

Workforce Availability

Emsi Q4 2021 Data Set

November 2021

500 Huebner Road, Room 108
Fort Riley, Kansas 66442
855-785-3472

Parameters

Occupations:

Code	Description
19-4011	Agricultural and Food Science Technicians

Regions:

Code	Description	Code	Description
20149	Pottawatomie County, KS	20161	Riley County, KS

Datarun: 2021.4 - QCEW Employees



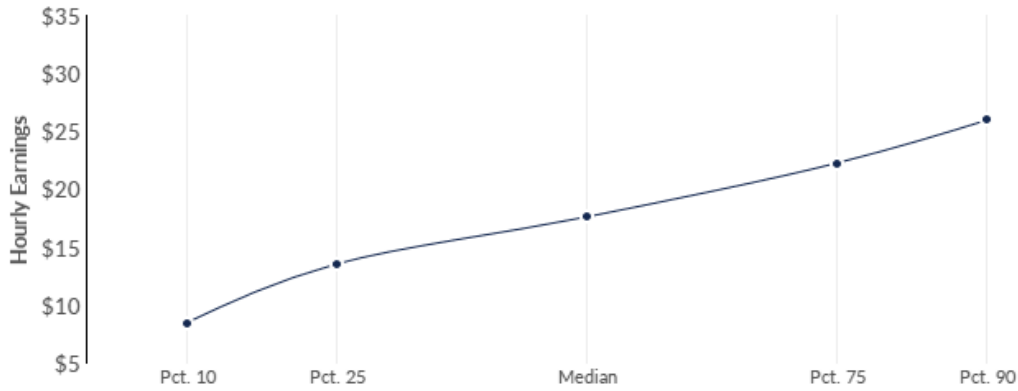
Executive Summary

<p>135 Jobs</p> <p>Jobs increased by 62 over the last 5 years. Projected to decrease by 1 over the next 5 years.</p>	<p>20.75 Concentration</p> <p>Regional job concentration per capita is 20.75 times the national job concentration.</p>	<p>\$17.61/hr Median Earnings</p> <p>Regional median earnings are \$2.04/hr below the national median earnings of \$19.65/hr.</p>	<p>88 Educational Completions</p> <p>Related educational completions are produced by 1 institution in the region.</p>
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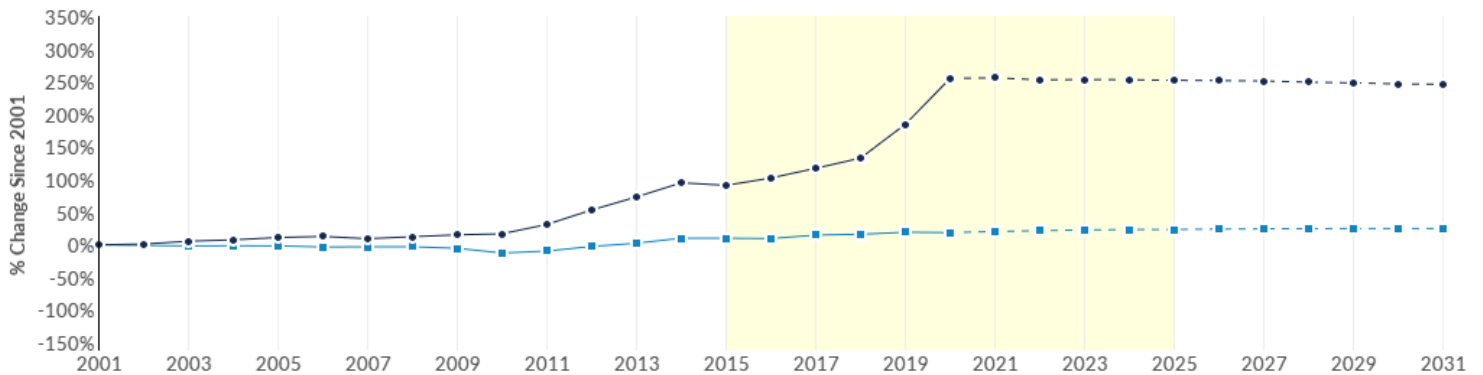
- Agricultural and Food Science Technicians increased by 62 from 2015-2020 (85.8%), outpacing the national growth rate of 7.8%. The occupation is projected to decrease by 1 from 2020-2025 (-0.9%), less than the national projected growth rate of 4.1%.
- Regional job concentration per capita for Agricultural and Food Science Technicians is 20.75 times the national job concentration. In other words, there are 1,975% more Agricultural and Food Science Technicians in this region than we would expect to find in the average region.
- Cost of labor in the region is below median. The median earnings for Agricultural and Food Science Technicians in the region is \$17.61/hr, which is \$2.04/hr below the national median of \$19.65/hr.

