

Ann Arbor, MI

Advanced industries employ

23,440

full-time workers. (2013)

These direct jobs supports an additional

18,750

indirect jobs in other industries in the region.

Advanced industries produce

\$3.9

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

Advanced industries pay, on average

\$80,300

dollars per year (2013).

Advanced industries directly account for

11.2%

of all jobs in the region.

This employment share is

#32

among all small metros.

This accounts for

19.6%

of all output in the region (2013).

This compares to average pay of

\$47,480

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

OUTPUT

2.4%

2.7%

3.8%

1.0%

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U.S.

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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.

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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
5413	Architecture & Engineering	3,910	1.97	16.7%	4.2%	10.3%	3.0%
3363	Motor Vehicle Parts	3,590	4.78	15.3%	-6.8%	20.0%	-6.9%
5417	R&D Services	3,180	3.40	13.6%	2.6%	12.2%	3.7%
5415	Computer Systems Design	2,510	1.00	10.7%	12.2%	8.4%	11.8%
5416	Management Consulting	2,220	1.27	9.5%	5.0%	6.3%	-0.1%
5112	Software Products	1,560	3.55	6.7%	0.9%	14.7%	5.2%
3391	Medical Equipment & Supplies	1,020	2.26	4.3%	6.2%	3.8%	4.8%
5191	Web Search Portals and Internet Publishing	970	3.36	4.2%	12.9%	4.4%	13.7%
3345	Precision Instruments	540	0.93	2.3%	7.7%	1.2%	6.2%
3399	Misc. Manufacturing	460	1.13	1.9%	5.2%	1.2%	6.4%
3361	Motor Vehicles	460	1.65	1.9%	-11.5%	3.9%	-9.5%
3344	Semiconductors	450	0.82	1.9%	15.2%	1.0%	13.5%
2211	Power Generation & Supply	380	0.65	1.6%	-3.1%	4.6%	-3.3%
5182	Data Processing & Hosting	280	0.70	1.2%	-6.3%	0.5%	-3.3%
3259	Misc. Chemicals	250	2.06	1.1%	-0.1%	1.2%	3.0%
3339	General Purpose Machinery	250	0.66	1.1%	6.7%	0.6%	11.6%
3254	Pharmaceuticals	230	0.55	1.0%	6.0%	1.3%	1.4%
3333	Commercial & Service Machinery	160	1.21	0.7%	-9.6%	0.5%	-9.1%
3362	Motor Vehicle Body & Trailers	150	0.76	0.6%	9.7%	0.5%	3.0%
6215	Medical and Diagnostic Laboratories	140	0.39	0.6%	3.8%	0.4%	4.1%
5179	Other telecommunications	100	0.83	0.4%	-1.3%	0.6%	-4.5%
3332	Industrial Machinery	90	0.59	0.4%	-1.1%	0.3%	3.1%
3341	Computer Equipment	60	0.27	0.3%	-5.3%	0.2%	-11.9%
3251	Basic Chemicals	60	0.28	0.3%	-0.5%	0.1%	-19.2%
3352	Household Appliances	60	0.69	0.3%	70.0%	0.3%	47.2%
Advanced industries manufacturing		8,120	1.01	34.6%	-1.5%	37.2%	-3.7%
Advanced industries energy		380	0.41	1.6%	-3.1%	4.7%	-3.3%
Advanced industries services		14,940	1.63	63.7%	4.9%	58.1%	5.0%
ADVANCED INDUSTRIES TOTAL		23,440	1.29	100.0%	2.4%	100.0%	1.0%

† 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.