

Occupation Overview

Emsi Q1 2017 Data Set

March 2017

Western Technical College



400 Seventh Street
La Crosse, Wisconsin 54601
608.785.9200

Parameters

Occupations

Code	Description
17-2061	Computer Hardware Engineers
17-2072	Electronics Engineers, Except Computer
17-3012	Electrical and Electronics Drafters
17-3023	Electrical and Electronics Engineering Technicians
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay

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

2018 - 2022

Datarun

2017.1 – Employees

Electronic & Computer Engineering Tech (2 years) 2017 (AED) in Western Technical College District

SOC	Description	2018 Jobs	2022 Jobs	2018 - 2022 Change	2018 - 2022 % Change	2018 - 2022 Openings	Annual Openings	Median Hourly Earnings
17-2061	Computer Hardware Engineers	17	18	1	6%	<10	Insf. Data	\$47.57
17-2072	Electronics Engineers, Except Computer	31	33	2	6%	<10	Insf. Data	\$35.03
17-3012	Electrical and Electronics Drafters	14	14	0	0%	<10	Insf. Data	\$24.42
17-3023	Electrical and Electronics Engineering Technicians	65	67	2	3%	<10	Insf. Data	\$26.60
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	222	227	5	2%	14	4	\$21.78
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	16	19	3	19%	<10	Insf. Data	\$33.48
		364	379	15	4%	37	9	\$25.40

Occupation Summary for Electronic & Computer Engineering Tech (2 years) 6/2013 (AED)

351 Jobs (2016) 45% below National average	4.1% % Change (2018-2022) Nation: 1.4%	\$25.40/hr Median Hourly Earnings Nation: \$35.75/hr
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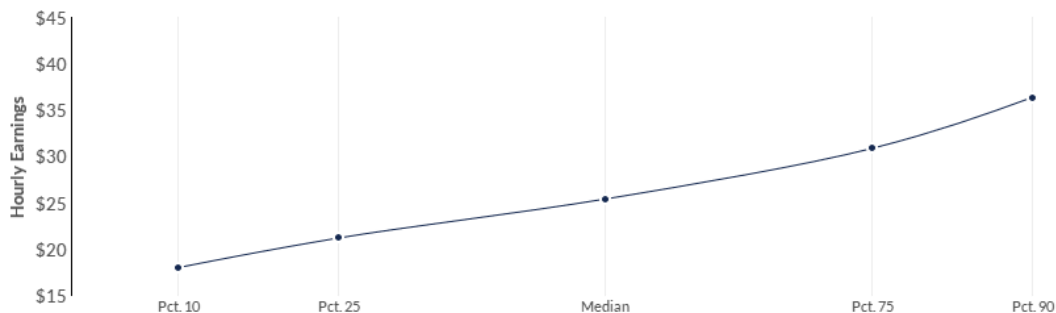
Growth

364 2018 Jobs	379 2022 Jobs	15 Change (2018-2022)	4.1% % Change (2018-2022)
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Occupation	2018 Jobs	2022 Jobs	Change	% Change
Computer Hardware Engineers (17-2061)	17	18	1	6%
Electronics Engineers, Except Computer (17-2072)	31	33	2	6%
Electrical and Electronics Drafters (17-3012)	14	14	0	0%
Electrical and Electronics Engineering Technicians (17-3023)	65	67	2	3%
Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)	222	227	5	2%
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)	16	19	3	19%

