plan Completed On		Date		
Most Recent Program Review Completed On		Date		
Faculty Name	James Selgrath			
Email	James.selgrath@bakersfieldcollege.edu	Telephone	661-395-4967	
1. -MEETS A DOCUMENTED LABOR MARKET DEMAND				
Source of information (check all that apply)				
<input type="checkbox"/>	Bureau of Labor Statistics (http://www.bls.gov)			
<input type="checkbox"/>	State of California Labor Market Information (www.labormarketinfo.edd.ca.gov/)			
<input type="checkbox"/>	Advisory Committee Meeting held on		Attach Minutes	
<input type="checkbox"/>	Professional Association			
X	Other	EMSI Modeling Specialists		
Findings	There are 6512 jobs in 2015 for which our graduates can apply			
2. DOES NOT REPRESENT UNNECESSARY DUPLICATION OF OTHER MANPOWER TRAINING PROGRAMS IN THE AREA.				
List programs from other institutions (private/fee based/public):				
<i>Name of Institution</i>	<i>Name of Program</i>	<i>Distance to College</i>	<i>Public/Private</i>	<i>Approx Enrollment</i>
California State University Bakersfield	Agriculture Business	10 miles	XPublic <input type="checkbox"/> Private	200
			<input type="checkbox"/> Public <input type="checkbox"/> Private	
			<input type="checkbox"/> Public <input type="checkbox"/> Private	
Findings				
3. DEMONSTRATED EFFECTIVENESS AS MEASURED BY EMPLOYMENT AND COMPLETION OF STUDENTS				
Core Indicator Data Reviewed	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date		
Insert Scores Below:				
Success:	Completion:	Employment:		
Non-Traditional:	Non-Traditional Completion:			
Findings				
4. REVIEW/APPROVALS				
Date	Signature		Title	
			Department Head	

	College Dean
Presentation to Curriculum Committee	Click here to enter a date.
Presentation to College Council	Click here to enter a date.
Presentation to Board of Trustee	Click here to enter a date.

[Using EMSI / Educational Analyst / Programs / Program Report](#)

Run a historical Program Report for 2010 to 2015 to show the following data:

What TOP code(s) are you using for this report?

- A) number of jobs within the above occupation(s) for 2010
- B) number of jobs within the above occupations(s) for 2015
- C) number and percent change (2010to 2015)
- D) the average hourly earnings for the above occupation(s)
- E) number of completions (awards) from our college 2010-2015
- F) number of completions (awards) from regional colleges 2010-2015

SOC	Description	2010 Jobs	2015 Jobs	2010 - 2015 Change	2010 - 2015 % Change
a	Farmers, Ranchers, and Other Agricultural Managers	1,030	1,483	453	44%
13-1028	Buyers and Purchasing Agents	371	394	23	6%
13-1075	Labor Relations Specialists	105	103	(2)	(2%)
13-1199	Business Operations Specialists, All Other	2,216	2,092	(124)	(6%)
15-1121	Computer Systems Analysts	538	549	11	2%
19-3011	Economists	11	16	5	45%
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	1,635	1,875	240	15%
		5,906	6,512	606	10%

Then run a projection Program Report for 2015 to 2020 to show the following data:

- A) number of jobs within the above occupation(s) for 2015
- B) number of jobs within the above occupations(s) for 2020
- C) number and percent change (2015 to 2020)
- D) the average hourly earnings for the above occupation(s)
- E) number of annual openings and total replacement jobs

Occupation Overview

Emsi Q3 2018 Data Set
September 2018

Bakersfield College



1801 Panorama Drive
Bakersfield, California 93305
661.395.4921

Parameters

Occupations

Code	Description
11-9013	Farmers, Ranchers, and Other Agricultural Managers
13-1028	Buyers and Purchasing Agents
13-1075	Labor Relations Specialists
13-1199	Business Operations Specialists, All Other
15-1121	Computer Systems Analysts
19-3011	Economists
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products

Regions

Code	Description
6029	Kern County, CA

Timeframe

2015 - 2016

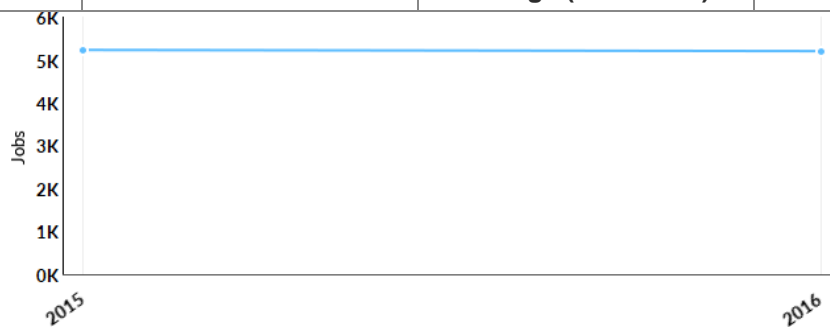
7 Occupations in Kern County, CA

Occupation Summary for 7 Occupations

5,223 Jobs (2015) 4% below National average	-0.5% % Change (2015-2016) Nation: 1.8%	\$36.59/hr Median Hourly Earnings Nation: \$35.82/hr
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Growth

