

Occupation Overview

EMSI Q2 2015 Data Set

756 Old State Route 74
Cincinnati, Ohio 45245
513.943.3000

Parameters

Occupations

Code	Description
15-0000	Computer and Mathematical Occupations

Regions

Code	Description
39025	Clermont County, OH

Timeframe

2015 - 2019

Datarun

2015.2 – QCEW Employees

Computer and Mathematical Occupations in Clermont County, OH

Occupation Summary for Computer and Mathematical Occupations

<p>1,615 Jobs (2015) 0% below National average</p>	<p>+9.9% % Change (2015-2019) Nation: +7.9%</p>	<p>\$32.93/hr Median Hourly Earnings Nation: \$38.49/hr</p>
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Growth

1,615

2015 Jobs

1,775

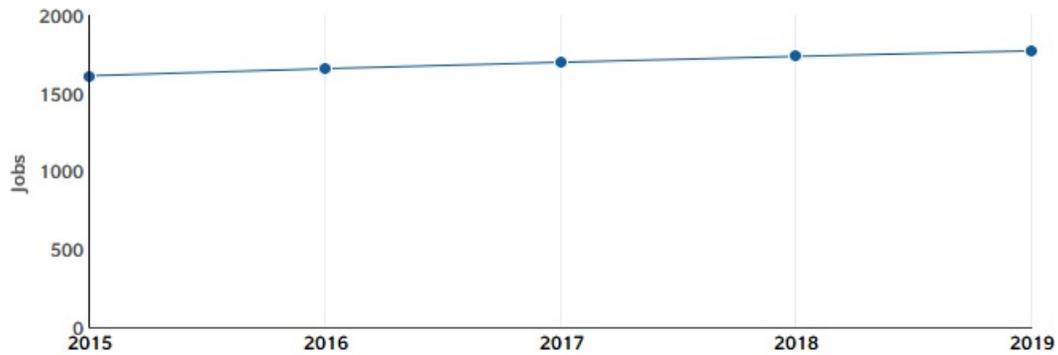
2019 Jobs

160

Change (2015-2019)

9.9%

% Change (2015-2019)



Occupation	2015 Jobs	2019 Jobs	Change	% Change
Computer and Information Research Scientists (15-1111)	1	1	0	0%
Computer Systems Analysts (15-1121)	297	332	35	12%
Information Security Analysts (15-1122)	23	26	3	13%
Computer Programmers (15-1131)	71	79	8	11%
Software Developers, Applications (15-1132)	486	527	41	8%
Software Developers, Systems Software (15-1133)	77	88	11	14%
Web Developers (15-1134)	46	50	4	9%
Database Administrators (15-1141)	56	60	4	7%
Network and Computer Systems Administrators (15-1142)	164	178	14	9%
Computer Network Architects (15-1143)	29	32	3	10%
Computer User Support Specialists (15-1151)	202	226	24	12%
Computer Network Support Specialists (15-1152)	81	85	4	5%
Computer Occupations, All Other (15-1199)	47	51	4	9%

Actuaries (15-2011)	10	11	1	10%
Mathematicians (15-2021)	0	0	0	0%
Operations Research Analysts (15-2031)	16	18	2	13%
Statisticians (15-2041)	8	9	1	13%
Mathematical Technicians (15-2091)	0	0	0	0%
Mathematical Science Occupations, All Other (15-2099)	0	0	0	0%

Percentile Earnings for Computer and Mathematical Occupations (15-0000)

