

# 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
47-2111	Electricians
47-2231	Solar Photovoltaic Installers
47-4099	Construction and Related Workers, All Other
49-2011	Computer, Automated Teller, and Office Machine Repairers
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment
49-2097	Electronic Home Entertainment Equipment Installers and Repairers
51-2021	Coil Winders, Tapers, and Finishers
51-2022	Electrical and Electronic Equipment Assemblers
51-2023	Electromechanical Equipment Assemblers

## 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 Systems Installation and Maintenance 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
47-2111	Electricians	408	425	17	4%	48	12	\$24.87
47-2231	Solar Photovoltaic Installers	<10	<10	Insf. Data	Insf. Data	<10	Insf. Data	Insf. Data
47-4099	Construction and Related Workers, All Other	21	22	1	5%	<10	Insf. Data	\$17.60
49-2011	Computer, Automated Teller, and Office Machine Repairers	57	56	(1)	(2%)	<10	Insf. Data	\$19.61
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	35	37	2	6%	<10	Insf. Data	\$25.47
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	16	17	1	6%	<10	Insf. Data	\$16.39
51-2021	Coil Winders, Tapers, and Finishers	15	14	(1)	(7%)	<10	Insf. Data	\$18.24
51-2022	Electrical and Electronic Equipment Assemblers	248	245	(3)	(1%)	20	5	\$11.74
51-2023	Electromechanical Equipment Assemblers	73	66	(7)	(10%)	<10	Insf. Data	\$18.35
		878	887	9	1%	90	23	\$19.74

## Occupation Summary for Electronic Systems Installation and Maintenance 2015 (AED)

<b>869</b> Jobs (2016) 24% below National average	<b>1.0%</b> % Change (2018-2022) Nation: 3.0%	<b>\$19.74/hr</b> Median Hourly Earnings Nation: \$22.42/hr
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### Growth

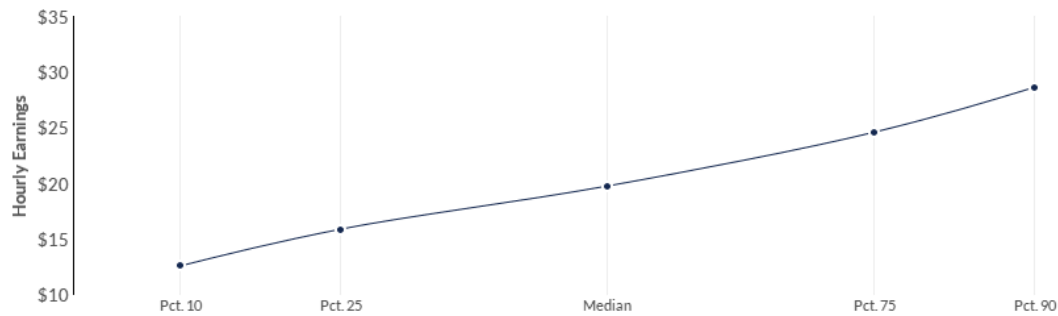
<b>878</b> 2018 Jobs	<b>887</b> 2022 Jobs	<b>9</b> Change (2018-2022)	<b>1.0%</b> % Change (2018-2022)
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Occupation	2018 Jobs	2022 Jobs	Change	% Change
Electricians (47-2111)	408	425	17	4%
Solar Photovoltaic Installers (47-2231)	4	4	0	0%
Construction and Related Workers, All Other (47-4099)	21	22	1	5%
Computer, Automated Teller, and Office Machine Repairers (49-2011)	57	56	-1	-2%
Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)	35	37	2	6%
Electronic Home Entertainment Equipment Installers and Repairers (49-2097)	16	17	1	6%
Coil Winders, Tapers, and Finishers (51-2021)	15	14	-1	-7%
Electrical and Electronic Equipment Assemblers (51-2022)	248	245	-3	-1%
Electromechanical Equipment Assemblers (51-2023)	73	66	-7	-10%

