

# Occupation Overview

EMSI Q2 2015 Data Set

Welding Program  
October 2015

## Western Technical College



400 Seventh Street  
La Crosse, Wisconsin 54601  
608.785.9200

# Parameters

## Occupations

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Code	Description
51-4121	Welders, Cutters, Solderers, and Brazers
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders

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## Regions

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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

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## Timeframe

2016 - 2020

## Datarun

2015.2 – Employees

Welding 2015 (AED) in 8 Counties

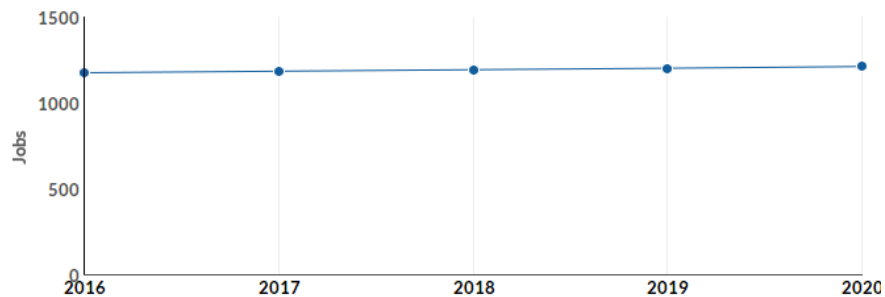
SOC	Description	2016 Jobs	2020 Jobs	2016 - 2020 Change	2016 - 2020 % Change	Openings	Annual Openings	Median Hourly Earnings
51-4121	Welders, Cutters, Solderers, and Brazers	1,076	1,099	23	2%	144	36	\$18.73
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	101	114	13	13%	24	6	\$18.13
		1,177	1,213	36	3%	167	42	\$18.69

## Occupation Summary for Welding 2015 (AED)

<b>1,166</b> Jobs (2015) 161% above National average	<b>3.1%</b> % Change (2016-2020) Nation: 2.7%	<b>\$18.69/hr</b> Median Hourly Earnings Nation: \$17.85/hr
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## Growth

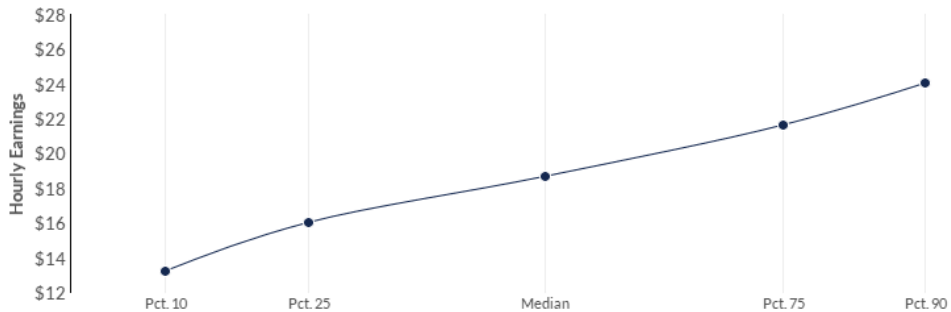
<b>1,177</b> 2016 Jobs	<b>1,213</b> 2020 Jobs	<b>36</b> Change (2016-2020)	<b>3.1%</b> % Change (2016-2020)
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Occupation	2016 Jobs	2020 Jobs	Change	% Change
Welders, Cutters, Solderers, and Brazers (51-4121)	1,076	1,099	23	2%
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders (51-4122)	101	114	13	13%

