



BAKERSFIELD COLLEGE: CAREER TECHNICAL EDUCATION

TWO YEAR PROGRAM REVIEW FORM

PROGRAM INFORMATION

Chair Name	Chris McCraw	Date	09/08/2018
Department	Agriculture	Discipline	Food Science and Technology
Most Recent Program Plan Completed On		Date	
Most Recent Program Review Completed On		Date	
Faculty Name	LeAnn Riley		
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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 checked="" type="checkbox"/>	State of California Labor Market Information (www.labormarketinfo.edd.ca.gov/)	
<input checked="" type="checkbox"/>	Advisory Committee Meeting held on 06/06/2018	Attach Minutes <input checked="" type="checkbox"/>
<input type="checkbox"/>	Professional Association	
<input type="checkbox"/>	Other	EMSI Modeling Specialists

Findings
LMI data shows that food science and technology occupational demands are expected to grow by 4% over the next 5 years with over 87 annual openings. Wages for entry level positions for food scientists, food technologists and food technicians are between \$17.40 to \$27.77 hourly. There were 50 job postings for food scientists, food technologist, and food technicians in the seven counties of the South-Central Valley/Southern Mother Lode sub-region from June 2017 – May 2018. It has been recommended that Bakersfield College work with the region’s deputy sector navigator, the college’s advisory board, and local industry in the addition of a food science and technology program.

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>
NONE			<input type="checkbox"/> Public <input type="checkbox"/> Private	
			<input type="checkbox"/> Public <input type="checkbox"/> Private	
			<input type="checkbox"/> Public <input type="checkbox"/> Private	

Findings
Currently there are no other programs in the Central Valley/Mother Lode regions related to TOP code 011300 – Food Processing and Related Technologies. The associate degree programs offered at other colleges in the region and sub-region are under the TOP code 010100 – Agriculture Technology and Sciences – General. In conclusion, a gap in supply appears to exist in the region and sub-region. In the sub-region, there is a shortage of 67 trained workers. In the region, there is a shortage of 109 trained workers. Entry-level wages for food science and technology occupations exceed the average self-sufficiency wage at the regional and sub-regional levels, workforce supply is low for the identified food science and technology occupations, and there remains an undersupply of trained workers.

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
This is a new program so no data has been collected for analysis.

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? **TOP code 011300 – Food Processing and Related Technologies**

- A) number of jobs within the above occupation(s) for 2015: **80**
- B) number of jobs within the above occupations(s) for 2017: **87**
- C) number and percent change (2010 to 2015) **4%**
- D) the average hourly earnings for the above occupation(s): **between \$15.40 to \$20.77 hourly. Some occupations within this area did not exist until the past 3 - 4 years.**
- E) number of completions (awards) from our college 2010-2015: **0 – The program did not exist**
- F) number of completions (awards) from regional colleges 2010-2015: **0 – There are no other colleges within the region awarding this degree.**

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: **80**
- B) number of jobs within the above occupations(s) for 2020: **97**
- C) number and percent change (2015 to 2020) **8%**
- D) the average hourly earnings for the above occupation(s): **between \$17.40 to \$27.77 hourly**
- E) number of annual openings and total replacement jobs: **87 - 107**

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

LMI data shows that food science and technology occupational demands are expected to grow by 4% over the next 5 years with over 87 annual openings. Wages for entry level positions for food scientists, food technologists and food technicians are between \$17.40 to \$27.77 hourly. There were 50 job postings for food scientists, food technologist, and food technicians in the seven counties of the South-Central Valley/Southern Mother Lode sub-region from June 2017 – May 2018. It has been recommended that Bakersfield College work with the region’s deputy sector navigator, the college’s advisory board, and local industry in the addition of a food science and technology program. Currently there are no other programs in the Central Valley/Mother Lode regions related to TOP code 011300 – Food Processing and Related Technologies. The associate degree programs offered at other colleges in the region and sub-region are under the TOP code 010100 – Agriculture Technology and Sciences – General. In conclusion, a gap in supply appears to exist in the region and sub-region. In the sub-region, there is a shortage of 67 trained workers. In the region, there is a shortage of 109 trained workers. Entry-level wages for food science and technology occupations exceed the average self-sufficiency wage at the regional and sub-regional levels, workforce supply is low for the identified food science and technology occupations, and there remains an undersupply of trained workers.

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

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

Currently there are no other programs in the Central Valley/Mother Lode regions related to TOP code 011300 – Food Processing and Related Technologies. The associate degree programs offered at other colleges in the region and sub-region are under the TOP code 010100 – Agriculture Technology and Sciences – General and focus on food safety certifications rather than food science and technology.

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

No, currently there are no other programs at Bakersfield College or in the Central Valley/Mother Lode regions related to TOP code 011300 – Food Processing and Related Technologies.