

# Program Overview

Environmental Science in 3 States

EMSI Q3 2015 Data Set

December 2015

## South Central Michigan Works!



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Hillsdale, Michigan 49242  
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# Parameters

## Programs

Code	Description
03.0104	Environmental Science

## Regions

Code	Description
18	Indiana
26	Michigan
39	Ohio

## Completions Year

2013

## Jobs Timeframe

2013 - 2020

## Datarun

2015.3 – QCEW Employees, Non-QCEW Employees, and Self-Employed

## Program Summary for Environmental Science

65

Regional Institutions

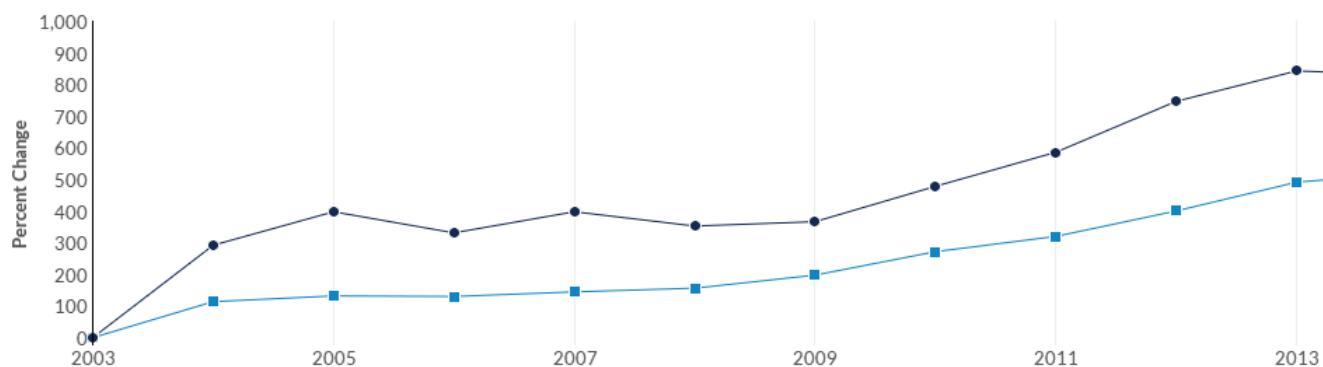
481

Regional Program Completions (2013)

478

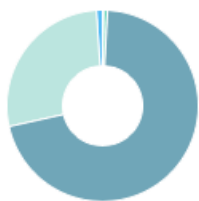
Annual Openings (2013)

## Regional Trends



Region	2003 Completions	2013 Completions	% Change
● Region	51	481	843.1%
■ Nation	1,163	6,879	491.5%

## Regional Completions by Award Level



Award Level	Completions (2013)	Percent
<span style="color: green;">●</span> Award of at least 1 but less than 2 academic years	1	0.2%
<span style="color: teal;">●</span> Associates degree	3	0.6%
<span style="color: blue;">●</span> Bachelors degree	340	70.7% <div style="width: 70.7%;"></div>
<span style="color: lightblue;">●</span> Masters degree	132	27.4% <div style="width: 27.4%;"></div>
<span style="color: blue;">●</span> Doctors degree	5	1.0%
Award of less than 1 academic year	0	0.0%
Award of at least 2 but less than 4 academic years	0	0.0%
Postbaccalaureate certificate	0	0.0%
Post-masters certificate	0	0.0%

## Regional Completions by Institution

Institution	Certificates (2013)	Degrees (2013)	Total Completions (2013)
Indiana University-Bloomington	0	92	92
Miami University-Oxford	0	48	48
Ohio State University-Main Campus	0	33	33
University of Michigan-Dearborn	0	26	26
University of Notre Dame	0	22	22
Cleveland State University	0	20	20
University of Toledo	0	18	18
University of Michigan-Flint	0	17	17
Goshen College	0	17	17
Taylor University	0	15	15
Central Michigan University	0	14	14
Northern Michigan University	0	12	12
Wayne State University	0	12	12
Youngstown State University	0	12	12
Michigan Technological University	0	11	11
Oakland University	0	8	8
Valparaiso University	0	8	8
Olivet College	0	7	7
John Carroll University	0	7	7
Xavier University	0	6	6
Heidelberg University	0	6	6
Ashland University	0	6	6
University of Saint Francis-Fort Wayne	0	5	5
Otterbein University	0	5	5
Marietta College	0	4	4
Indiana University-Purdue University-Indianapolis	0	4	4
Calvin College	0	4	4
Purdue University-Main Campus	0	4	4

Capital University Institution	Certificates (2013)	Degrees (2013)	Total Completions (2013)
Siena Heights University	0	3	3
University of Mount Union	0	3	3
Adrian College	0	3	3
DePauw University	0	3	3
University of Evansville	0	3	3
Cedarville University	0	2	2
Washtenaw Community College	0	2	2
Ohio Dominican University	0	2	2
Hanover College	0	2	2
Michigan State University	0	2	2
Grace College and Theological Seminary	0	2	2
Jackson College	1	0	1
Defiance College	0	1	1
Lake Superior State University	0	1	1
Keweenaw Bay Ojibwa Community College	0	1	1
Earlham College	0	1	1
Martin University	0	1	1
Aquinas College	0	1	1
University of Indianapolis	0	1	1
University of Dayton	0	0	0
Lake Erie College	0	0	0
Lourdes University	0	0	0
Ohio Northern University	0	0	0
Ohio State University Agricultural Technical Institute	0	0	0
Taylor University Graduate School	0	0	0
Grand Rapids Community College	0	0	0
Saint Josephs College	0	0	0
Delta College	0	0	0
Hope College	0	0	0
Lake Michigan College	0	0	0
Madonna University	0	0	0

