

Roanoke, VA

Advanced industries employ

13,210

full-time workers. (2013)

These direct jobs supports an additional

10,570

indirect jobs in other industries in
the region.

Advanced industries produce

\$1.9

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

Advanced industries pay, on average

\$64,820

dollars per year (2013).

Advanced industries directly
account for

6.5%

of all jobs in the region.

This employment share is

#120

among all small metros.

This accounts for

9.6%

of all output in the region (2013).

This compares to average pay of

\$40,710

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

5.3%

2.7%

Roanoke, VA

U.S.

OUTPUT

5.2%

3.8%

Roanoke, VA

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
3363	Motor Vehicle Parts	2,090	2.88	15.8%	14.6%	8.6%	22.7%
3353	Electrical Equipment	1,640	8.06	12.4%	3.9%	9.5%	3.2%
5413	Architecture & Engineering	1,630	0.85	12.3%	8.6%	13.3%	8.2%
6215	Medical and Diagnostic Laboratories	1,280	3.67	9.7%	5.7%	5.7%	6.6%
5415	Computer Systems Design	740	0.30	5.6%	5.8%	7.6%	6.4%
3391	Medical Equipment & Supplies	530	1.23	4.0%	-9.8%	3.3%	-7.6%
3399	Misc. Manufacturing	470	1.19	3.5%	-1.8%	2.1%	3.0%
3362	Motor Vehicle Body & Trailers	410	2.13	3.1%	19.9%	4.1%	31.8%
3315	Foundries	390	2.18	2.9%	0.7%	1.3%	0.1%
5416	Management Consulting	380	0.23	2.9%	-7.7%	3.4%	-8.3%
3366	Ships & Boats	370	2.04	2.8%	7.2%	1.0%	0.2%
2211	Power Generation & Supply	340	0.61	2.6%	-5.1%	9.4%	-6.4%
3342	Communications Equipment	270	1.90	2.0%	8.1%	1.9%	0.9%
5179	Other telecommunications	260	2.15	2.0%	12.7%	3.8%	14.2%
3311	Iron & Steel Products	250	1.93	1.9%	0.3%	1.4%	0.4%
5417	R&D Services	240	0.26	1.8%	44.6%	2.5%	45.9%
3333	Commercial & Service Machinery	200	1.63	1.5%	-1.6%	1.8%	-16.1%
3359	Misc. Electrical Equipment	200	1.12	1.5%	6.8%	1.2%	-0.5%
3313	Aluminum Products	190	2.32	1.5%	-1.3%	0.7%	-0.8%
3344	Semiconductors	140	0.27	1.1%	0.9%	1.5%	7.0%
3361	Motor Vehicles	140	0.54	1.1%	10.8%	3.7%	27.0%
3351	Electrical Lighting Equipment	140	2.10	1.1%	9.6%	0.6%	0.7%
5172	Wireless Telecom Carriers	130	0.59	1.0%	15.7%	1.4%	35.2%
5182	Data Processing & Hosting	120	0.32	0.9%	2.3%	1.1%	2.9%
5152	Cable and Other Subscription Programming	100	0.96	0.7%	6.1%	1.6%	17.8%
Advanced industries manufacturing		7,970	1.03	60.3%	5.0%	49.6%	5.5%
Advanced industries energy		350	0.39	2.7%	-5.0%	9.5%	-6.5%
Advanced industries services		4,890	0.56	37.0%	6.8%	40.9%	8.5%
ADVANCED INDUSTRIES TOTAL		13,210	0.76	100.0%	5.3%	100.0%	5.2%

† 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.