

Michigan

Advanced industries employ

495,530

full-time workers. (2013)

These direct jobs supports an additional

396,420

indirect jobs in other industries in
the region.

Advanced industries produce

\$89.1

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

Advanced industries pay, on average

\$78,440

dollars per year (2013).

Advanced industries directly

account for

11.8%

of all jobs in the region.

This employment share is

#1

among all states.

This accounts for

21.8%

of all output in the region (2013).

This compares to average pay of

\$46,400

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

6.3%

2.7%

Michigan

U.S.

OUTPUT

5.6%

3.8%

Michigan

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.

Michigan

Twenty-Five Largest Advanced Industries (2013)

There are 10 advanced industries in Michigan with LQs over 1.5. LQs over 1.5 indicate specialization †

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
3363	Motor Vehicle Parts	110,060	7.29	22.2%	8.9%	25.4%	7.8%
5413	Architecture & Engineering	72,880	1.83	14.7%	8.1%	9.2%	6.6%
3361	Motor Vehicles	44,100	7.96	8.9%	7.8%	15.2%	7.8%
5415	Computer Systems Design	43,630	0.86	8.8%	4.9%	6.8%	4.0%
5416	Management Consulting	27,490	0.78	5.5%	9.5%	3.6%	6.5%
5417	R&D Services	21,110	1.12	4.3%	3.9%	3.6%	4.7%
2211	Power Generation & Supply	16,370	1.40	3.3%	-0.2%	8.8%	0.6%
3339	General Purpose Machinery	14,500	1.91	2.9%	8.3%	1.8%	11.1%
3391	Medical Equipment & Supplies	11,680	1.29	2.4%	2.9%	2.0%	3.8%
3315	Foundries	10,120	2.72	2.0%	5.3%	1.3%	9.1%
3254	Pharmaceuticals	8,760	1.07	1.8%	4.1%	2.1%	1.5%
3345	Precision Instruments	8,550	0.73	1.7%	3.2%	0.9%	1.1%
3344	Semiconductors	7,430	0.67	1.5%	3.7%	0.7%	2.9%
3399	Misc. Manufacturing	7,340	0.90	1.5%	1.9%	0.9%	3.3%
3252	Resins & Synthetic Rubbers	7,000	2.55	1.4%	2.6%	1.3%	-1.1%
3362	Motor Vehicle Body & Trailers	6,820	1.70	1.4%	2.0%	1.3%	-1.4%
3311	Iron & Steel Products	6,000	2.22	1.2%	5.8%	1.1%	11.7%
5112	Software Products	5,860	0.66	1.2%	5.6%	2.7%	7.5%
3332	Industrial Machinery	5,600	1.77	1.1%	7.7%	0.8%	9.8%
3352	Household Appliances	5,460	3.17	1.1%	2.2%	1.0%	-5.0%
5182	Data Processing & Hosting	4,590	0.58	0.9%	8.9%	0.7%	9.0%
6215	Medical and Diagnostic Laboratories	4,470	0.61	0.9%	2.9%	0.4%	3.3%
3336	Engine & Power Equipment	4,100	1.36	0.8%	2.8%	0.6%	5.6%
3364	Aircraft Products & Parts	3,960	0.27	0.8%	9.6%	0.5%	8.2%
3259	Misc. Chemicals	3,480	1.41	0.7%	5.7%	0.5%	1.7%
Advanced industries manufacturing		288,490	1.78	58.2%	6.6%	61.8%	6.4%
Advanced industries energy		18,490	0.98	3.7%	0.0%	9.5%	1.0%
Advanced industries services		188,560	1.03	38.1%	6.5%	28.7%	5.4%
ADVANCED INDUSTRIES TOTAL		495,530	1.36	100.0%	6.3%	100.0%	5.6%

† 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.