

# Occupation Overview

EMSI Q2 2015 Data Set

Fire Protection Technician Program  
October 2015

## Western Technical College



400 Seventh Street  
La Crosse, Wisconsin 54601  
608.785.9200

# Parameters

## Occupations

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Code	Description
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers
33-2011	Firefighters
33-2021	Fire Inspectors and Investigators
33-2022	Forest Fire Inspectors and Prevention Specialists

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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

Fire Protection tech (2 years) 6/2013 (AED) in 8 Counties

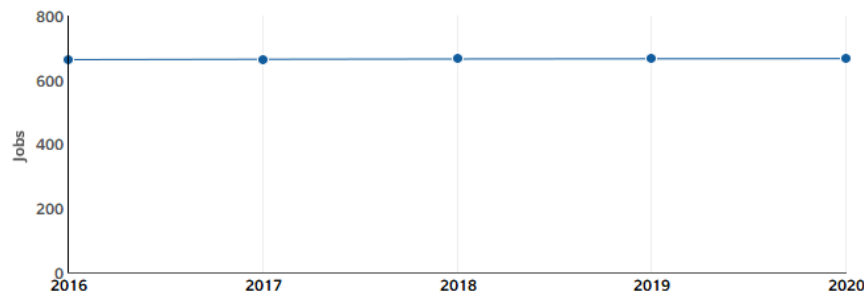
SOC	Description	2016 Jobs	2020 Jobs	2016 - 2020 Change	2016 - 2020 % Change	Openings	Annual Openings	Median Hourly Earnings
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	30	30	0	0%	<10	Insf. Data	\$31.52
33-2011	Firefighters	627	630	3	0%	78	20	\$9.82
33-2021	Fire Inspectors and Investigators	<10	<10	Insf. Data	Insf. Data	<10	Insf. Data	Insf. Data
33-2022	Forest Fire Inspectors and Prevention Specialists	<10	<10	Insf. Data	Insf. Data	<10	Insf. Data	Insf. Data
		665	668	3	0%	85	21	\$10.96

### Occupation Summary for Fire Protection tech (2 years) 6/2013 (AED)

<b>663</b> Jobs (2015) 66% above National average	<b>0.5%</b> % Change (2016-2020) Nation: 2.6%	<b>\$10.96/hr</b> Median Hourly Earnings Nation: \$24.08/hr
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### Growth

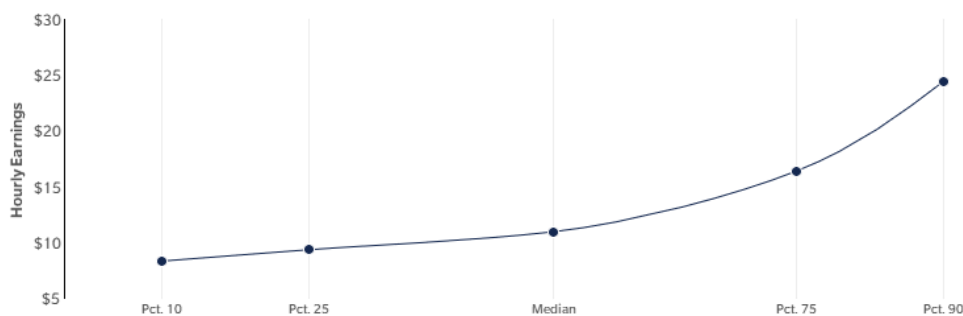
<b>665</b> 2016 Jobs	<b>668</b> 2020 Jobs	<b>3</b> Change (2016-2020)	<b>0.5%</b> % Change (2016-2020)
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Occupation	2016 Jobs	2020 Jobs	Change	% Change
First-Line Supervisors of Fire Fighting and Prevention Workers (33-1021)	30	30	0	0%
Firefighters (33-2011)	627	630	3	0%
Fire Inspectors and Investigators (33-2021)	6	6	0	0%
Forest Fire Inspectors and Prevention Specialists (33-2022)	2	2	0	0%

