

Muskegon, MI

Advanced industries employ

7,300

full-time workers. (2013)

These direct jobs supports an additional

5,840

indirect jobs in other industries in the region.

Advanced industries produce

\$1.2

billion dollars in output in the region.
(2013, 2005 Chained)

Advanced industries pay, on average

\$65,820

dollars per year (2013).

Advanced industries directly account for

11.6%

of all jobs in the region.

This employment share is

#27

among all small metros.

This accounts for

22.0%

of all output in the region (2013).

This compares to average pay of

\$39,400

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

5.7%

2.7%

Muskegon, MI

U.S.

OUTPUT

6.4%

3.8%

Muskegon, 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

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www.brookings.edu/advancedindustries

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DATA NOTES

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

Muskegon, MI

Twenty-Five Largest Advanced Industries (2013)

Industry 4-Digit NAICS Code	Industry Title	Industry Employment (2013)	Industry Location Quotient (LQ) † 2013	Industry Share of Total Advanced Industries Employment (2013)	Industry Employment Annual Growth 2010-2013	Industry Share of Total Advanced Industries Output (2013)	Industry Output Annual Growth 2010-2013
3315	Foundries	3,330	60.07	45.6%	7.1%	33.5%	11.2%
3251	Basic Chemicals	1,050	16.54	14.4%	10.7%	12.9%	5.1%
3363	Motor Vehicle Parts	860	3.79	11.7%	10.7%	16.3%	10.5%
2211	Power Generation & Supply	260	1.51	3.6%	3.5%	10.5%	3.3%
3399	Misc. Manufacturing	200	1.66	2.8%	1.0%	2.2%	0.5%
3331	Agri., Constr., Mining Machinery	200	1.80	2.7%	4.8%	2.0%	6.5%
5413	Architecture & Engineering	170	0.28	2.3%	0.4%	1.6%	-1.9%
5417	R&D Services	130	0.47	1.8%	-1.7%	1.8%	-1.8%
3336	Engine & Power Equipment	110	2.40	1.5%	5.1%	1.2%	7.7%
3339	General Purpose Machinery	100	0.84	1.3%	-12.5%	0.8%	-8.9%
3254	Pharmaceuticals	90	0.76	1.3%	-24.0%	2.7%	-15.0%
3313	Aluminum Products	90	3.42	1.2%	9.9%	1.8%	23.6%
5415	Computer Systems Design	90	0.12	1.2%	9.4%	1.1%	7.7%
3259	Misc. Chemicals	70	2.01	1.0%	11.8%	1.8%	35.0%
3332	Industrial Machinery	70	1.38	0.9%	1.0%	0.6%	4.5%
3252	Resins & Synthetic Rubbers	60	1.44	0.8%	-18.3%	1.9%	-11.3%
3359	Misc. Electrical Equipment	50	0.90	0.7%	0.0%	0.6%	-5.9%
3333	Commercial & Service Machinery	50	1.22	0.6%	9.3%	0.5%	9.7%
5416	Management Consulting	30	0.06	0.4%	6.5%	0.3%	0.7%
3241	Petroleum & Coal Products	30	0.50	0.3%	9.6%	1.0%	32.9%
3344	Semiconductors	30	0.15	0.3%	6.0%	0.2%	3.5%
3352	Household Appliances	30	0.97	0.3%	6.0%	0.5%	-11.8%
5179	Other telecommunications	20	0.64	0.3%	1.4%	0.4%	-3.2%
3361	Motor Vehicles	20	0.28	0.3%	3.1%	0.7%	6.1%
5172	Wireless Telecom Carriers	20	0.32	0.3%	1.6%	0.2%	5.3%
Advanced industries manufacturing		6,530	2.70	89.5%	6.1%	82.6%	7.4%
Advanced industries energy		280	0.99	3.8%	3.3%	11.2%	3.4%
Advanced industries services		490	0.18	6.7%	1.8%	6.2%	0.4%
ADVANCED INDUSTRIES TOTAL		7,300	1.34	100.0%	5.7%	100.0%	6.4%

† 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.