

Lynchburg, VA

Advanced industries employ

990

full-time workers. (2013)

These direct jobs supports an additional

790

indirect jobs in other industries in the region.

Advanced industries produce

\$0.2

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

Advanced industries pay, on average

\$57,050

dollars per year (2013).

Advanced industries directly account for

3.5%

of all jobs in the region.

This employment share is

#240

among all small metros.

This accounts for

9.1%

of all output in the region (2013).

This compares to average pay of

\$30,790

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

2.7%

OUTPUT

3.8%

-3.4%

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U.S.

-4.9%

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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
3399	Misc. Manufacturing	180	3.35	18.3%	4.0%	8.7%	7.8%
3339	General Purpose Machinery	110	2.24	11.4%	-7.6%	7.6%	-7.9%
2211	Power Generation & Supply	100	1.27	9.9%	-3.2%	27.2%	-4.2%
3333	Commercial & Service Machinery	70	3.86	6.7%	-7.0%	5.8%	-25.2%
3341	Computer Equipment	50	1.55	4.9%	-8.2%	4.1%	-10.5%
5417	R&D Services	40	0.32	4.1%	12.6%	4.2%	13.1%
3391	Medical Equipment & Supplies	40	0.64	3.9%	-4.8%	2.6%	-0.9%
5415	Computer Systems Design	40	0.11	3.7%	1.9%	4.0%	1.4%
3259	Misc. Chemicals	30	1.96	3.2%	-2.0%	1.9%	-2.8%
3254	Pharmaceuticals	30	0.55	3.0%	-4.1%	7.0%	-2.7%
3353	Electrical Equipment	30	1.00	2.8%	2.5%	1.6%	4.0%
5413	Architecture & Engineering	30	0.11	2.8%	-6.3%	2.4%	-7.1%
3332	Industrial Machinery	30	1.25	2.6%	-4.7%	3.1%	-1.7%
5416	Management Consulting	20	0.09	2.0%	7.7%	1.7%	3.8%
3331	Agri., Constr., Mining Machinery	20	0.37	1.8%	-6.5%	1.6%	-2.7%
3344	Semiconductors	20	0.25	1.8%	-23.4%	1.4%	-22.8%
3345	Precision Instruments	10	0.18	1.4%	0.0%	1.2%	6.0%
3366	Ships & Boats	10	0.48	1.2%	-9.1%	0.2%	-11.0%
6215	Medical and Diagnostic Laboratories	10	0.25	1.2%	6.3%	0.7%	10.9%
3315	Foundries	10	0.41	1.0%	-10.6%	0.3%	-9.6%
5179	Other telecommunications	10	0.60	1.0%	0.0%	1.5%	0.8%
3342	Communications Equipment	10	0.41	0.8%	-17.0%	0.4%	-26.1%
3351	Electrical Lighting Equipment	10	0.86	0.8%	0.0%	0.4%	-4.1%
5112	Software Products	10	0.14	0.8%	58.7%	1.6%	73.6%
5172	Wireless Telecom Carriers	10	0.27	0.8%	-23.7%	0.9%	-9.7%
Advanced industries manufacturing		700	0.66	71.4%	-4.3%	52.9%	-7.7%
Advanced industries energy		100	0.80	10.1%	-3.1%	27.5%	-4.2%
Advanced industries services		180	0.15	18.5%	0.0%	19.6%	3.0%
ADVANCED INDUSTRIES TOTAL		990	0.41	100.0%	-3.4%	100.0%	-4.9%

† 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.