

# Western Technical College

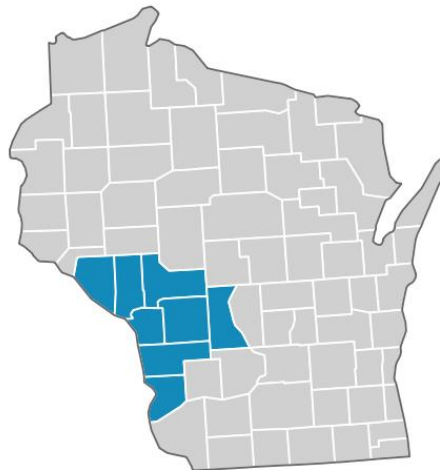


400 Seventh Street  
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608.785.9200

## Machine Tool Operation Program Occupation Report

**June 2014**

Western Technical College District



## Report Info

Dataset Version	2014.2 Class of Worker
Class of Worker Categories	QCEW Employees + Non-QCEW Employees + Self-Employed
Timeframe	2015 - 2019
Region Name	Western Technical College District
Region Description	Western district counties
Counties	

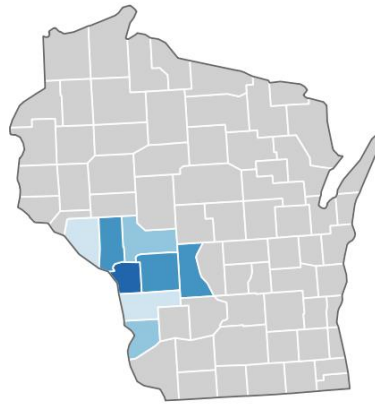
Buffalo, WI (55011)	Crawford, WI (55023)	Jackson, WI (55053)
Juneau, WI (55057)	La Crosse, WI (55063)	Monroe, WI (55081)
Trempealeau, WI (55121)	Vernon, WI (55123)	

## Occupation Group

Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)
Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (51-4012)
Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic (51-4021)
Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)
Rolling Machine Setters, Operators, and Tenders, Metal and Plastic (51-4023)
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic (51-4031)
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4033)
Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4034)
Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic (51-4035)
Machinists (51-4041)
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4081)
Tool and Die Makers (51-4111)
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)
Layout Workers, Metal and Plastic (51-4192)
Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic (51-4193)
Tool Grinders, Filers, and Sharpeners (51-4194)
Metal Workers and Plastic Workers, All Other (51-4199)

## Job Distribution

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### Overview

Annual Openings Estimate (2014)	78
Related Completions (2012)	5
Current Job Postings	N/A for Multiple Codes

#### Gender

Male	87%	<div style="width: 87%;"></div>
Female	13%	<div style="width: 13%;"></div>

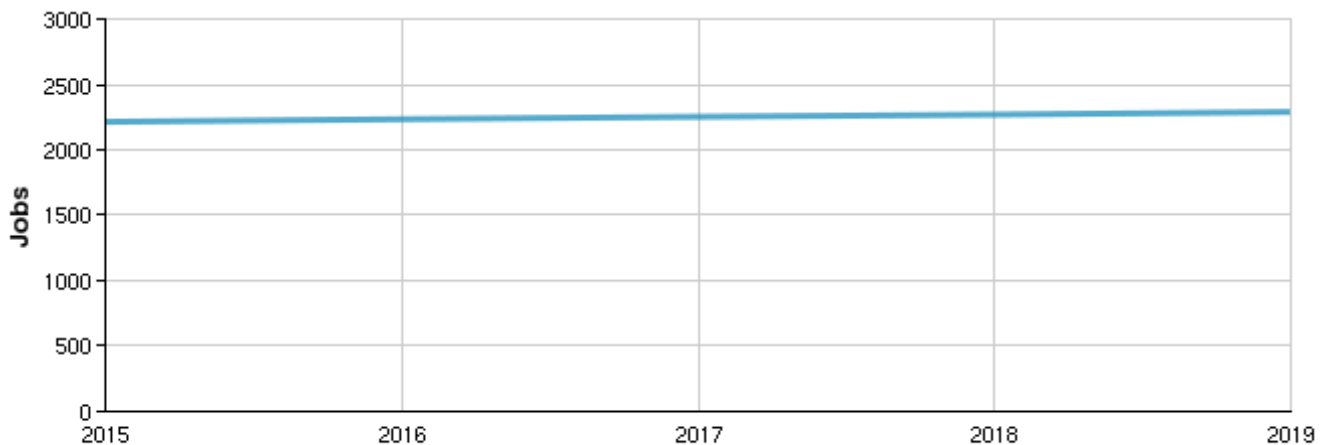
#### Age

14-18	0%	<div style="width: 0%;"></div>
19-24	6%	<div style="width: 6%;"></div>
25-44	40%	<div style="width: 40%;"></div>
45-64	52%	<div style="width: 52%;"></div>
65+	2%	<div style="width: 2%;"></div>

