

Blacksburg, VA

Advanced industries employ

4,050

full-time workers. (2013)

These direct jobs supports an additional

3,240

indirect jobs in other industries in the region.

Advanced industries produce

\$0.6

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

Advanced industries pay, on average

\$123,980

dollars per year (2013).

Advanced industries directly account for

6.4%

of all jobs in the region.

This employment share is

#128

among all small metros.

This accounts for

13.3%

of all output in the region (2013).

This compares to average pay of

\$25,430

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

OUTPUT

15.1%

2.7%

9.8%

3.8%

Blacksburg, VA

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
3363	Motor Vehicle Parts	1,080	4.80	26.8%	27.1%	9.1%	35.8%
3366	Ships & Boats	880	15.45	21.7%	20.8%	5.9%	16.0%
3361	Motor Vehicles	340	4.06	8.3%	22.2%	19.7%	43.0%
3364	Aircraft Products & Parts	190	0.87	4.7%	18.3%	8.8%	19.2%
3259	Misc. Chemicals	180	4.88	4.4%	3.2%	4.5%	1.4%
2211	Power Generation & Supply	180	1.01	4.3%	-13.1%	15.3%	-14.1%
3362	Motor Vehicle Body & Trailers	150	2.49	3.7%	26.6%	3.5%	42.6%
3339	General Purpose Machinery	110	0.95	2.7%	12.4%	2.4%	7.9%
5413	Architecture & Engineering	90	0.15	2.3%	32.0%	2.2%	28.7%
3353	Electrical Equipment	80	1.32	2.1%	15.9%	1.4%	14.8%
3341	Computer Equipment	80	1.17	2.0%	19.5%	2.3%	17.0%
3365	Railroad Rolling Stock Manufacturing	60	5.41	1.4%	24.6%	2.1%	43.3%
3254	Pharmaceuticals	50	0.39	1.2%	6.3%	4.4%	6.1%
3399	Misc. Manufacturing	50	0.39	1.2%	10.1%	0.7%	17.7%
5416	Management Consulting	40	0.08	1.1%	-4.2%	1.2%	-4.0%
3251	Basic Chemicals	40	0.63	1.0%	-1.6%	1.9%	-2.0%
3369	Misc. Transportation Equipment	40	2.83	1.0%	26.0%	1.7%	26.7%
5417	R&D Services	40	0.14	1.0%	0.0%	1.3%	1.0%
3391	Medical Equipment & Supplies	40	0.28	0.9%	13.5%	0.8%	16.3%
3345	Precision Instruments	30	0.17	0.7%	4.9%	0.8%	12.8%
3332	Industrial Machinery	30	0.59	0.7%	11.9%	1.1%	13.0%
5415	Computer Systems Design	30	0.04	0.7%	-12.6%	0.9%	-12.7%
3331	Agri., Constr., Mining Machinery	30	0.24	0.6%	9.1%	0.8%	9.5%
3342	Communications Equipment	20	0.54	0.6%	14.5%	0.4%	0.4%
3252	Resins & Synthetic Rubbers	20	0.54	0.5%	3.2%	1.5%	9.2%
Advanced industries manufacturing		3,590	1.48	88.6%	19.2%	76.1%	20.8%
Advanced industries energy		180	0.65	4.5%	-12.2%	15.6%	-14.0%
Advanced industries services		280	0.10	6.8%	1.8%	8.4%	2.2%
ADVANCED INDUSTRIES TOTAL		4,050	0.74	100.0%	15.1%	100.0%	9.8%

† 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.