

Youngstown, OH-PA

Advanced industries employ

17,070

full-time workers. (2013)

These direct jobs supports an additional

13,660

indirect jobs in other industries in
the region.

Advanced industries produce

\$2.9

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

Advanced industries pay, on average

\$66,070

dollars per year (2013).

Advanced industries directly

account for

7.4%

of all jobs in the region.

This employment share is

#65

among all large metros.

This accounts for

14.1%

of all output in the region (2013).

This compares to average pay of

\$37,820

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

0.8%

2.7%

Youngstown, OH-PA

U.S.

OUTPUT

0.5%

3.8%

Youngstown, OH-PA

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.

Youngstown, OH-PA

Twenty-Five Largest Advanced Industries (2013)

There are 13 advanced industries in Youngstown, OH-PA 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
3361	Motor Vehicles	2,110	7.00	12.4%	-0.3%	11.2%	9.0%
3363	Motor Vehicle Parts	1,930	2.35	11.3%	3.9%	7.1%	13.2%
3313	Aluminum Products	1,380	14.57	8.1%	10.7%	5.6%	13.3%
3311	Iron & Steel Products	1,150	7.81	6.8%	-14.6%	6.0%	-3.6%
3339	General Purpose Machinery	980	2.38	5.8%	5.5%	3.9%	9.7%
5413	Architecture & Engineering	730	0.34	4.3%	-1.9%	3.1%	-2.8%
5416	Management Consulting	680	0.36	4.0%	11.3%	3.2%	8.6%
5415	Computer Systems Design	660	0.24	3.9%	-3.7%	3.7%	-2.1%
3365	Railroad Rolling Stock Manufacturing	650	16.57	3.8%	38.9%	2.8%	37.8%
3362	Motor Vehicle Body & Trailers	570	2.59	3.3%	6.8%	1.7%	18.7%
3364	Aircraft Products & Parts	560	0.69	3.3%	5.7%	8.8%	12.3%
3315	Foundries	460	2.28	2.7%	3.8%	1.4%	10.8%
3271	Clay Product and Refractory Manufacturing	420	6.64	2.4%	1.6%	1.8%	6.3%
2211	Power Generation & Supply	380	0.59	2.2%	-4.3%	9.6%	5.0%
3391	Medical Equipment & Supplies	380	0.76	2.2%	6.5%	1.3%	3.7%
3241	Petroleum & Coal Products	360	2.00	2.1%	-16.2%	8.7%	-25.3%
2111	Oil & Gas Extraction	350	1.10	2.1%	4.6%	4.2%	13.1%
3353	Electrical Equipment	320	1.39	1.9%	3.5%	1.6%	0.3%
6215	Medical and Diagnostic Laboratories	300	0.76	1.8%	-8.0%	0.9%	-6.7%
3332	Industrial Machinery	280	1.60	1.6%	3.5%	1.3%	8.2%
3333	Commercial & Service Machinery	260	1.87	1.5%	4.6%	1.0%	3.9%
3359	Misc. Electrical Equipment	260	1.25	1.5%	-5.5%	1.4%	-7.8%
3344	Semiconductors	220	0.36	1.3%	-0.9%	0.7%	-2.2%
3399	Misc. Manufacturing	210	0.48	1.3%	1.8%	0.6%	2.9%
5182	Data Processing & Hosting	200	0.46	1.2%	6.3%	0.9%	9.6%
Advanced industries manufacturing		13,350	1.51	78.2%	1.2%	71.3%	-0.1%
Advanced industries energy		750	0.73	4.4%	-0.2%	14.2%	7.3%
Advanced industries services		2,970	0.30	17.4%	-0.9%	14.5%	-2.2%
ADVANCED INDUSTRIES TOTAL		17,070	0.86	100.0%	0.8%	100.0%	0.5%

† 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.