

Occupation Overview

EMSI Q2 2015 Data Set

It-Web and Software Developer Program
October 2015

Western Technical College



400 Seventh Street
La Crosse, Wisconsin 54601
608.785.9200

Parameters

Occupations

Code	Description
15-1131	Computer Programmers
15-1132	Software Developers, Applications
15-1133	Software Developers, Systems Software
15-1134	Web Developers
15-1141	Database Administrators
15-1199	Computer Occupations, All Other
43-9031	Desktop Publishers

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

2016 - 2020

Datarun

2015.2 – Employees

IT-Web and Software Developer 2015 (AED) in 8 Counties

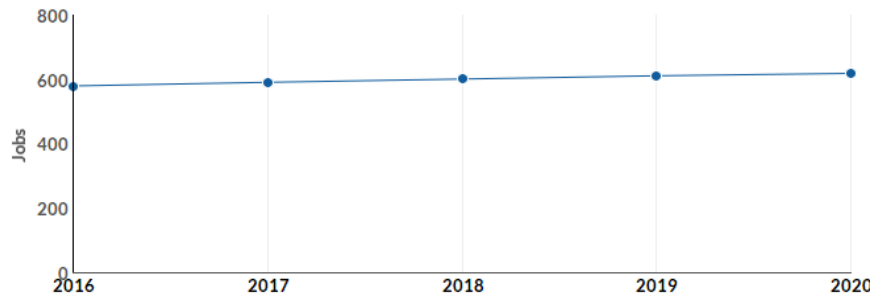
SOC	Description	2016 Jobs	2020 Jobs	2016 - 2020 Change	2016 - 2020 % Change	Openings	Annual Openings	Median Hourly Earnings
15-1131	Computer Programmers	148	151	3	2%	19	5	\$26.62
15-1132	Software Developers, Applications	161	177	16	10%	25	6	\$34.71
15-1133	Software Developers, Systems Software	53	62	9	17%	12	3	\$36.61
15-1134	Web Developers	44	48	4	9%	<10	Insf. Data	\$23.53
15-1141	Database Administrators	46	50	4	9%	<10	Insf. Data	\$31.27
15-1199	Computer Occupations, All Other	120	123	3	3%	11	3	\$33.53
43-9031	Desktop Publishers	<10 580	10 619	Insf. Data 39	Insf. Data 7%	<10 83	Insf. Data 21	Insf. Data \$31.11

Occupation Summary for IT-Web and Software Developer 2015 (AED)

568 Jobs (2015) 71% below National average	6.7% % Change (2016-2020) Nation: 6.8%	\$31.11/hr Median Hourly Earnings Nation: \$42.87/hr
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Growth

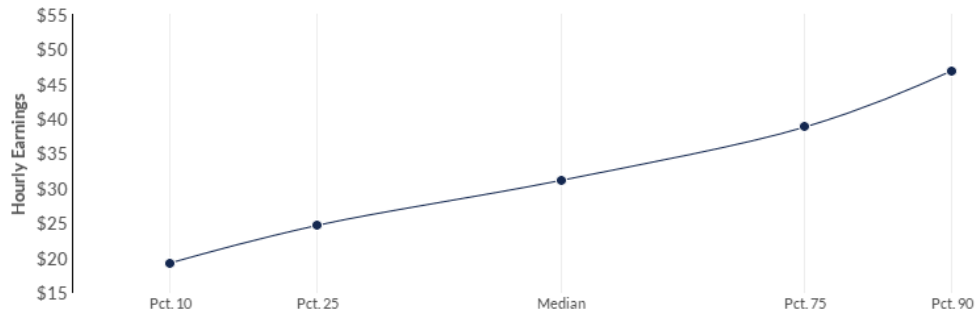
580 2016 Jobs	619 2020 Jobs	39 Change (2016-2020)	6.7% % Change (2016-2020)
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Occupation	2016 Jobs	2020 Jobs	Change	% Change
Computer Programmers (15-1131)	148	151	3	2%
Software Developers, Applications (15-1132)	161	177	16	10%
Software Developers, Systems Software (15-1133)	53	62	9	17%
Web Developers (15-1134)	44	48	4	9%
Database Administrators (15-1141)	46	50	4	9%
Computer Occupations, All Other (15-1199)	120	123	3	3%
Desktop Publishers (43-9031)	10	10	0	0%