\$25.83/hr

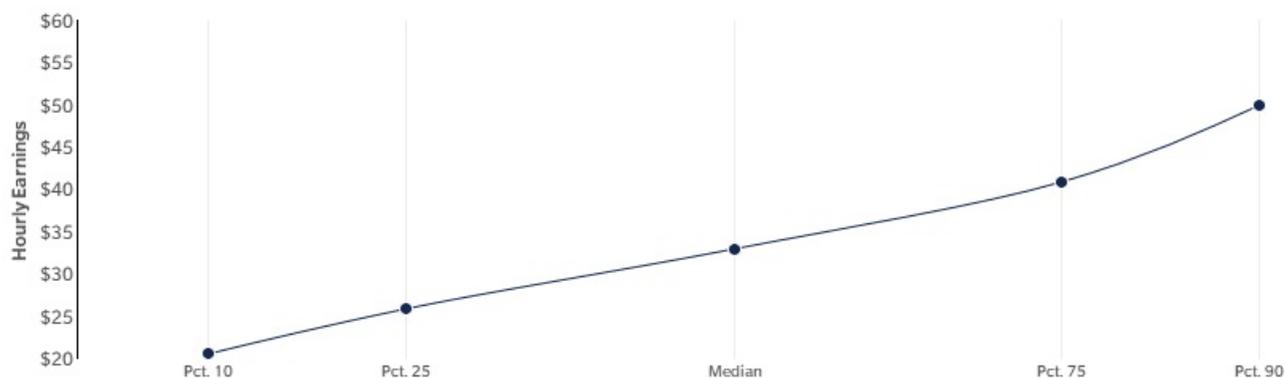
25th Percentile Earnings

\$32.93/hr

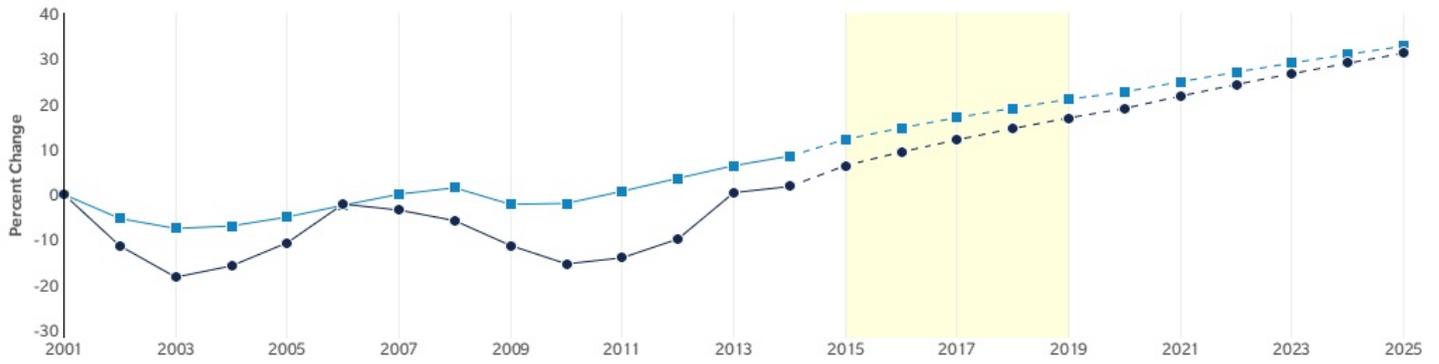
Median Earnings

\$40.88/hr

75th Percentile Earnings



Regional Trends



Region	2015 Jobs	2019 Jobs	Change	% Change
● Region	1,615	1,775	160	9.9%
■ United States	3,983,945	4,299,220	315,275	7.9%

Regional Breakdown



County	2019 Jobs
Clermont County, OH	1,775

Job Postings Summary

189

Unique Postings (Jul 2015)
571 Total Postings

3 : 1

Posting Intensity (Jul 2015)
Regional Average: 6 : 1

There were 571 total job postings for *Computer and Mathematical Occupations* in July 2015, of which 189 were unique. These numbers give us a Posting Intensity of 3-to-1, meaning that for every 3 postings there is 1 unique job posting.

This is lower than the Posting Intensity for all other occupations and companies in the region (6-to-1), indicating that companies may not be trying as hard to hire this position.