Earnings

\$18.12/hr Average Earnings	\$13.55/hr 25th Percentile Earnings	\$17.61/hr Median Earnings	\$22.26/hr 75th Percentile Earnings
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Regional Trends



Region	2015 Jobs	2020 Jobs	2025 Jobs	Change	2015-2020 Growth %	2020-2025 Growth %
● 2 Kansas Counties	73	135	134	61	84.9%	-0.7%
■ Nation	23,505	25,335	26,363	2,858	7.8%	4.1%

Job Growth by County

County	County Name	2015 Jobs	2020 Jobs	2015-2020 % Change	Avg. Hourly Earnings
20161	Riley County, KS	65	97	49%	\$17.42/hr
20149	Pottawatomie County, KS	<10	38	Insf. Data	\$19.92/hr

Occupation Gender Breakdown



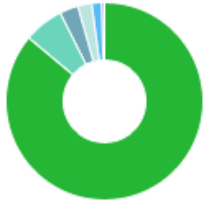
Gender	2020 Jobs	2020 Percent
Males	74	54.4%
Females	62	45.6%

Occupation Age Breakdown



Age	2020 Jobs	2020 Percent
14-18	9	6.6%
19-24	34	25.1%
25-34	26	19.0%
35-44	21	15.9%
45-54	18	13.2%
55-64	16	11.9%
65+	11	8.3%

Occupation Race/Ethnicity Breakdown



Race/Ethnicity	2020 Jobs	2020 Percent
White	116	86.1%
Hispanic or Latino	9	6.5%
Asian	4	3.0%
Two or More Races	3	2.3%
Black or African American	2	1.6%
American Indian or Alaska Native	0	0.3%
Native Hawaiian or Other Pacific Islander	0	0.2%

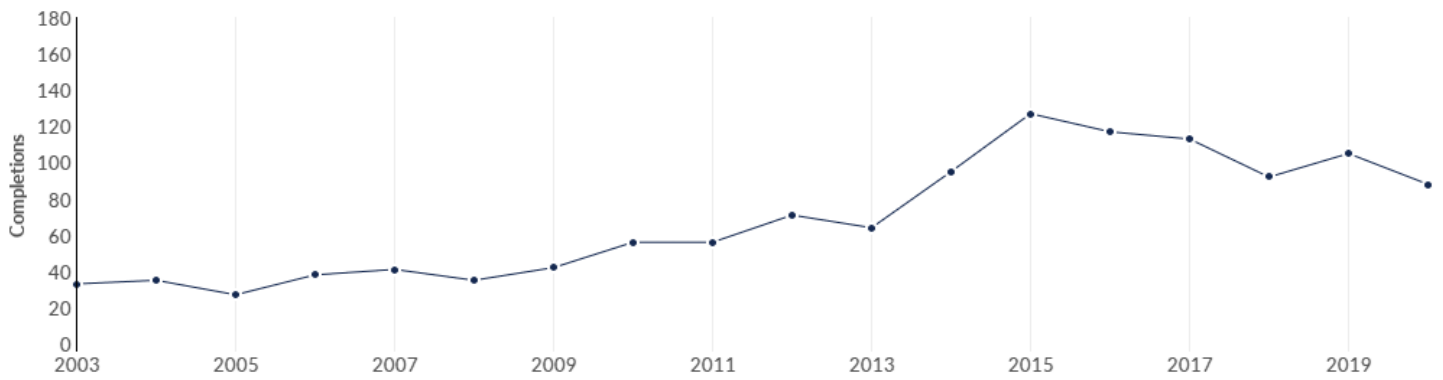
Educational Completions

4
Programs (2020)

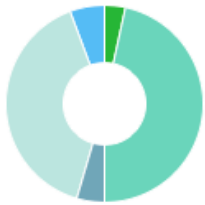
88
Completions (2020)

CIP Code	Program	Completions (2016)	Completions (2017)	Completions (2018)	Completions (2019)	Completions (2020)
01.1001	Food Science	99	94	76	88	75
01.1002	Food Technology and Processing	15	17	11	13	9
01.1099	Food Science and Technology, Other	3	2	3	1	3
26.1201	Biotechnology	0	0	2	3	1

Completions Trend



Regional Completions by Award Level



Award Level	Completions (2020)	Percent
Award of less than 1 academic year	3	3.4%
Bachelor's Degree	41	46.6%
Postbaccalaureate certificate	4	4.5%
Master's Degree	35	39.8%
Doctor's Degree	5	5.7%
Award of at least 1 but less than 2 academic years	0	0.0%
Associate's Degree	0	0.0%
Award of at least 2 but less than 4 academic years	0	0.0%
Post-masters certificate	0	0.0%

Regional Completions by Institution

Institution	Certificates (2020)	Degrees (2020)	Total Completions (2020)
Kansas State University	7	81	88

Appendix A

Agricultural and Food Science Technicians in 2 Kansas Counties

Agricultural and Food Science Technicians (SOC 19-4011):

Work with agricultural scientists in plant, fiber, and animal research, or assist with animal breeding and nutrition. Set up or maintain laboratory equipment and collect samples from crops or animals. Prepare specimens or record data to assist scientists in biology or related life science experiments. Conduct tests and experiments to improve yield and quality of crops or to increase the resistance of plants and animals to disease or insects. Work with food scientists or technologists to perform standardized qualitative and quantitative tests to determine physical or chemical properties of food or beverage products. Includes technicians who assist in research and development of production technology, quality control, packaging, processing, and use of foods.

Sample of Reported Job Titles:

- Seed Analyst
- Extension Associate
- Agricultural Technician
- Senior Agricultural Assistant
- Research Technologist
- Quality Technician
- Quality Assurance Technician (QA Technician)
- Technician
- Technical Services Analyst
- Quality Control Technician (QC Technician)

Related O*NET Occupations:

- Agricultural Technicians (19-4011.01)
- Food Science Technicians (19-4011.02)

Appendix B - Data Sources and Calculations

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.

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 are also affected by county-level Emsi earnings by industry.

State Data Sources

This report uses state data from the following agencies: Kansas Department of Labor