

Altoona, PA

Advanced industries employ

3,450

full-time workers. (2013)

These direct jobs supports an additional

2,760

indirect jobs in other industries in
the region.

Advanced industries produce

\$0.7

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

Advanced industries pay, on average

\$49,140

dollars per year (2013).

Advanced industries directly
account for

5.6%

of all jobs in the region.

This employment share is

#160

among all small metros.

This accounts for

11.9%

of all output in the region (2013).

This compares to average pay of

\$37,470

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

2.7%

OUTPUT

3.8%

0.2%

0.5%

Altoona, PA

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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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	430	0.74	12.6%	-0.1%	9.0%	1.2%
5415	Computer Systems Design	340	0.45	9.7%	-10.2%	9.2%	-8.5%
3399	Misc. Manufacturing	330	2.77	9.6%	0.3%	6.1%	2.0%
3362	Motor Vehicle Body & Trailers	290	4.88	8.3%	7.2%	3.2%	25.7%
3254	Pharmaceuticals	280	2.36	8.2%	-2.5%	16.9%	-6.6%
3332	Industrial Machinery	210	4.49	6.0%	3.4%	3.6%	7.3%
2211	Power Generation & Supply	200	1.14	5.6%	5.3%	15.5%	4.6%
3365	Railroad Rolling Stock Manufacturing	150	13.77	4.2%	13.9%	3.3%	16.1%
5416	Management Consulting	120	0.22	3.4%	-1.9%	2.6%	-1.8%
3345	Precision Instruments	90	0.54	2.7%	-2.1%	1.8%	-0.3%
3359	Misc. Electrical Equipment	90	1.59	2.5%	-1.8%	1.5%	-4.2%
3344	Semiconductors	80	0.49	2.3%	-2.4%	1.7%	-0.7%
3364	Aircraft Products & Parts	70	0.34	2.1%	14.0%	3.4%	10.0%
3363	Motor Vehicle Parts	70	0.30	1.9%	16.8%	1.4%	31.4%
3252	Resins & Synthetic Rubbers	50	1.29	1.5%	-4.1%	1.5%	-7.9%
5191	Web Search Portals and Internet Publishing	50	0.61	1.5%	-1.9%	0.7%	3.8%
2111	Oil & Gas Extraction	50	0.59	1.5%	0.7%	4.0%	22.4%
3313	Aluminum Products	50	1.95	1.4%	-1.3%	1.3%	9.8%
3331	Agri., Constr., Mining Machinery	50	0.45	1.4%	2.9%	0.9%	-0.3%
3391	Medical Equipment & Supplies	40	0.29	1.1%	2.7%	1.0%	0.5%
5112	Software Products	40	0.28	1.1%	-0.9%	2.3%	-3.2%
3279	Stone & Mineral Products	40	1.19	1.0%	-5.0%	0.5%	-8.7%
3369	Misc. Transportation Equipment	40	2.59	1.0%	11.5%	0.7%	5.3%
3342	Communications Equipment	30	0.76	1.0%	-2.9%	0.6%	-1.3%
3241	Petroleum & Coal Products	30	0.61	0.9%	-1.1%	0.5%	-19.1%
Advanced industries manufacturing		2,160	0.91	62.4%	1.9%	53.4%	0.2%
Advanced industries energy		250	0.89	7.1%	4.3%	19.6%	7.5%
Advanced industries services		1,050	0.39	30.5%	-3.7%	27.1%	-2.9%
ADVANCED INDUSTRIES TOTAL		3,450	0.65	100.0%	0.2%	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.