

Occupation Overview

EMSI Q3 2015 Data Set

December 2015

Electromechanical Technology

Western Technical College



400 Seventh Street
La Crosse, Wisconsin 54601
608.785.9200

Parameters

Occupations

Code	Description
17-2112	Industrial Engineers
17-3024	Electro-Mechanical Technicians
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment
49-9041	Industrial Machinery Mechanics

Regions

Code	Description
55011	Buffalo County, WI
55023	Crawford County, WI
55053	Jackson County, WI
55057	Juneau County, WI
55063	La Crosse County, WI
55081	Monroe County, WI
55121	Trempealeau County, WI
55123	Vernon County, WI

Timeframe

2016 - 2020

Datarun

2015.3 – Employees

Electromechanical Technologies 2015 (AED) in 8 Counties

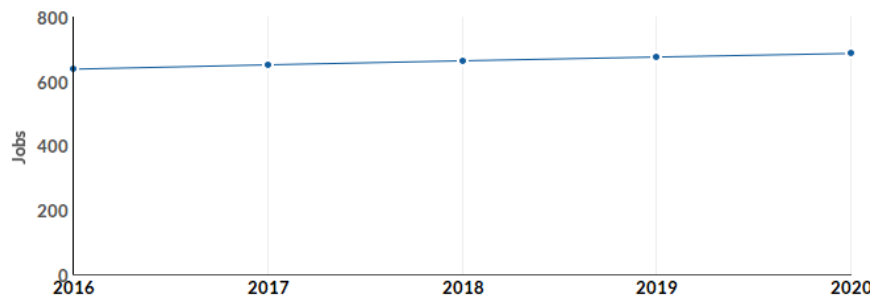
SOC	Description	2016 Jobs	2020 Jobs	2016 - 2020 Change	2016 - 2020 % Change	Openings	Annual Openings	Median Hourly Earnings
17-2112	Industrial Engineers	316	323	7	2%	47	12	\$35.10
17-3024	Electro-Mechanical Technicians	<10	<10	Insf. Data	Insf. Data	<10	Insf. Data	Insf. Data
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	30	33	3	10%	<10	Insf. Data	\$24.62
49-9041	Industrial Machinery Mechanics	286	325	39	14%	76	19	\$22.58
		639	688	49	8%	129	32	\$29.16

Occupation Summary for Electromechanical Technologies 2015 (AED)

624 Jobs (2015) 5% below National average	7.7% % Change (2016-2020) Nation: 4.4%	\$29.16/hr Median Hourly Earnings Nation: \$29.62/hr
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Growth

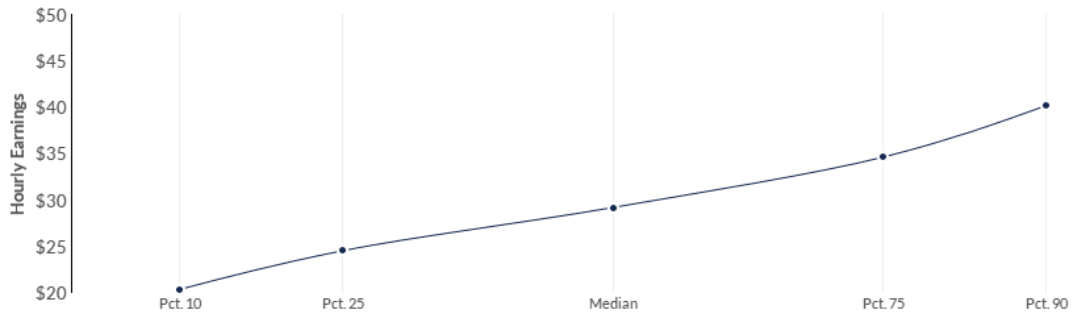
639 2016 Jobs	688 2020 Jobs	49 Change (2016-2020)	7.7% % Change (2016-2020)
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Occupation	2016 Jobs	2020 Jobs	Change	% Change
Industrial Engineers (17-2112)	316	323	7	2%
Electro-Mechanical Technicians (17-3024)	7	7	0	0%
Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)	30	33	3	10%
Industrial Machinery Mechanics (49-9041)	286	325	39	14%