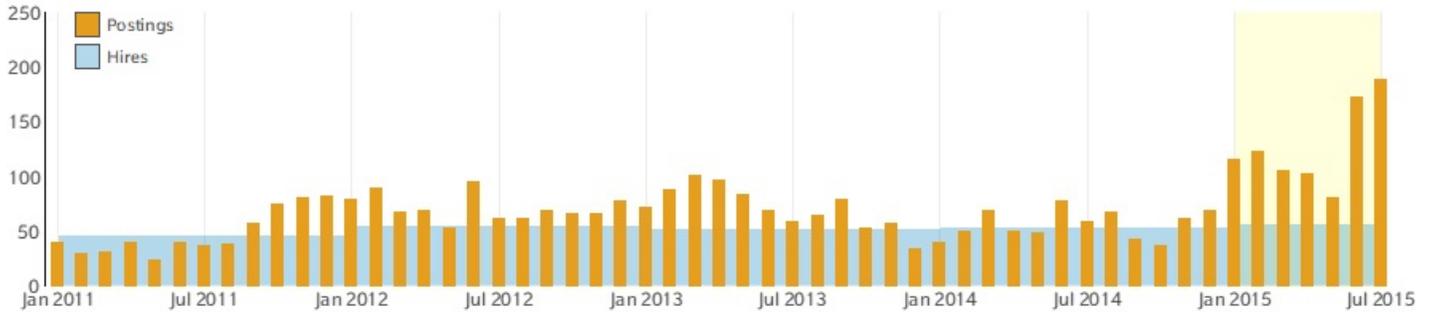
Postings vs. Hires

127

Avg. Monthly Postings (Jan 2015 - Jul 2015)

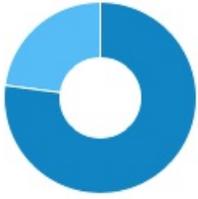
57

Avg. Monthly Hires (Jan 2015 - Jul 2015)



Occupation	Avg Monthly Postings (Jan 2015 - Jul 2015)	Avg Monthly Hires (Jan 2015 - Jul 2015)
Computer and Mathematical Occupations	127	57

Occupation Gender Breakdown



Gender	2015 Jobs	2015 Percent
● Males	1,245	77.1%
● Females	370	22.9%

Occupation Age Breakdown



Age	2015 Jobs	2015 Percent
● 14-18	3	0.2%
● 19-24	92	5.7%
● 25-34	409	25.3%
● 35-44	465	28.8%
● 45-54	417	25.8%
● 55-64	203	12.6%
● 65+	26	1.6%

Occupation Race/Ethnicity Breakdown



Race/Ethnicity	2015 Jobs	2015 Percent
White	1,314	81.3%
Asian	199	12.3%
Black or African American	73	4.5%
Hispanic or Latino	18	1.1%
Two or More Races	9	0.6%
American Indian or Alaska Native	2	0.1%
Native Hawaiian or Other Pacific Islander	0	0.0%

Occupational Programs

3

Programs (2014)

9

Completions (2014)

95

Openings (2014)

CIP Code	Program	Completions (2014)
11.0401	Information Science/Studies	9
11.0301	Data Processing and Data Processing Technology/Technician	0
11.0101	Computer and Information Sciences, General	0

Industries Employing Computer and Mathematical Occupations

Industry	Occupation Jobs in Industry (2015)	% of Occupation in Industry (2015)	% of Total Jobs in Industry (2015)
Software Publishers	365	22.6%	52.4%
Computer Systems Design Services	185	11.5%	58.7%
Custom Computer Programming Services	178	11.0%	58.7%
Direct Property and Casualty Insurance Carriers	87	5.4%	8.4%
Temporary Help Services	57	3.5%	4.0%

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.

Job Postings Data

In partnership with EMSI's parent company CareerBuilder and other third party aggregators, EMSI collects its job postings data by scraping approximately 30,000 websites. EMSI then cleans the data and applies a two-step deduplication process to present an estimate of total unique postings. Normalization of data fields is performed using machine-learning technologies, which leverage not just job postings data but also CareerBuilder's extensive database of résumés and profiles.

Hires Data

EMSI produces hires data using a proprietary methodology which incorporates data from the Quarterly Workforce indicators (QWI) and American Community Survey (ACS).

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: Kentucky Office of Employment and Training; Ohio Department of Job and Family Services, Labor Market Information Division