<b>2,193</b> Jobs (2014) National Location Quotient: 1.60	<b>3.4%</b> % Change (2015-2019) Nation: 0.0%	<b>\$17.27/hr</b> Median Earnings Nation: \$17.36/hr
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### Western Technical College District | Growth

<b>2,214</b> 2015 Jobs	<b>2,290</b> 2019 Jobs	<b>75</b> Change (2015-2019)	<b>3.4%</b> % Change (2015-2019)
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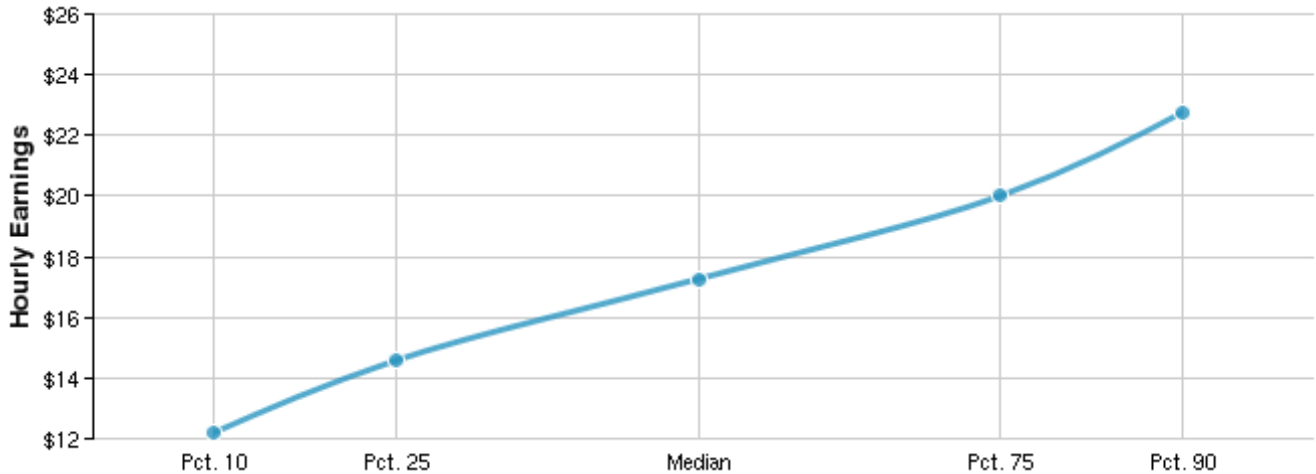


Occupation	2015 Jobs	2019 Jobs	Change	% Change
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic (51-4031)	446	435	-11	-2%
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)	16	19	3	19%
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)	27	28	1	4%
Layout Workers, Metal and Plastic (51-4192)	6	7	1	17%
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4033)	88	93	5	6%
Lathe and Turning Machine	68	69	1	1%

Occupation	2015 Jobs	2019 Jobs	Change	% Change
Tool Setters, Operators, and Tenders, Metal and Plastic (51-4034)				
Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic (51-4193)	27	35	8	30%
Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic (51-4035)	17	18	1	6%
Tool Grinders, Filers, and Sharpeners (51-4194)	14	14	0	0%
Tool and Die Makers (51-4111)	186	181	-5	-3%
Metal Workers and Plastic Workers, All Other (51-4199)	104	103	-1	-1%
Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)	276	299	23	8%
Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (51-4012)	47	54	7	15%
Machinists (51-4041)	593	637	44	7%
Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic (51-4021)	29	29	0	0%
Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)	13	13	0	0%
Rolling Machine Setters, Operators, and Tenders, Metal and Plastic (51-4023)	20	22	2	10%
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4081)	238	232	-6	-3%