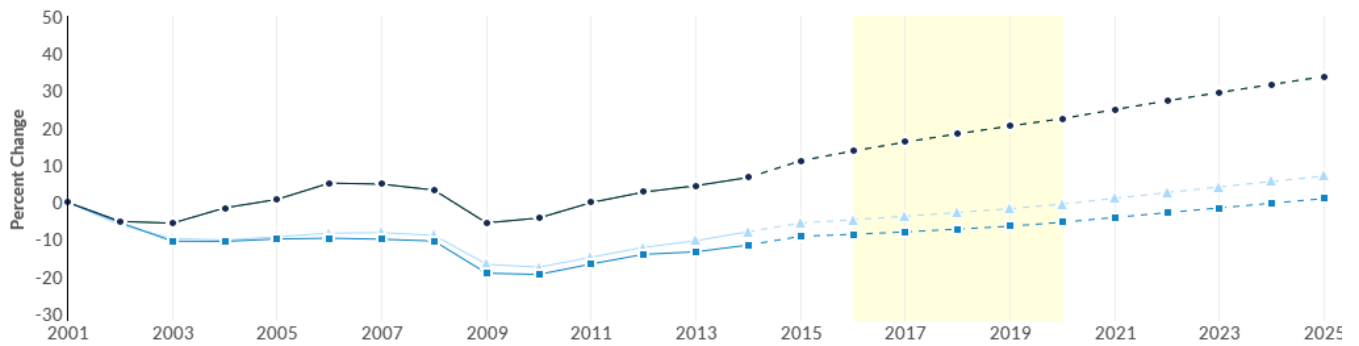
Percentile Earnings

\$24.48/hr 25th Percentile Earnings	\$29.16/hr Median Earnings	\$34.60/hr 75th Percentile Earnings
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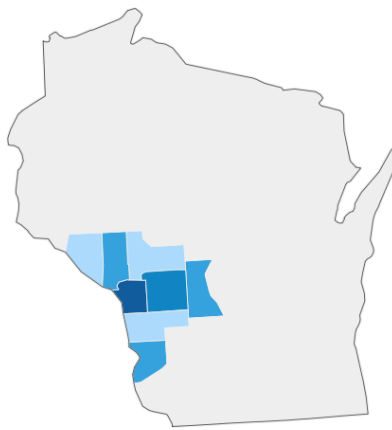
Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Industrial Engineers (17-2112)	\$28.78	\$35.10	\$42.92
Electro-Mechanical Technicians (17-3024)	\$19.52	\$23.35	\$28.82
Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)	\$20.96	\$24.62	\$27.59
Industrial Machinery Mechanics (49-9041)	\$19.78	\$22.58	\$25.43

Regional Trends



	Region	2016 Jobs	2020 Jobs	Change	% Change
●	Region	639	688	49	7.7%
●	State	17,532	18,154	622	3.5%
●	Nation	663,544	692,816	29,272	4.4%
●	Western Technical College District	639	688	49	7.7%

Regional Breakdown



County	2020 Jobs
La Crosse County, WI	228
Monroe County, WI	149
Trempealeau County, WI	83
Juneau County, WI	76
Crawford County, WI	66

Occupation Gender Breakdown



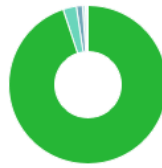
	Gender	2015 Jobs	2015 Percent
•	Males	550	88.1%
•	Females	74	11.9%

Occupation Age Breakdown



	Age	2015 Jobs	2015 Percent
•	14-18	1	0.1%
•	19-24	27	4.3%
•	25-34	106	16.9%
•	35-44	129	20.6%
•	45-54	187	30.0%
•	55-64	154	24.7%
•	65+	21	3.4%

Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2015 Jobs	2015 Percent
●	White	592	94.9%
●	Asian	17	2.7%
●	Hispanic or Latino	8	1.2%
●	Black or African American	4	0.6%
●	Two or More Races	2	0.3%
●	American Indian or Alaska Native	2	0.2%
●	Native Hawaiian or Other Pacific Islander	0	0.0%

Occupational Programs

	2 Programs (2014)	22 Completions (2014)	44 Openings (2014)
CIP Code	Program	Completions (2014)	
47.0105	Industrial Electronics Technology/Technician	21	
47.0303	Industrial Mechanics and Maintenance Technology	1	

Industries Employing Electromechanical Technologies 2015 (AED)

Industry	Occupation Group Jobs in Industry (2015)	% of Occupation Group in Industry (2015)	% of Total Jobs in Industry (2015)
Nonupholstered Wood Household Furniture Manufacturing	32	5.1%	0.9%
Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	30	4.8%	2.0%
Glass Product Manufacturing Made of Purchased Glass	26	4.2%	4.1%
Dry, Condensed, and Evaporated Dairy Product Manufacturing	24	3.8%	2.6%
All Other Miscellaneous Fabricated Metal Product Manufacturing	23	3.7%	2.6%

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.

Completers Data

The completers 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.

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.

Industry Data

EMSI industry data have various sources depending on the class of worker. (1) For QCEW Employees, EMSI primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns and Current Employment Statistics. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.

Staffing Patterns Data

The staffing pattern data in this report are compiled from several sources using a specialized process. For QCEW and Non-QCEW Employees classes of worker, sources include Occupational Employment Statistics, the National Industry-Occupation Employment Matrix, and the American Community Survey. For the Self-Employed and Extended Proprietors classes of worker, the primary source is the American Community Survey, with a small amount of information from Occupational Employment Statistics.

State Data Sources

This report uses state data from the following agencies: Illinois Department of Employment Security, Employment Projections; Iowa Workforce Development; Michigan Department of Labor and Economic Growth, Bureau of Labor Market Information and Strategic Initiatives; Minnesota Department of Employment and Economic Development; Wisconsin Department of Workforce Development, Bureau of Workforce Information