Institution	Certificates (2013)	Degrees (2013)	Total Completions (2013)
Marquette College			0
Mid Michigan Community College	0	0	0
Andrews University	0	0	0
Trine University	0	0	0
Antioch College	0	0	0

## Similar Programs

4	503
Programs (2013)	Completions (2013)

CIP Code	Program	Completions (2013)
03.0103	Environmental Studies	404
41.9999	Science Technologies/Technicians, Other	96
40.0509	Environmental Chemistry	3
41.0399	Physical Science Technologies/Technicians, Other	0

## Target Occupations

<p><b>8,967</b></p> <p>Jobs (2015)</p> <p>22% <b>below</b> National average</p>	<p><b>+12.3%</b></p> <p>% Change (2013-2020)</p> <p>Nation: <b>+13.4%</b></p>	<p><b>\$26.66/hr</b></p> <p>Median Hourly Earnings</p> <p>Nation: \$28.74/hr</p>
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Occupation	2013 Jobs	Annual Openings	Median Hourly Earnings	Growth (2013 - 2020)	Location Quotient (2013)
Environmental Scientists and Specialists, Including Health	5,746	268	\$30.39/hr	<b>+10.29%</b>	0.72
Environmental Science and Protection Technicians, Including Health	2,860	193	\$19.30/hr	<b>+16.36%</b>	0.96



## Growth

8,606

2013 Jobs

9,666

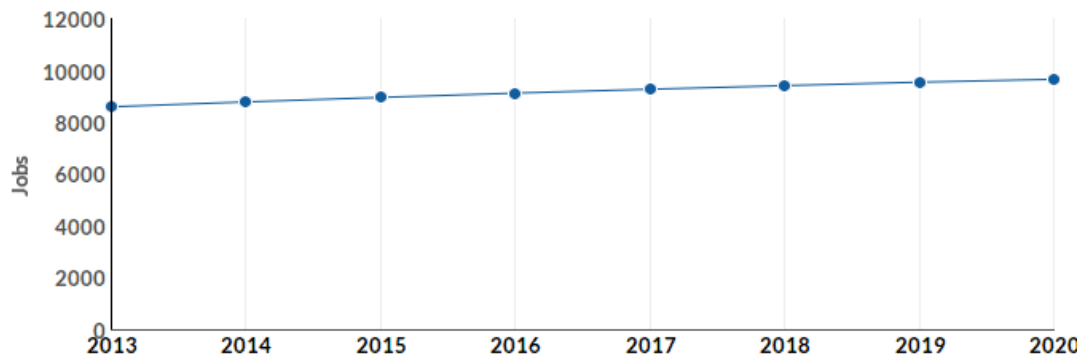
2020 Jobs

1,059

Change (2013-2020)

12.3%

% Change (2013-2020)



Occupation	2013 Jobs	2020 Jobs	Change	% Change
Environmental Scientists and Specialists, Including Health (19-2041)	5,746	6,337	591	10%
Environmental Science and Protection Technicians, Including Health (19-4091)	2,860	3,328	468	16%

## Percentile Earnings

**\$20.80/hr**

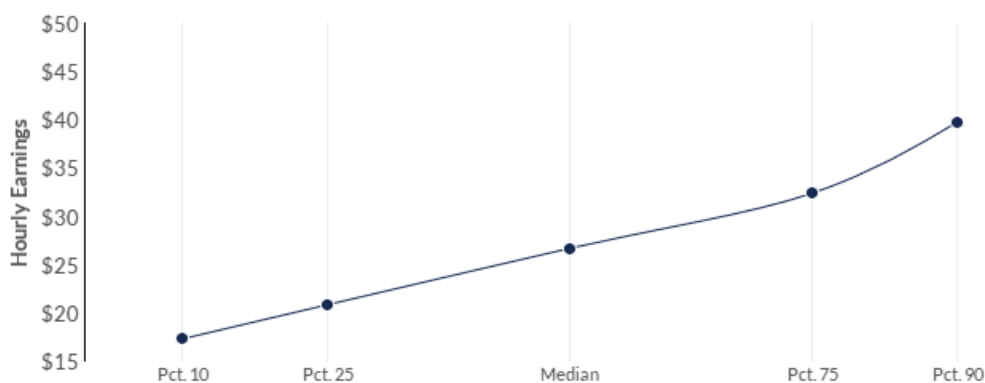
25th Percentile Earnings

**\$26.66/hr**

Median Earnings

**\$32.37/hr**

75th Percentile Earnings



Occupation	25th Percentile Earnings	Median Earnings	75th Percentile Earnings
Environmental Scientists and Specialists, Including Health (19-2041)	\$23.36	\$30.39	\$36.52
Environmental Science and Protection Technicians, Including Health (19-4091)	\$15.77	\$19.30	\$24.18

# Appendix A - Data Sources and Calculations

## 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.

## 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.

## 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.

## State Data Sources

This report uses state data from the following agencies: Indiana Department of Workforce Development; Michigan Department of Labor and Economic Growth, Bureau of Labor Market Information and Strategic Initiatives; Ohio Department of Job and Family Services, Labor Market Information Division