

State College, PA

Advanced industries employ

5,360

full-time workers. (2013)

These direct jobs supports an additional

4,290

indirect jobs in other industries in
the region.

Advanced industries produce

\$1.0

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

Advanced industries pay, on average

\$74,240

dollars per year (2013).

Advanced industries directly
account for

6.9%

of all jobs in the region.

This employment share is

#103

among all small metros.

This accounts for

12.4%

of all output in the region (2013).

This compares to average pay of

\$42,960

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

1.5%

2.7%

OUTPUT

1.8%

3.8%

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U.S.

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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.

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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
3345	Precision Instruments	960	4.47	17.9%	4.1%	13.9%	6.2%
5413	Architecture & Engineering	760	1.03	14.1%	3.2%	10.7%	3.4%
5415	Computer Systems Design	670	0.72	12.4%	-4.0%	12.6%	-3.3%
5112	Software Products	500	3.10	9.4%	-0.1%	13.1%	1.2%
3344	Semiconductors	490	2.40	9.1%	4.5%	7.5%	6.1%
5417	R&D Services	360	1.05	6.8%	7.9%	7.1%	9.9%
5416	Management Consulting	320	0.49	5.9%	-4.2%	4.9%	-5.0%
3342	Communications Equipment	280	5.12	5.2%	3.7%	3.8%	4.6%
2111	Oil & Gas Extraction	90	0.86	1.7%	15.1%	5.3%	40.1%
3391	Medical Equipment & Supplies	90	0.51	1.6%	-6.5%	1.3%	-6.1%
5179	Other telecommunications	80	1.72	1.5%	-12.0%	5.8%	-15.7%
2211	Power Generation & Supply	80	0.35	1.4%	-3.3%	4.4%	-3.7%
5191	Web Search Portals and Internet Publishing	70	0.64	1.3%	4.8%	0.7%	10.4%
3331	Agri., Constr., Mining Machinery	60	0.41	1.0%	28.4%	0.8%	26.8%
3364	Aircraft Products & Parts	50	0.20	1.0%	1.3%	1.2%	3.6%
5152	Cable and Other Subscription Programming	50	1.23	0.9%	-0.7%	1.0%	15.5%
3333	Commercial & Service Machinery	50	0.97	0.9%	26.0%	0.5%	25.4%
3271	Clay Product and Refractory Manufacturing	50	2.12	0.8%	0.0%	0.4%	-1.4%
5182	Data Processing & Hosting	40	0.30	0.8%	-4.9%	0.6%	-4.8%
6215	Medical and Diagnostic Laboratories	30	0.25	0.6%	-15.1%	0.3%	-15.5%
3339	General Purpose Machinery	30	0.22	0.6%	28.9%	0.3%	34.8%
3359	Misc. Electrical Equipment	30	0.44	0.6%	-13.9%	0.4%	-16.0%
3399	Misc. Manufacturing	30	0.17	0.5%	-6.7%	0.3%	-2.1%
3369	Misc. Transportation Equipment	30	1.44	0.5%	-2.5%	0.2%	-1.0%
3362	Motor Vehicle Body & Trailers	20	0.31	0.4%	1.5%	0.1%	26.9%
Advanced industries manufacturing		2,310	0.78	43.1%	4.0%	33.5%	5.4%
Advanced industries energy		170	0.49	3.1%	5.3%	9.7%	12.2%
Advanced industries services		2,880	0.85	53.7%	-0.5%	56.8%	-1.5%
ADVANCED INDUSTRIES TOTAL		5,360	0.80	100.0%	1.5%	100.0%	1.8%

† 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.