

IT Web and Software Developer 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
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
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

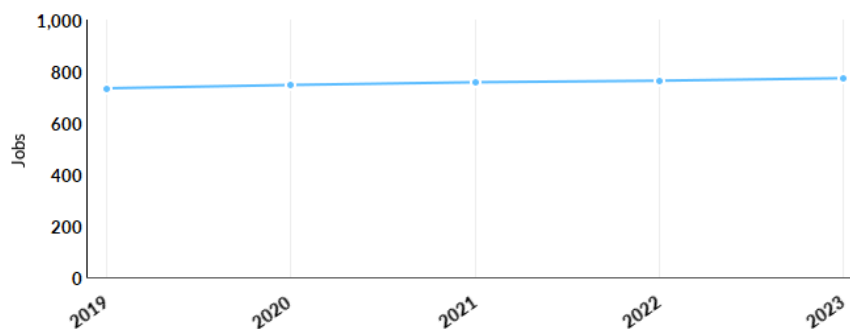
BUS 101527 ITWS in Western District

Occupation Summary for BUS 101527 ITWS

733 Jobs (2019) 65% below National average	5.3% % Change (2019-2023) Nation: 5.4%	\$28.64/hr Median Hourly Earnings Nation: \$43.96/hr
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Growth

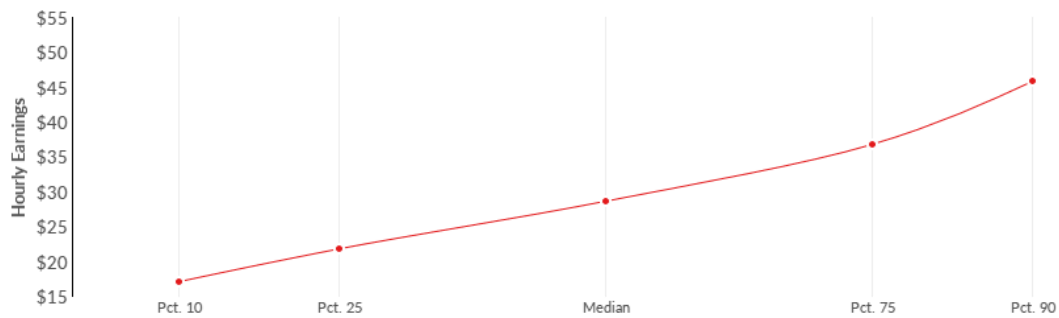
733 2019 Jobs	772 2023 Jobs	39 Change (2019-2023)	5.3% % Change (2019-2023)
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Occupation	2019 Jobs	2023 Jobs	Change	% Change
Computer Programmers (15-1131)	169	165	-4	-2%
Software Developers, Applications (15-1132)	230	249	19	8%
Software Developers, Systems Software (15-1133)	64	72	8	13%
Web Developers (15-1134)	76	84	8	11%
Database Administrators (15-1141)	40	44	4	10%
Computer Occupations, All Other (15-1199)	146	150	4	3%
Desktop Publishers (43-9031)	8	8	0	0%

