

Youngstown, OH-PA

Advanced industries employ

17,373

full-time workers. (2015)

These direct jobs supports an additional

13,900

indirect jobs in other industries in the region.

Advanced industries produce

\$2.9

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

Advanced industries pay, on average

\$66,759

dollars per year (2015).

Advanced industries directly account for

7.5%

of all jobs in the region.

This employment share is

#64

among all large metros.

This accounts for

14.3%

of all output in the region (2015).

This compares to average pay of

\$39,201

for all industries (2015).

Advanced industry annual average growth, 2013-2015

OUTPUT

JOBS



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

SEE THE INTERACTIVE

www.brookings.edu/advancedindustries

FOLLOW US ON TWITTER

@BrookingsMetro | @MarkMuro1 | #AdvIndustries

DATA NOTES

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

Youngstown, OH-PA

Twenty-Five Largest Advanced Industries (2015)

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 (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
3361	Motor Vehicles	2,010	6.24	11.6%	-0.6%	-2.2%	10.3%	5.9%	-7.6%
3363	Motor Vehicle Parts	1,890	2.14	10.9%	3.8%	-0.8%	8.3%	10.4%	1.9%
3313	Aluminum Products	1,550	16.56	8.9%	12.5%	5.7%	5.0%	13.0%	-5.5%
3365	Railroad Rolling Stock Manufacturing	1,070	23.99	6.2%	38.3%	28.7%	4.5%	45.9%	31.4%
3339	General Purpose Machinery	1,040	2.49	6.0%	6.6%	1.5%	3.8%	9.8%	-1.1%
3311	Iron & Steel Products	1,000	7.20	5.8%	-15.5%	-6.6%	4.3%	-5.5%	-10.9%
5413	Engineering	840	0.38	4.8%	-1.9%	7.1%	3.4%	-3.3%	5.3%
3315	Foundries	790	4.06	4.5%	2.4%	31.6%	1.5%	10.5%	6.6%
5416	Management Consulting	640	0.32	3.7%	11.3%	-3.4%	3.4%	8.3%	3.3%
3362	Motor Vehicle Body & Trailers	630	2.69	3.6%	6.7%	3.7%	2.2%	12.3%	6.2%
3364	Aircraft Products & Parts	610	0.80	3.5%	5.3%	5.0%	6.6%	18.6%	7.8%
5415	Computer Systems Design	540	0.18	3.1%	-3.7%	-9.2%	2.9%	-5.3%	-1.6%
3271	Clay Product and Refractory Manufacturing	420	6.72	2.4%	1.4%	-0.1%	1.6%	8.3%	-4.3%
2211	Power Generation & Supply	410	0.67	2.4%	-4.7%	4.9%	7.4%	1.5%	-5.1%
3241	Petroleum & Coal Products	380	2.22	2.2%	-16.2%	2.0%	10.4%	-24.9%	9.9%
3353	Electrical Equipment	360	1.61	2.1%	3.2%	0.3%	1.6%	-1.3%	-2.0%
3391	Medical Equipment & Supplies	290	0.61	1.7%	5.5%	-10.4%	1.0%	-1.8%	-6.7%
3332	Industrial Machinery	270	1.53	1.6%	3.0%	0.0%	1.3%	6.1%	5.3%
3333	Commercial & Service Machinery	270	1.94	1.6%	4.0%	1.9%	1.0%	2.4%	0.2%
2111	Oil & Gas Extraction	270	0.89	1.5%	-2.7%	-2.3%	7.7%	22.9%	17.2%
5182	Data Processing & Hosting	240	0.51	1.4%	7.6%	13.0%	1.1%	7.8%	21.1%
3359	Misc. Electrical Equipment	220	1.09	1.3%	-5.7%	-11.6%	1.0%	-10.9%	-13.9%
3399	Misc. Manufacturing	220	0.50	1.3%	3.2%	-0.7%	0.6%	-3.5%	14.2%
6215	Medical and Diagnostic Laboratories	190	0.47	1.1%	-8.4%	-6.6%	0.8%	-6.2%	-5.5%
3344	Semiconductors	180	0.32	1.0%	-1.5%	-7.8%	0.8%	3.3%	-3.0%
IFG	Advanced industries manufacturing	13,910	1.59	80.1%	1.1%	2.1%	69.6%	-0.8%	0.6%
	Advanced industries energy	700	0.71	4.0%	-3.4%	1.1%	15.3%	8.2%	4.2%
	Advanced industries services	2,760	0.26	15.9%	-2.0%	-2.7%	15.0%	-2.0%	2.4%
	ADVANCED INDUSTRIES TOTAL	17,370	0.86	100.0%	0.3%	1.3%	100.0%	0.1%	1.4%

† 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.