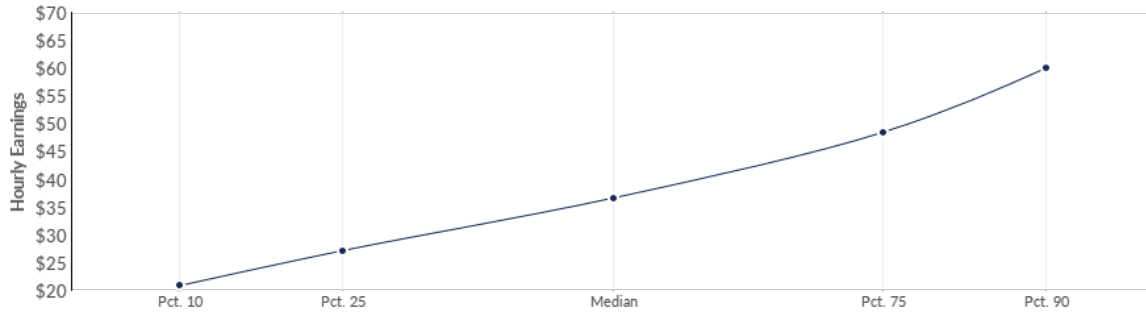
5,223 2015 Jobs	5,196 2016 Jobs	-27 Change (2015-2016)	-0.5% % Change (2015-2016)
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Occupation	2015 Jobs	2016 Jobs	Change	% Change
Farmers, Ranchers, and Other Agricultural Managers (11-9013)	1,483	1,571	88	6%
Buyers and Purchasing Agents (13-1028)	394	363	-31	-8%
Labor Relations Specialists (13-1075)	103	106	3	3%
Business Operations Specialists, All Other (13-1199)	2,092	2,125	33	2%
Computer Systems Analysts (15-1121)	549	503	-46	-8%
Economists (19-3011)	16	15	-1	-6%
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products (41-4011)	586	514	-72	-12%

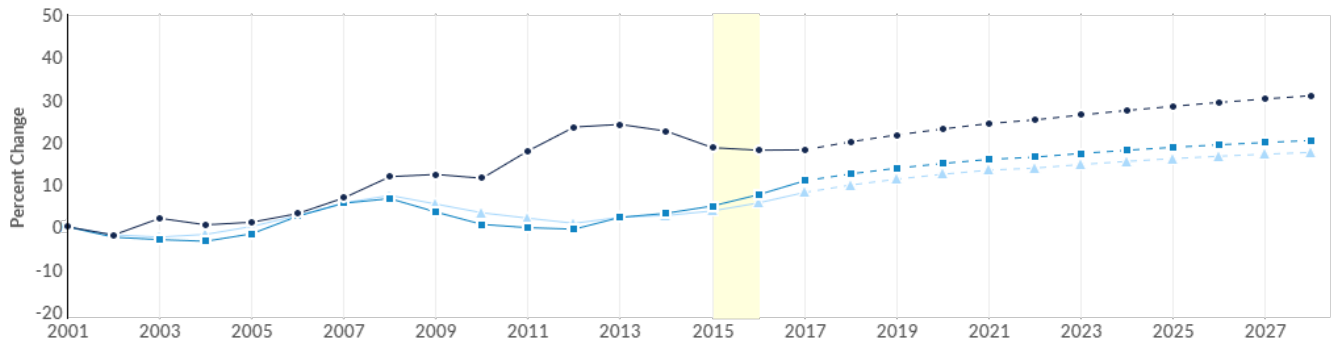
Percentile Earnings

\$27.13/hr 25th Percentile Earnings	\$36.59/hr Median Earnings	\$48.46/hr 75th Percentile Earnings
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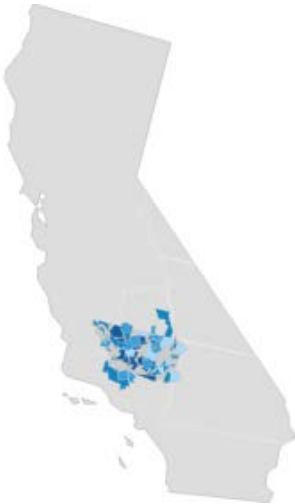
Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Farmers, Ranchers, and Other Agricultural Managers (11-9013)	\$24.59	\$31.11	\$49.68
Buyers and Purchasing Agents (13-1028)	\$22.18	\$30.57	\$41.01
Labor Relations Specialists (13-1075)	\$11.76	\$29.54	\$42.82
Business Operations Specialists, All Other (13-1199)	\$28.01	\$38.40	\$49.15
Computer Systems Analysts (15-1121)	\$35.60	\$43.41	\$50.70
Economists (19-3011)	\$33.83	\$51.67	\$68.98
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products (41-4011)	\$33.00	\$40.76	\$46.63

