

Occupation Overview

Emsi Q1 2017 Data Set

April 2017

Western Technical College



400 Seventh Street
La Crosse, Wisconsin 54601
608.785.9200

Parameters

Occupations

18 items selected. See Appendix A for details.

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

Machine Tool Operation 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
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	316	335	19	6%	63	16	\$18.88
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	72	81	9	13%	19	5	\$22.80
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	88	82	(6)	(7%)	<10	Insf. Data	\$14.76
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	23	22	(1)	(4%)	<10	Insf. Data	\$14.65
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	14	14	0	0%	<10	Insf. Data	\$18.16
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	467	446	(21)	(4%)	32	8	\$17.28
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	25	24	(1)	(4%)	<10	Insf. Data	\$18.44
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	133	126	(7)	(5%)	22	6	\$17.12

51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	38	37	(1)	(3%)	<10	Insf. Data	\$18.43
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	23	23	0	0%	<10	Insf. Data	\$19.83
51-4041	Machinists	393	428	35	9%	83	21	\$19.49
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	330	322	(8)	(2%)	33	8	\$16.12
51-4111	Tool and Die Makers	193	185	(8)	(4%)	<10	Insf. Data	\$21.97
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	21	20	(1)	(5%)	<10	Insf. Data	\$17.94
51-4192	Layout Workers, Metal and Plastic	<10	<10	Insf. Data	Insf. Data	<10	Insf. Data	Insf. Data
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	35	33	(2)	(6%)	<10	Insf. Data	\$16.61
51-4194	Tool Grinders, Filers, and Sharpeners	18	18	0	0%	<10	Insf. Data	\$17.71
51-4199	Metal Workers and Plastic Workers, All Other	26	25	(1)	(4%)	<10	Insf. Data	\$17.41
		2,221	2,228	7	0%	289	72	\$18.19

Occupation Summary for Machine Tool Operation 2015 (AED)

2,199 Jobs (2016) 69% above National average	0.3% % Change (2018-2022) Nation: 1.6%	\$18.19/hr Median Hourly Earnings Nation: \$18.22/hr
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Growth

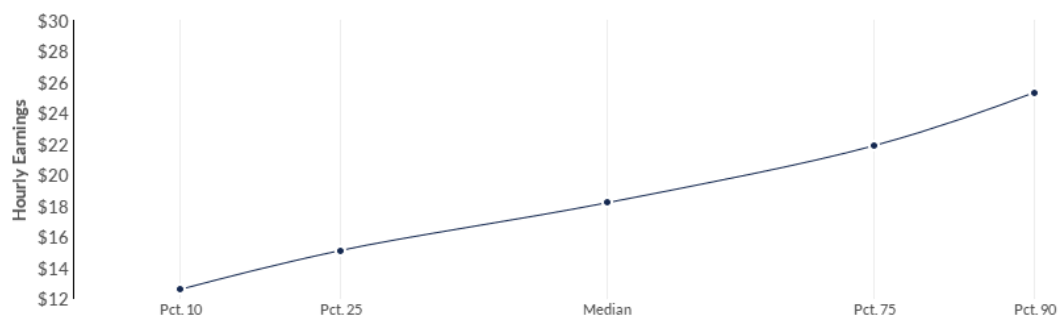
2,221 2018 Jobs	2,228 2022 Jobs	7 Change (2018-2022)	0.3% % Change (2018-2022)
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Occupation	2018 Jobs	2022 Jobs	Change	% Change
Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)	316	335	19	6%
Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (51-4012)	72	81	9	13%
Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic (51-4021)	88	82	-6	-7%
Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)	23	22	-1	-4%
Rolling Machine Setters, Operators, and Tenders, Metal and Plastic (51-4023)	14	14	0	0%
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic (51-4031)	467	446	-21	-4%
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)	25	24	-1	-4%
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4033)	133	126	-7	-5%
Lathe and Turning Machine Tool Setters, Operators, and	38	37	-1	-3%

Occupation	2018 Jobs	2022 Jobs	Change	% Change
Tenders, Metal and Plastic (51-4034)				
Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic (51-4035)	23	23	0	0%
Machinists (51-4041)	393	428	35	9%
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4081)	330	322	-8	-2%
Tool and Die Makers (51-4111)	193	185	-8	-4%
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)	21	20	-1	-5%
Layout Workers, Metal and Plastic (51-4192)	7	6	-1	-14%
Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic (51-4193)	35	33	-2	-6%
Tool Grinders, Filers, and Sharpeners (51-4194)	18	18	0	0%
Metal Workers and Plastic Workers, All Other (51-4199)	26	25	-1	-4%