## Western Technical College District | Percentile Earnings

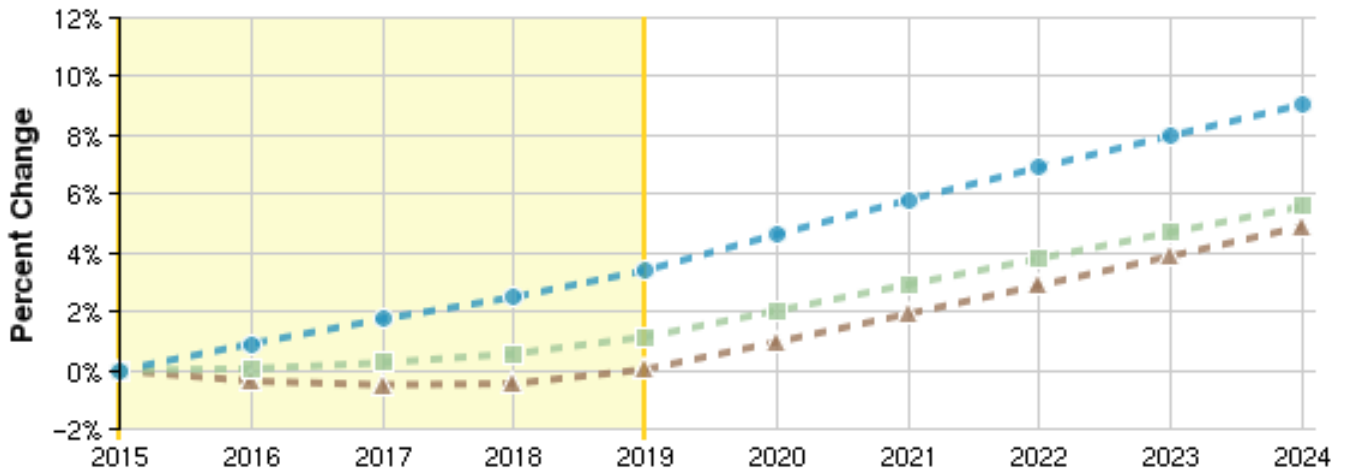
<b>\$12.21/hr</b> 10th Percentile Earnings	<b>\$17.27/hr</b> Median Earnings	<b>\$22.75/hr</b> 90th Percentile Earnings
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Occupation	10th Percentile Earnings	Median Earnings	90th Percentile Earnings
Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic (51-4031)	\$11.50	\$16.54	\$21.12
Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic (51-4191)	\$10.96	\$15.32	\$20.36
Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4032)	\$12.06	\$16.78	\$21.61
Layout Workers, Metal and Plastic (51-4192)	\$24.67	\$26.90	\$29.28
Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4033)	\$8.68	\$12.92	\$17.69
Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4034)	\$12.93	\$17.11	\$22.16
Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic (51-4193)	\$8.98	\$12.87	\$18.10
Milling and Planing Machine Setters, Operators, and Tenders,	\$13.67	\$16.16	\$18.55

<b>Occupation</b>	<b>10th Percentile Earnings</b>	<b>Median Earnings</b>	<b>90th Percentile Earnings</b>
Metal and Plastic (51-4035)			
Tool Grinders, Filers, and Sharpeners (51-4194)	\$13.20	\$18.33	\$22.16
Tool and Die Makers (51-4111)	\$14.99	\$22.12	\$28.28
Metal Workers and Plastic Workers, All Other (51-4199)	\$10.10	\$14.31	\$20.16
Computer-Controlled Machine Tool Operators, Metal and Plastic (51-4011)	\$10.57	\$15.04	\$20.48
Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (51-4012)	\$16.35	\$21.27	\$29.64
Machinists (51-4041)	\$12.83	\$17.90	\$24.21
Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic (51-4021)	\$9.67	\$11.93	\$15.96
Forging Machine Setters, Operators, and Tenders, Metal and Plastic (51-4022)	\$9.50	\$13.52	\$18.07
Rolling Machine Setters, Operators, and Tenders, Metal and Plastic (51-4023)	\$13.45	\$17.25	\$20.71
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic (51-4081)	\$13.29	\$19.19	\$24.58

## Regional Trends



Region	2015 Jobs	2019 Jobs	% Change
Western Technical College District	2,214	2,290	3.4%
State	56,601	57,245	1.1%
Nation	1,324,805	1,325,229	0.0%

## Educational programs

7 Programs (2012)	5 Completions (2012)
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Program	2008	2009	2010	2011	2012
Machine Shop Technology/Assistant (48.0503)	6	0	0	0	3
Tool and Die Technology/Technician (48.0507)	0	0	0	0	1
Machine Tool Technology/Machinist (48.0501)	0	1	9	4	1
Precision Metal Working, Other (48.0599)	0	0	0	0	0
Computer Programming/Programmer, General	6	7	1	0	0



Program	2008	2009	2010	2011	2012
(11.0201)					

### Inverse Staffing Patterns

Industry	Occupation Group Jobs in Industry (2014)	% of Occupation Group in Industry (2014)	% of Total Jobs in Industry (2014)
Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing (333415)	225	10.2%	12.4%
Nonupholstered Wood Household Furniture Manufacturing (337122)	207	9.4%	5.5%
All Other Miscellaneous Fabricated Metal Product Manufacturing (332999)	196	8.9%	24.9%
Bolt, Nut, Screw, Rivet, and Washer Manufacturing (332722)	161	7.3%	56.5%
Special Die and Tool, Die Set, Jig, and Fixture Manufacturing (333514)	107	4.9%	49.9%

## Data Sources and Calculations

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### State Data Sources

This report uses state data from the following agencies: Wisconsin Department of Workforce Development, Bureau of Workforce Information

### 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.

### 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.