

# Welding and Fabrication Occupation Overview

Emsi Q1 2018 Data Set

March 2018

## Western Technical College



400 Seventh Street  
La Crosse, Wisconsin 54601  
608.785.9200

# Parameters

## Occupations

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

## Regions

Code	Description
55011	Buffalo 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

2019 - 2023

## Datarun

2018.1 – QCEW Employees, Non-QCEW Employees, and Self-Employed

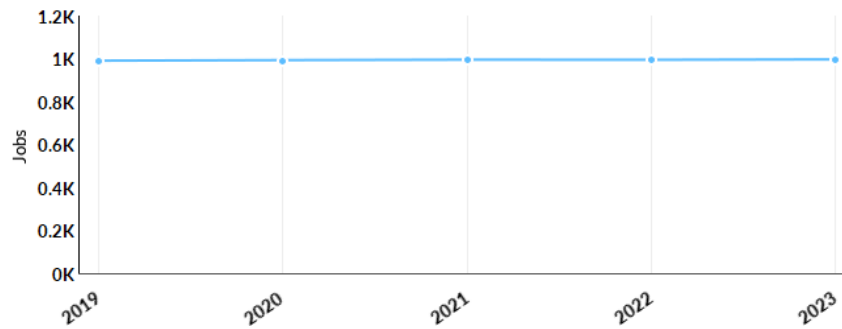
314421 WELF in Western District

## Occupation Summary for 314421 WELF

<b>990</b> Jobs (2019) 129% above National average	<b>0.6%</b> % Change (2019-2023) Nation: 1.8%	<b>\$19.26/hr</b> Median Hourly Earnings Nation: \$18.59/hr
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## Growth

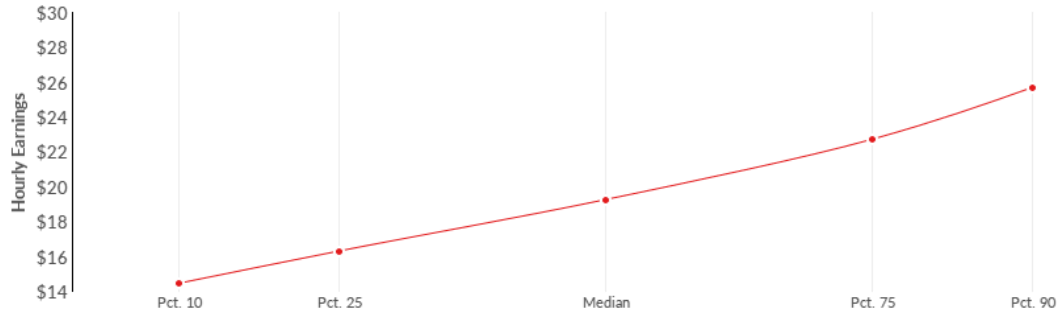
<b>990</b> 2019 Jobs	<b>996</b> 2023 Jobs	<b>6</b> Change (2019-2023)	<b>0.6%</b> % Change (2019-2023)
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Occupation	2019 Jobs	2023 Jobs	Change	% Change
Welders, Cutters, Solderers, and Brazers (51-4121)	931	936	5	1%
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders (51-4122)	59	60	1	2%

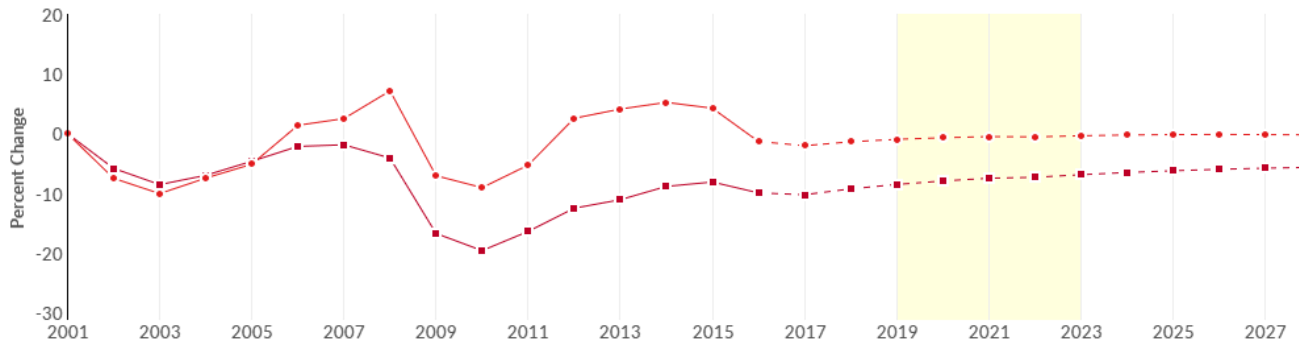
## Percentile Earnings

<b>\$16.31/hr</b> 25th Percentile Earnings	<b>\$19.26/hr</b> Median Earnings	<b>\$22.73/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)	\$16.40	\$19.38	\$22.80
Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders (51-4122)	\$14.78	\$17.44	\$20.83

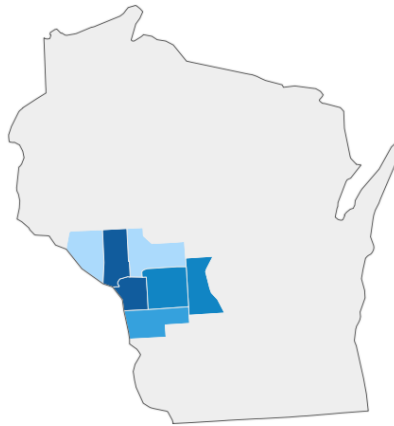
# Regional Trends



	Region	2019 Jobs	2023 Jobs	Change	% Change
●	Region	990	996	6	0.6%
●	Nation	461,534	469,787	8,253	1.8%

## Regional Breakdown

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County	2023 Jobs
La Crosse County, WI	284
Trempealeau County, WI	264
Monroe County, WI	174
Juneau County, WI	159
Vernon County, WI	63

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# Occupation Gender Breakdown

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	Gender	2017 Jobs	2017 Percent
●	Males	926	94.5% 
●	Females	54	5.5% 

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# Occupation Age Breakdown



	Age	2017 Jobs	2017 Percent
•	14-18	4	0.4%
•	19-24	81	8.3% █
•	25-34	242	24.7% █
•	35-44	222	22.7% █
•	45-54	231	23.6% █
•	55-64	178	18.1% █
•	65+	22	2.2% █

# Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2017 Jobs	2017 Percent
●	White	903	92.2%
●	Hispanic or Latino	43	4.4%
●	Asian	18	1.8%
●	Black or African American	6	0.6%
●	American Indian or Alaska Native	5	0.5%
●	Two or More Races	4	0.4%
●	Native Hawaiian or Other Pacific Islander	0	0.0%

## Occupational Programs

<b>1</b> Programs (2016)	<b>115</b> Completions (2016)	<b>108</b> Openings (2016)
CIP Code	Program	Completions (2016)
48.0508	Welding Technology/Welder	115

## Industries Employing 314421 WELF

Industry	Occupation Group Jobs in Industry (2017)	% of Occupation Group in Industry (2017)	% of Total Jobs in Industry (2017)
Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	121	12.4%	7.9%
Sheet Metal Work Manufacturing	92	9.4%	17.4%
Farm Machinery and Equipment Manufacturing	81	8.2%	12.9%
Upholstered Household Furniture Manufacturing	80	8.2%	2.1%
All Other Miscellaneous Fabricated Metal Product Manufacturing	65	6.6%	10.0%

# 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.

## 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