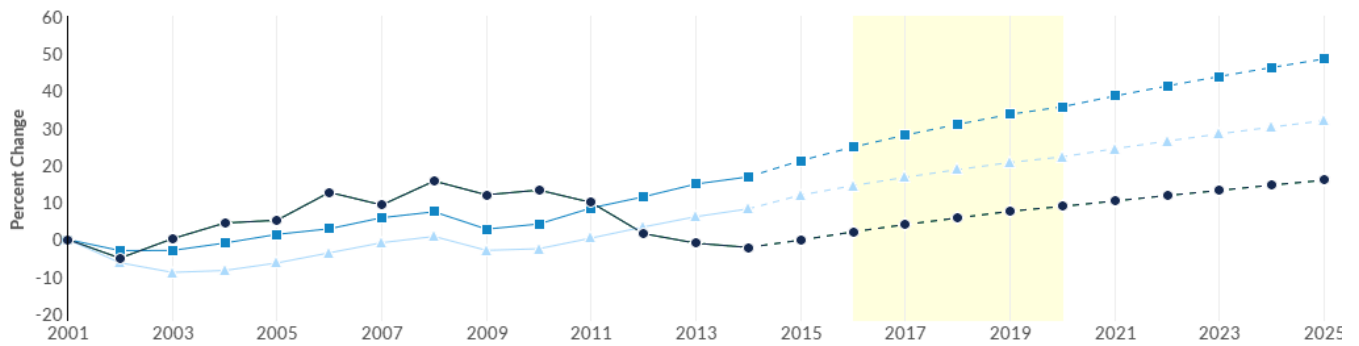
Percentile Earnings

\$24.62/hr 25th Percentile Earnings	\$31.11/hr Median Earnings	\$38.79/hr 75th Percentile Earnings
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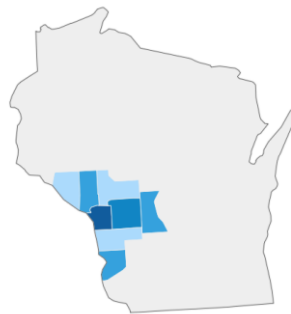
Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Computer Programmers (15-1131)	\$21.09	\$26.62	\$32.97
Software Developers, Applications (15-1132)	\$27.64	\$34.71	\$42.45
Software Developers, Systems Software (15-1133)	\$29.77	\$36.61	\$47.36
Web Developers (15-1134)	\$18.37	\$23.53	\$30.33
Database Administrators (15-1141)	\$24.43	\$31.27	\$39.09
Computer Occupations, All Other (15-1199)	\$26.13	\$33.53	\$42.15
Desktop Publishers (43-9031)	\$15.71	\$19.17	\$23.48

Regional Trends



	Region	2016 Jobs	2020 Jobs	Change	% Change
●	Region	580	619	39	6.7%
■	State	29,260	31,804	2,544	8.7%
▲	Nation	1,961,269	2,094,179	132,910	6.8%
●	Western Technical College District	580	619	39	6.7%

Regional Breakdown



County	2020 Jobs
La Crosse County, WI	383
Monroe County, WI	78
Trempealeau County, WI	43
Juneau County, WI	35
Crawford County, WI	32

Occupation Gender Breakdown



	Gender	2015 Jobs	2015 Percent
•	Males	408	71.8%
•	Females	160	28.2%

Occupation Age Breakdown



	Age	2015 Jobs	2015 Percent
•	14-18	3	0.6%
•	19-24	32	5.6%
•	25-34	141	24.9%
•	35-44	161	28.4%
•	45-54	142	25.1%
•	55-64	78	13.7%
•	65+	10	1.7%

Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2015 Jobs	2015 Percent
●	White	507	89.3%
●	Asian	44	7.8%
●	Black or African American	8	1.4%
●	Hispanic or Latino	4	0.8%
●	Two or More Races	2	0.4%
●	American Indian or Alaska Native	2	0.3%
●	Native Hawaiian or Other Pacific Islander	0	0.0%

Occupational Programs

11 Programs (2014)		111 Completions (2014)	23 Openings (2014)
CIP Code	Program	Completions (2014)	
11.0101	Computer and Information Sciences, General	33	
11.0901	Computer Systems Networking and Telecommunications	25	
52.1201	Management Information Systems, General	23	
14.0903	Computer Software Engineering	15	
11.0201	Computer Programming/Programmer, General	6	

Industries Employing IT-Web and Software Developer 2015 (AED)

Industry	Occupation Group Jobs in Industry (2015)	% of Occupation Group in Industry (2015)	% of Total Jobs in Industry (2015)
Federal Government, Civilian, Excluding Postal Service	60	10.6%	1.9%
Software Publishers	55	9.8%	27.8%
Corporate, Subsidiary, and Regional Managing Offices	55	9.7%	2.6%
Computer Systems Design Services	35	6.1%	23.5%
Custom Computer Programming Services	33	5.9%	23.5%

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