

## Monroe, MI

Advanced industries employ

**5,685**

full-time workers. (2015)

These direct jobs supports an additional

**4,550**

indirect jobs in other industries in the region.

Advanced industries produce

**\$1.2**

billion dollars in output in the region.  
(2015, 2009 Chained)

Advanced industries pay, on average

**\$100,841**

dollars per year (2015).

Advanced industries directly account for

**12.8%**

of all jobs in the region.

This employment share is

**#18**

among all small metros.

This accounts for

**29.1%**

of all output in the region (2015).

This compares to average pay of

**\$45,738**

for all industries (2015).

Advanced industry annual average growth, 2013-2015

**OUTPUT**

RANK:  
**#271**

**2.70%**

**JOBS**

RANK:  
**#60**

**4.04%**

**2.46%**

**-4.22%**

Monroe, MI

U.S.

Monroe, MI

U.S.

### What are Advanced Industries?

The Metropolitan Policy Program at Brookings defines advanced industries as those that: 1) Spend at least \$450 per worker per year on R&D and 2) employ at least 20 percent of their workforce in STEM-intensive occupations. The definition identifies 50 4-digit NAICS industries across the manufacturing, energy, and services sectors that together constitute the advanced industries super-sector.

### Why do Advanced Industries Matter?

Advanced industries encompass the nation's "tech" sector at its broadest and most consequential. They represent a sizable economic anchor for the U.S. economy and have led the post-recession employment recovery. Their competitiveness and growth are prerequisites for any future broadly shared prosperity. As such, the sector encompasses the country's best shot at supporting innovative, inclusive, and sustainable growth. Advanced industries are present in nearly every U.S. region, but the sector's geography is uneven.

### For More Information

#### VIEW THE FULL REPORT

[www.brookings.edu/advancedindustries](http://www.brookings.edu/advancedindustries)

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#### DATA NOTES

All figures reflect Brookings analysis of data from Moody's Analytics.

# Monroe, MI

## Twenty-Five Largest Advanced Industries (2015)

There are 11 advanced industries in Monroe, MI with LQs over 1.5. LQs over 1.5 indicate specialization †

Industry 4-Digit NAICS Code	Industry Title	Industry Employment (2015)	Industry Location Quotient (LQ) † 2015	Industry Share of Total Advanced Industries Employment (2015)	Industry Employment Annual Growth		Industry Share of Total Advanced Industries Output (2015)	Industry Output Annual Growth	
					2010-2013	2013-2015		2010-2013	2013-2015
2211	Power Generation & Supply	1,540	12.92	27.1%	-0.9%	1.2%	48.2%	-2.0%	-8.1%
3363	Motor Vehicle Parts	820	4.80	14.4%	15.0%	-6.0%	14.4%	20.8%	-10.7%
5413	Engineering	780	1.84	13.8%	7.3%	4.1%	8.6%	4.5%	12.7%
5416	Management Consulting	590	1.52	10.3%	51.3%	29.4%	6.0%	43.4%	28.9%
3339	General Purpose Machinery	250	3.13	4.4%	3.0%	12.2%	1.8%	4.8%	4.5%
3315	Foundries	230	6.26	4.1%	7.1%	3.1%	1.3%	10.9%	-2.6%
3279	Stone & Mineral Products	220	9.94	3.9%	-1.7%	-1.1%	2.2%	-4.1%	-7.2%
3332	Industrial Machinery	180	5.30	3.2%	-1.3%	8.1%	1.5%	0.2%	4.0%
3313	Aluminum Products	180	9.85	3.1%	5.6%	3.3%	1.9%	18.5%	9.9%
5417	R&D Services	170	0.83	2.9%	6.9%	9.3%	2.7%	6.3%	19.7%
3361	Motor Vehicles	150	2.42	2.6%	8.5%	-6.3%	3.8%	14.9%	-13.0%
3311	Iron & Steel Products	120	4.62	2.2%	6.4%	2.9%	2.3%	14.0%	-8.9%
5415	Computer Systems Design	60	0.10	1.0%	1.9%	0.0%	0.6%	2.5%	7.3%
3362	Motor Vehicle Body & Trailers	50	1.10	0.9%	34.5%	-5.5%	0.7%	29.2%	-6.0%
5182	Data Processing & Hosting	50	0.52	0.8%	28.6%	66.3%	0.1%	31.7%	17.4%
6215	Medical and Diagnostic Laboratories	50	0.59	0.8%	0.8%	1.1%	0.3%	2.0%	-9.1%
5172	Wireless Telecom Carriers	30	0.84	0.6%	22.4%	75.8%	0.1%	25.7%	14.0%
3344	Semiconductors	30	0.24	0.5%	2.9%	6.1%	0.2%	6.0%	4.8%
5152	Cable and Other Subscription Programming	30	1.34	0.4%	31.0%	66.7%	0.2%	36.4%	2.6%
3391	Medical Equipment & Supplies	20	0.17	0.3%	22.4%	20.6%	0.2%	15.5%	26.1%
3271	Clay Product and Refractory Manufacturing	20	1.26	0.3%	0.0%	0.0%	0.2%	3.6%	-9.8%
3254	Pharmaceuticals	10	0.17	0.2%	9.1%	3.8%	0.2%	7.8%	0.3%
3331	Agri., Constr., Mining Machinery	10	0.18	0.2%	0.0%	8.7%	0.1%	-1.9%	-3.8%
3364	Aircraft Products & Parts	10	0.09	0.2%	28.9%	-6.9%	0.3%	32.3%	-4.2%
5112	Software Products	10	0.12	0.2%	18.6%	54.9%	0.4%	28.7%	3.0%
IFG	Advanced industries manufacturing	2,360	1.40	41.5%	8.1%	-0.3%	31.9%	14.1%	-7.3%
	Advanced industries energy	1,560	8.21	27.4%	-0.9%	1.2%	48.8%	-2.0%	-8.0%
	Advanced industries services	1,770	0.88	31.1%	14.1%	14.1%	19.3%	12.2%	16.8%
<b>ADVANCED INDUSTRIES TOTAL</b>		<b>5,690</b>	<b>1.46</b>	<b>100.0%</b>	<b>6.4%</b>	<b>4.0%</b>	<b>100.0%</b>	<b>4.2%</b>	<b>-4.2%</b>

† Location quotients are a measure of specialization for an industry using employment. A LQ of over 1 indicates that an industry employs more workers, as a share of total employment, than the nation as a whole.