Percentile Earnings

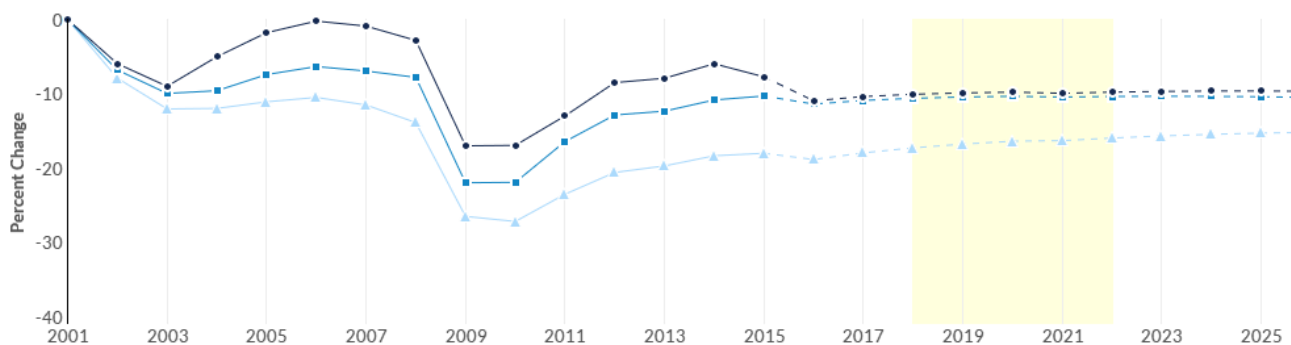
\$15.10/hr	\$18.19/hr	\$21.89/hr
25th Percentile Earnings	Median Earnings	75th Percentile Earnings



Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)	\$15.32	\$18.88	\$22.98
Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (51-4012)	\$18.98	\$22.80	\$27.25
Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic (51-4021)	\$12.86	\$14.76	\$17.83
Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)	\$11.90	\$14.65	\$17.44
Rolling Machine Setters, Operators, and Tenders, Metal and Plastic (51-4023)	\$15.02	\$18.16	\$21.04
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic (51-4031)	\$14.38	\$17.28	\$20.10
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)	\$15.31	\$18.44	\$22.74
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4033)	\$14.12	\$17.12	\$20.75
Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4034)	\$15.78	\$18.43	\$21.03
Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic (51-4035)	\$16.82	\$19.83	\$22.04
Machinists (51-4041)	\$16.39	\$19.49	\$23.65
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4081)	\$13.40	\$16.12	\$20.35
Tool and Die Makers (51-4111)	\$17.97	\$21.97	\$25.85
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)	\$14.94	\$17.94	\$21.12
Layout Workers, Metal and Plastic (51-4192)	\$20.65	\$22.72	\$24.41

Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic (51-4193)	\$13.70	\$16.61	\$20.92
Tool Grinders, Filers, and Sharpeners (51-4194)	\$14.32	\$17.71	\$21.02
Metal Workers and Plastic Workers, All Other (51-4199)	\$13.74	\$17.41	\$22.71

Regional Trends



Region	2018 Jobs	2022 Jobs	Change	% Change
● Region	2,221	2,228	7	0.3%
● Wisconsin	60,294	60,457	163	0.3%
● United States	1,326,125	1,347,339	21,214	1.6%

Regional Breakdown

County	2022 Jobs
La Crosse County, WI	641
Juneau County, WI	462
Trempealeau County, WI	441
Monroe County, WI	390
Crawford County, WI	112

Occupation Gender Breakdown

	Gender	2016 Jobs	2016 Percent
●	Males	1,879	85.4%
●	Females	320	14.6%

Occupation Age Breakdown

	Age	2016 Jobs	2016 Percent
●	14-18	9	0.4%
●	19-24	166	7.6%
●	25-34	417	19.0%
●	35-44	441	20.0%
●	45-54	606	27.6%
●	55-64	501	22.8%
●	65+	59	2.7%

Occupation Race/Ethnicity Breakdown

	Race/Ethnicity	2016 Jobs	2016 Percent
●	White	2,028	92.2%
●	Asian	77	3.5%
●	Hispanic or Latino	58	2.6%
●	Black or African American	20	0.9%
●	Two or More Races	9	0.4%
●	American Indian or Alaska Native	6	0.3%
●	Native Hawaiian or Other Pacific Islander	0	0.0%

Occupational Programs

Race/Ethnicity		2016 Jobs	2016 Percent
7	30	54	
Programs (2015)	Completions (2015)	Openings (2015)	
CIP Code	Program	Completions (2015)	
48.0507	Tool and Die Technology/Technician	18	
11.0201	Computer Programming/Programmer, General	11	
48.0503	Machine Shop Technology/Assistant	1	
11.0301	Data Processing and Data Processing Technology/Technician	0	
48.0501	Machine Tool Technology/Machinist	0	

Industries Employing Machine Tool Operation 2015 (AED)

Industry	Occupation Group Jobs in Industry (2016)	% of Occupation Group in Industry (2016)	% of Total Jobs in Industry (2016)
Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	217	9.9%	15.0%
All Other Miscellaneous Fabricated Metal Product Manufacturing	195	8.9%	26.4%
Upholstered Household Furniture Manufacturing	168	7.6%	4.3%
All Other Plastics Product Manufacturing	138	6.3%	20.2%
Farm Machinery and Equipment Manufacturing	110	5.0%	16.4%

Appendix A - Occupations

Code	Description
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic

Code	Description
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic
51-4041	Machinists
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic
51-4111	Tool and Die Makers
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic
51-4192	Layout Workers, Metal and Plastic
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic
51-4194	Tool Grinders, Filers, and Sharpeners
51-4199	Metal Workers and Plastic Workers, All Other

Appendix B - 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