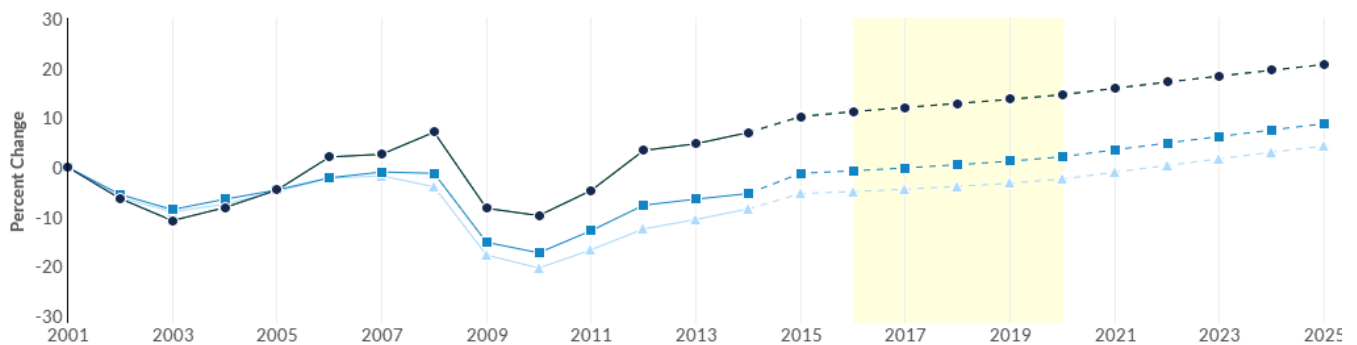
## Percentile Earnings

<b>\$16.02/hr</b> 25th Percentile Earnings	<b>\$18.69/hr</b> Median Earnings	<b>\$21.64/hr</b> 75th Percentile Earnings
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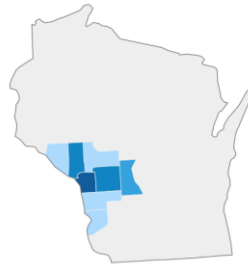
Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Welders, Cutters, Solderers, and Brazers (51-4121)	\$16.11	\$18.73	\$21.68
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders (51-4122)	\$15.01	\$18.13	\$21.11

## Regional Trends



	Region	2016 Jobs	2020 Jobs	Change	% Change
●	Region	1,177	1,213	36	3.1%
●	State	16,376	16,845	469	2.9%
●	Nation	446,084	458,026	11,942	2.7%
●	Western Technical College District	1,177	1,213	36	3.1%

## Regional Breakdown



County	2020 Jobs
La Crosse County, WI	417
Trempealeau County, WI	229
Monroe County, WI	227
Juneau County, WI	145
Vernon County, WI	66

## Occupation Gender Breakdown



Gender	2015 Jobs	2015 Percent
Males	1,102	94.5%
Females	64	5.5%

## Occupation Age Breakdown



	Age	2015 Jobs	2015 Percent
●	14-18	3	0.3%
●	19-24	105	9.0% ■
●	25-34	298	25.6% ■■
●	35-44	272	23.4% ■■
●	45-54	275	23.6% ■■
●	55-64	194	16.6% ■■
●	65+	19	1.6%

## Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2015 Jobs	2015 Percent
●	White	1,090	93.5% ■■■■■
●	Hispanic or Latino	36	3.0% ■
●	Asian	22	1.9%
●	Black or African American	9	0.8%
●	American Indian or Alaska Native	5	0.4%
●	Two or More Races	4	0.3%
●	Native Hawaiian or Other Pacific Islander	0	0.0%

## Occupational Programs

<b>1</b>		<b>38</b>		<b>63</b>	
Programs (2014)		Completions (2014)		Openings (2014)	
CIP Code	Program			Completions (2014)	
48.0508	Welding Technology/Welder			38	

## Industries Employing Welding 2015 (AED)

Industry	Occupation Group Jobs in Industry (2015)	% of Occupation Group in Industry (2015)	% of Total Jobs in Industry (2015)
Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	138	11.8%	8.3%
Farm Machinery and Equipment Manufacturing	118	10.1%	18.0%
Power Boiler and Heat Exchanger Manufacturing	108	9.2%	19.3%
All Other Miscellaneous General Purpose Machinery Manufacturing	80	6.9%	11.8%
Sheet Metal Work Manufacturing	78	6.6%	15.9%

# Appendix A - Data Sources and Calculations

## 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.

## 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.

## 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.

## 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.

## 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.

## 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.

## 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