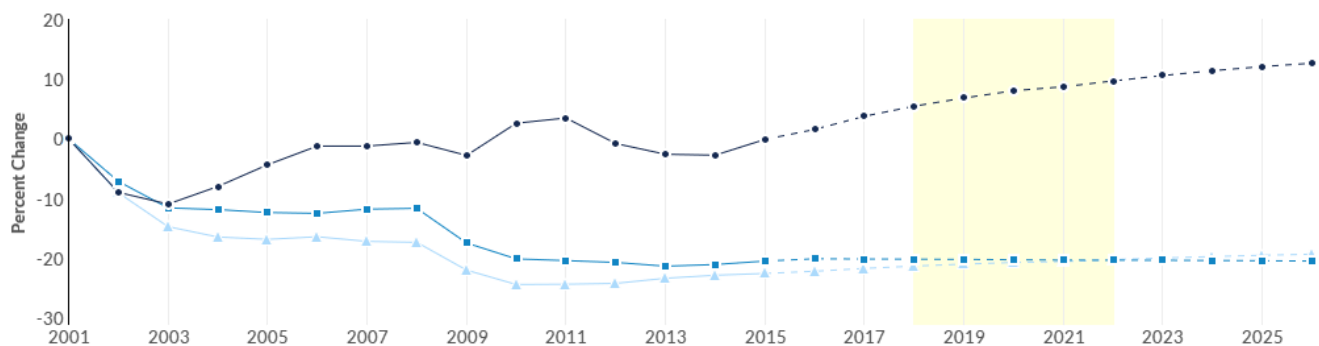
Percentile Earnings

\$21.19/hr 25th Percentile Earnings	\$25.40/hr Median Earnings	\$30.86/hr 75th Percentile Earnings
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Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Computer Hardware Engineers (17-2061)	\$38.98	\$47.57	\$56.45
Electronics Engineers, Except Computer (17-2072)	\$29.29	\$35.03	\$42.41
Electrical and Electronics Drafters (17-3012)	\$20.04	\$24.42	\$28.85
Electrical and Electronics Engineering Technicians (17-3023)	\$22.42	\$26.60	\$29.96
Telecommunications Equipment Installers and Repairers, Except Line Installers (49-2022)	\$18.05	\$21.78	\$27.58
Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)	\$29.88	\$33.48	\$36.43

Regional Trends



	Region	2018 Jobs	2022 Jobs	Change	% Change
●	Region	364	379	15	4.1%
●	Wisconsin	9,633	9,613	-20	-0.2%
●	United States	642,447	651,227	8,780	1.4%

Regional Breakdown

County	2022 Jobs
La Crosse County, WI	224

County	2022 Jobs
Monroe County, WI	43
Crawford County, WI	31
Vernon County, WI	27
Trempealeau County, WI	19

Occupation Gender Breakdown

Gender	2016 Jobs	2016 Percent
Males	311	88.7%
Females	40	11.3%

Occupation Age Breakdown

Age	2016 Jobs	2016 Percent
14-18	1	0.4%
19-24	20	5.6%
25-34	72	20.5%
35-44	80	22.8%
45-54	90	25.6%
55-64	80	22.9%
65+	8	2.3%

Occupation Race/Ethnicity Breakdown

Race/Ethnicity	2016 Jobs	2016 Percent
White	334	95.1%
Asian	6	1.8%

	Race/Ethnicity	2016 Jobs	2016 Percent
•	Hispanic or Latino	5	1.4%
•	Black or African American	4	1.1%
•	Two or More Races	1	0.3%
•	American Indian or Alaska Native	1	0.2%
•	Native Hawaiian or Other Pacific Islander	0	0.0%

Occupational Programs

	4 Programs (2015)	26 Completions (2015)	15 Openings (2015)
CIP Code	Program	Completions (2015)	
15.1201	Computer Engineering Technology/Technician	15	
47.0105	Industrial Electronics Technology/Technician	11	
15.0303	Electrical, Electronic and Communications Engineering Technology/Technician	0	
46.0302	Electrician	0	

Industries Employing Electronic & Computer Engineering Tech (2 years) 6/2013 (AED)

Industry	Occupation Group Jobs in Industry (2016)	% of Occupation Group in Industry (2016)	% of Total Jobs in Industry (2016)
Wired Telecommunications Carriers	100	28.4%	33.0%
Electrical Contractors and Other Wiring Installation Contractors	36	10.3%	8.2%
Federal Government, Civilian, Excluding Postal Service	27	7.8%	0.9%
Fossil Fuel Electric Power Generation	20	5.8%	3.1%
Cable and Other Subscription Programming	18	5.1%	30.5%

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.

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