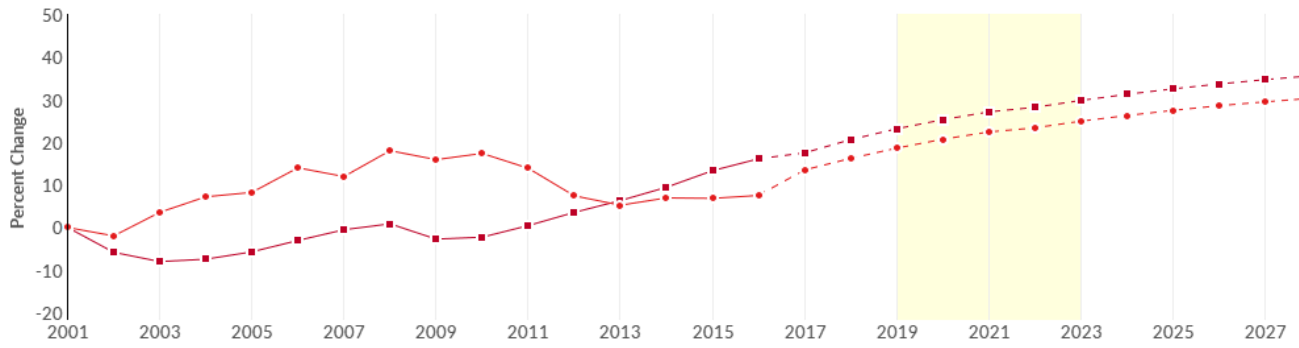
Percentile Earnings

\$21.80/hr 25th Percentile Earnings	\$28.64/hr Median Earnings	\$36.79/hr 75th Percentile Earnings
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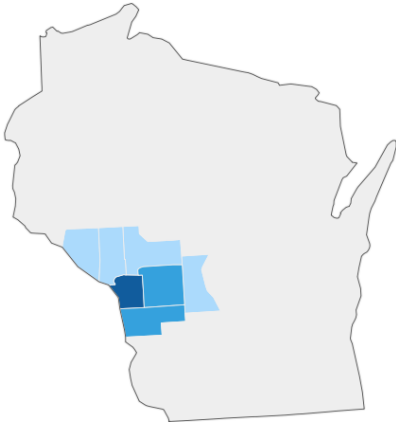
Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Computer Programmers (15-1131)	\$19.89	\$23.85	\$29.25
Software Developers, Applications (15-1132)	\$24.35	\$32.05	\$40.51
Software Developers, Systems Software (15-1133)	\$29.80	\$39.06	\$47.11
Web Developers (15-1134)	\$15.35	\$19.32	\$24.92
Database Administrators (15-1141)	\$23.67	\$31.05	\$39.02
Computer Occupations, All Other (15-1199)	\$26.74	\$32.96	\$39.63
Desktop Publishers (43-9031)	\$14.18	\$17.86	\$22.57

Regional Trends



	Region	2019 Jobs	2023 Jobs	Change	% Change
●	Region	733	772	39	5.3%
●	Nation	2,248,930	2,370,427	121,497	5.4%

Regional Breakdown



County	2023 Jobs
La Crosse County, WI	537
Monroe County, WI	100
Vernon County, WI	41
Trempealeau County, WI	33
Juneau County, WI	29

Occupation Gender Breakdown



	Gender	2017 Jobs	2017 Percent	
●	Males	527	75.1%	<div style="width: 75.1%;"></div>
●	Females	175	24.9%	<div style="width: 24.9%;"></div>

Occupation Age Breakdown



	Age	2017 Jobs	2017 Percent
●	14-18	4	0.5%
●	19-24	45	6.4% ■
●	25-34	185	26.4% ■■■■
●	35-44	193	27.5% ■■■■■
●	45-54	166	23.7% ■■■■
●	55-64	96	13.6% ■■■
●	65+	13	1.8%

Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2017 Jobs	2017 Percent
•	White	603	86.0%
•	Asian	72	10.2%
•	Black or African American	13	1.8%
•	Hispanic or Latino	7	1.0%
•	Two or More Races	5	0.7%
•	American Indian or Alaska Native	2	0.2%
•	Native Hawaiian or Other Pacific Islander	0	0.0%

Occupational Programs

11 Programs (2016)		122 Completions (2016)	83 Openings (2016)
CIP Code	Program	Completions (2016)	
11.0101	Computer and Information Sciences, General	29	
11.0201	Computer Programming/Programmer, General	28	
52.1201	Management Information Systems, General	28	
14.0903	Computer Software Engineering	20	
11.0901	Computer Systems Networking and Telecommunications	12	

Industries Employing BUS 101527 ITWS

Industry	Occupation Group Jobs in Industry (2017)	% of Occupation Group in Industry (2017)	% of Total Jobs in Industry (2017)
Corporate, Subsidiary, and Regional Managing Offices	70	9.9%	3.0%
Federal Government, Civilian, Excluding Postal Service	62	8.9%	2.0%
Custom Computer Programming Services	59	8.4%	31.1%
Computer Systems Design Services	49	6.9%	30.2%
Software Publishers	40	5.8%	24.4%

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