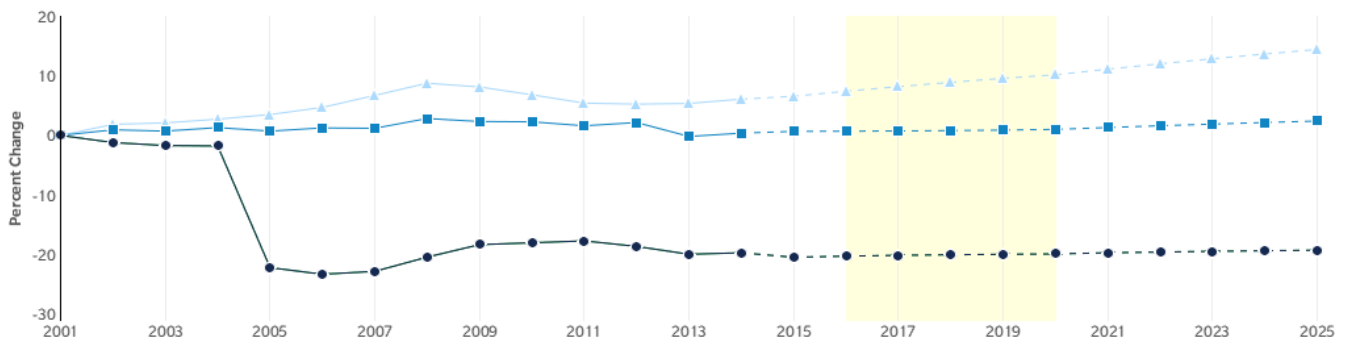
## Percentile Earnings

<b>\$9.35/hr</b> 25th Percentile Earnings	<b>\$10.96/hr</b> Median Earnings	<b>\$16.42/hr</b> 75th Percentile Earnings
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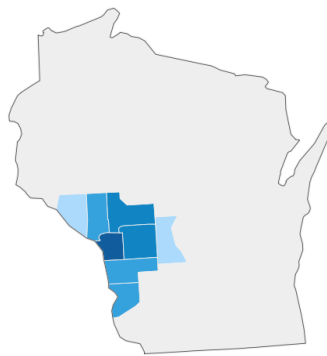
Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
First-Line Supervisors of Fire Fighting and Prevention Workers (33-1021)	\$23.21	\$31.52	\$36.25
Firefighters (33-2011)	\$8.56	\$9.82	\$15.35
Fire Inspectors and Investigators (33-2021)	\$22.46	\$27.24	\$28.97
Forest Fire Inspectors and Prevention Specialists (33-2022)	\$12.75	\$16.07	\$23.60

## Regional Trends



	Region	2016 Jobs	2020 Jobs	Change	% Change
●	Region	665	668	3	0.5%
●	State	9,964	9,995	31	0.3%
●	Nation	401,016	411,316	10,300	2.6%
●	Western Technical College District	665	668	3	0.5%

## Regional Breakdown



County	2020 Jobs
La Crosse County, WI	187
Jackson County, WI	126
Monroe County, WI	121
Vernon County, WI	61
Trempealeau County, WI	54

## Occupation Gender Breakdown



	Gender	2015 Jobs	2015 Percent
•	Males	607	91.5%
•	Females	57	8.5%

## Occupation Age Breakdown



	Age	2015 Jobs	2015 Percent
•	14-18	4	0.6%
•	19-24	53	8.0%
•	25-34	147	22.1%
•	35-44	197	29.7%
•	45-54	184	27.7%
•	55-64	68	10.3%
•	65+	10	1.5%

## Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2015 Jobs	2015 Percent
●	White	603	91.0%
●	American Indian or Alaska Native	23	3.4%
●	Black or African American	20	3.1%
●	Hispanic or Latino	9	1.4%
●	Two or More Races	6	0.9%
●	Asian	2	0.3%
●	Native Hawaiian or Other Pacific Islander	0	0.0%

## Occupational Programs

2 Programs (2014)		5 Completions (2014)	19 Openings (2014)
CIP Code	Program	Completions (2014)	
43.0203	Fire Science/Fire-fighting	5	
43.0201	Fire Prevention and Safety Technology/Technician	0	

## Industries Employing Fire Protection tech (2 years) 6/2013 (AED)

Industry	Occupation Group Jobs in Industry (2015)	% of Occupation Group in Industry (2015)	% of Total Jobs in Industry (2015)
Local Government, Excluding Education and Hospitals	606	91.4%	7.5%
Federal Government, Civilian, Excluding Postal Service	25	3.8%	0.8%
Packaging and Labeling Services	16	2.5%	6.5%
State Government, Excluding Education and Hospitals	10	1.5%	0.5%
All Other Support Services	<10	0.6%	5.5%

# 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