

Charleston, WV

Advanced industries employ

6,020

full-time workers. (2013)

These direct jobs supports an additional

4,820

indirect jobs in other industries in the region.

Advanced industries produce

\$1.2

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

Advanced industries pay, on average

\$84,600

dollars per year (2013).

Advanced industries directly account for

4.9%

of all jobs in the region.

This employment share is

#189

among all small metros.

This accounts for

10.6%

of all output in the region (2013).

This compares to average pay of

\$43,180

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

2.7%

0.3%

Charleston, WV

U.S.

OUTPUT

3.8%

-0.8%

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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
3251	Basic Chemicals	1,090	8.75	18.1%	-5.9%	27.5%	-8.8%
5413	Architecture & Engineering	1,050	0.90	17.5%	0.1%	8.5%	-2.4%
3363	Motor Vehicle Parts	630	1.41	10.4%	33.6%	10.1%	38.7%
5416	Management Consulting	570	0.55	9.4%	13.2%	5.6%	9.4%
2211	Power Generation & Supply	410	1.20	6.8%	-3.5%	6.7%	-18.1%
5415	Computer Systems Design	390	0.27	6.5%	0.5%	5.4%	6.1%
2111	Oil & Gas Extraction	350	2.04	5.8%	-10.0%	12.6%	13.5%
5417	R&D Services	280	0.50	4.6%	2.7%	2.5%	7.8%
6215	Medical and Diagnostic Laboratories	270	1.25	4.5%	-7.8%	1.2%	-10.8%
3254	Pharmaceuticals	180	0.74	3.0%	-7.9%	5.3%	-7.0%
3252	Resins & Synthetic Rubbers	140	1.74	2.3%	13.0%	5.1%	20.7%
3253	Pesticides & Fertilizers	120	3.74	2.0%	-7.9%	2.5%	-8.9%
3391	Medical Equipment & Supplies	80	0.28	1.2%	-2.9%	1.2%	-6.6%
3344	Semiconductors	70	0.21	1.1%	-6.0%	0.5%	-5.8%
3241	Petroleum & Coal Products	50	0.52	0.8%	0.7%	0.4%	-15.0%
3331	Agri., Constr., Mining Machinery	50	0.22	0.8%	23.4%	0.1%	38.3%
5182	Data Processing & Hosting	50	0.20	0.8%	10.6%	0.5%	20.7%
3259	Misc. Chemicals	30	0.37	0.4%	-15.7%	0.3%	-23.7%
3279	Stone & Mineral Products	20	0.33	0.3%	-1.6%	0.2%	3.7%
2122	Metal Ore Mining	20	0.49	0.3%	-1.7%	0.8%	7.5%
3311	Iron & Steel Products	20	0.19	0.2%	0.0%	0.2%	23.9%
3333	Commercial & Service Machinery	20	0.20	0.2%	18.6%	0.1%	23.3%
3336	Engine & Power Equipment	20	0.17	0.2%	4.9%	0.4%	19.3%
3359	Misc. Electrical Equipment	20	0.14	0.2%	0.0%	0.1%	-13.6%
3364	Aircraft Products & Parts	20	0.03	0.2%	28.9%	0.5%	18.5%
Advanced industries manufacturing		2,600	0.55	43.1%	1.4%	55.5%	-1.6%
Advanced industries energy		780	1.41	13.0%	-6.6%	20.1%	-2.2%
Advanced industries services		2,650	0.49	43.9%	1.7%	24.4%	2.3%
ADVANCED INDUSTRIES TOTAL		6,020	0.56	100.0%	0.3%	100.0%	-0.8%

† 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.