### Percentile Earnings

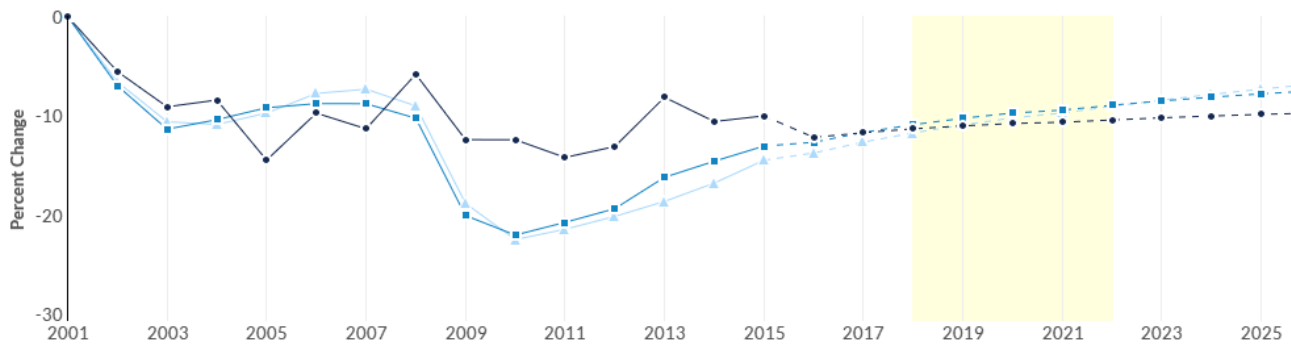
<b>\$15.86/hr</b>	<b>\$19.74/hr</b>	<b>\$24.59/hr</b>
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Occupation	2018 Jobs	2022 Jobs	Change	% Change
25th Percentile Earnings	Median Earnings		75th Percentile Earnings	



Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Electricians (47-2111)	\$19.42	\$24.87	\$31.72
Solar Photovoltaic Installers (47-2231)	\$15.48	\$16.20	\$17.08
Construction and Related Workers, All Other (47-4099)	\$14.16	\$17.60	\$21.27
Computer, Automated Teller, and Office Machine Repairers (49-2011)	\$14.58	\$19.61	\$25.46
Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)	\$22.62	\$25.47	\$27.94
Electronic Home Entertainment Equipment Installers and Repairers (49-2097)	\$13.90	\$16.39	\$18.80
Coil Winders, Tapers, and Finishers (51-2021)	\$14.54	\$18.24	\$21.98
Electrical and Electronic Equipment Assemblers (51-2022)	\$10.06	\$11.74	\$14.00
Electromechanical Equipment Assemblers (51-2023)	\$15.33	\$18.35	\$22.61

## Regional Trends



	Region	2018 Jobs	2022 Jobs	Change	% Change
●	Region	878	887	9	1.0%
●	Wisconsin	26,032	26,606	574	2.2%
●	United States	1,173,560	1,209,329	35,769	3.0%

## Regional Breakdown

County	2022 Jobs
La Crosse County, WI	418
Monroe County, WI	129
Crawford County, WI	95
Jackson County, WI	79
Juneau County, WI	77

## Occupation Gender Breakdown

Gender	2016 Jobs	2016 Percent
● Males	666	76.7%
● Females	203	23.3%

## Occupation Age Breakdown





**Maintenance 2015 (AED)**

Industry	Occupation Group Jobs in Industry (2016)	% of Occupation Group in Industry (2016)	% of Total Jobs in Industry (2016)
Electrical Contractors and Other Wiring Installation Contractors	232	26.6%	52.8%
Motor and Generator Manufacturing	86	10.0%	38.6%
Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	82	9.5%	5.7%
Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables	61	7.0%	28.8%
Local Government, Excluding Education and Hospitals	31	3.6%	0.4%

## 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