Regional Trends



	Region	2015 Jobs	2016 Jobs	Change	% Change
●	Region	5,223	5,196	-27	-0.5%
●	State	339,741	348,343	8,602	2.5%
●	Nation	2,431,383	2,475,669	44,286	1.8%



Regional Breakdown



ZIP	2016 Jobs
Arvin, CA 93203 (in Kern county)	804
Bakersfield, CA 93308 (in Kern county)	577
Ridgecrest, CA 93555 (in Kern county)	471
Bakersfield, CA 93311 (in Kern county)	295
Bakersfield, CA 93309 (in Kern county)	289

Occupation Gender Breakdown



	Gender	2017 Jobs	2017 Percent	
•	Males	2,914	56.0%	
•	Females	2,286	44.0%	

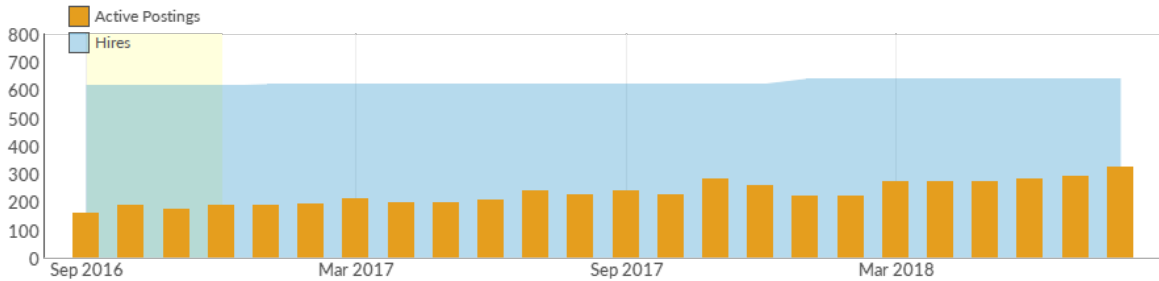
Job Postings Summary

<p>365 Unique Postings</p> <p>1,190 Total Postings</p>	<p>3 : 1 Posting Intensity</p> <p>Regional Average: 4 : 1</p>	<p>23 days Median Posting Duration</p> <p>Regional Average: 24 days</p>
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There were **1,190** total job postings for your selection from September 2016 to December 2016, of which **365** 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 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

177 Avg. Monthly Postings (Sep 2016 - Dec 2016)	615 Avg. Monthly Hires (Sep 2016 - Dec 2016)
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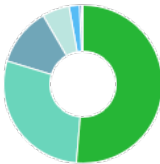
Occupation	Avg Monthly Postings (Sep 2016 - Dec 2016)	Avg Monthly Hires (Sep 2016 - Dec 2016)
Computer Systems Analysts	54	21
Business Operations Specialists, All Other	48	90
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	38	27
Buyers and Purchasing Agents	31	24
Farmers, Ranchers, and Other Agricultural Managers	5	433
Labor Relations Specialists	1	20
Economists	0	0

Occupation Age Breakdown



	Age	2017 Jobs	2017 Percent
●	14-18	9	0.2%
●	19-24	258	5.0% ■
●	25-34	1,104	21.2% ■■
●	35-44	1,108	21.3% ■■
●	45-54	1,218	23.4% ■■■
●	55-64	1,077	20.7% ■■
●	65+	426	8.2% ■

Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2017 Jobs	2017 Percent
●	White	2,669	51.3%
●	Hispanic or Latino	1,476	28.4%
●	Asian	619	11.9%
●	Black or African American	288	5.5%
●	Two or More Races	109	2.1%
●	American Indian or Alaska Native	22	0.4%
●	Native Hawaiian or Other Pacific Islander	16	0.3%

Occupational Programs

13 Programs (2016)		97 Completions (2016)	544 Openings (2016)
CIP Code	Program	Completions (2016)	
45.0601	Economics, General	31	
11.0103	Information Technology	14	
01.0102	Agribusiness/Agricultural Business Operations	13	
11.0101	Computer and Information Sciences, General	13	
01.0302	Animal/Livestock Husbandry and Production	12	

Industries Employing 7 Occupations

Industry	Occupation Group Jobs in Industry (2017)	% of Occupation Group in Industry (2017)	% of Total Jobs in Industry (2017)
Crop Production	1,415	27.2%	7.6%
Federal Government, Civilian, Excluding Postal Service	901	17.3%	9.5%
State Government, Excluding Education and Hospitals	231	4.4%	2.8%
Animal Production	217	4.2%	11.7%
Corporate, Subsidiary, and Regional Managing Offices	209	4.0%	5.8%

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

Does the above program meet a documented labor market demand? Please explain.

There are not enough students graduating from BC, or Cal State Bakersfield, to meet the local demand

Using EMSI / Career Pathways / Occupation Analysis / Occupational Program Report

List all related programs of study by other educational institutions in our region:

California State University Bakersfield, Agriculture Business degree, BS

Does the above program represent unnecessary duplication of training programs in our area? Please explain.

No. It is a four year program ending in a BS. The program is the main recipient of our AS-T completers