

Beckley, WV

Advanced industries employ

2,250

full-time workers. (2013)

These direct jobs supports an additional

1,800

indirect jobs in other industries in the region.

Advanced industries produce

\$0.3

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

Advanced industries pay, on average

\$57,130

dollars per year (2013).

Advanced industries directly account for

4.1%

of all jobs in the region.

This employment share is

#216

among all small metros.

This accounts for

6.6%

of all output in the region (2013).

This compares to average pay of

\$33,920

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

2.7%

1.7%

OUTPUT

3.8%

-0.9%

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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	620	1.21	27.8%	0.5%	18.8%	-1.7%
5416	Management Consulting	350	0.78	15.8%	11.1%	12.9%	7.9%
2211	Power Generation & Supply	140	0.94	6.4%	-5.4%	8.5%	-19.6%
3339	General Purpose Machinery	120	1.22	5.3%	15.0%	2.6%	15.4%
5415	Computer Systems Design	110	0.17	5.0%	-4.4%	5.7%	1.1%
3251	Basic Chemicals	80	1.38	3.4%	-1.3%	7.2%	-5.4%
5417	R&D Services	70	0.30	3.2%	-2.2%	2.5%	3.1%
3353	Electrical Equipment	70	1.20	2.9%	2.1%	2.4%	-3.7%
6215	Medical and Diagnostic Laboratories	50	0.56	2.4%	2.0%	0.9%	-1.5%
3254	Pharmaceuticals	50	0.48	2.3%	0.0%	5.6%	-1.0%
3252	Resins & Synthetic Rubbers	50	1.35	2.1%	-1.4%	6.6%	4.3%
5182	Data Processing & Hosting	40	0.43	2.0%	-5.4%	1.7%	2.9%
3363	Motor Vehicle Parts	40	0.21	1.9%	0.8%	1.5%	12.8%
3311	Iron & Steel Products	40	1.06	1.6%	-0.9%	1.9%	24.7%
3253	Pesticides & Fertilizers	40	2.43	1.6%	-0.9%	2.7%	-3.0%
3331	Agri., Constr., Mining Machinery	40	0.37	1.6%	11.9%	0.5%	15.4%
3364	Aircraft Products & Parts	40	0.18	1.6%	1.0%	2.5%	-3.7%
3345	Precision Instruments	30	0.23	1.5%	1.0%	1.1%	1.3%
2111	Oil & Gas Extraction	30	0.43	1.5%	-3.7%	4.4%	22.1%
3313	Aluminum Products	30	1.42	1.4%	-1.0%	1.2%	20.1%
5172	Wireless Telecom Carriers	30	0.46	1.2%	-5.5%	0.7%	-12.7%
3333	Commercial & Service Machinery	30	0.75	1.1%	27.7%	1.0%	25.9%
3259	Misc. Chemicals	20	0.75	1.1%	2.9%	1.1%	-8.3%
3241	Petroleum & Coal Products	20	0.51	1.0%	-2.9%	0.7%	-16.9%
3359	Misc. Electrical Equipment	20	0.37	0.8%	0.0%	0.2%	-14.9%
Advanced industries manufacturing		770	0.37	34.3%	3.0%	42.4%	1.2%
Advanced industries energy		180	0.72	7.8%	-5.1%	12.9%	-11.7%
Advanced industries services		1,300	0.55	57.8%	2.0%	44.7%	1.2%
ADVANCED INDUSTRIES TOTAL		2,250	0.48	100.0%	1.7%	100.0%	-0.9%

† 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.