

## Roanoke, VA

Advanced industries employ

**11,250**

full-time workers. (2015)

These direct jobs supports an additional

**9,000**

indirect jobs in other industries in the region.

Advanced industries produce

**\$1.7**

billion dollars in output in the region. (2015, 2009 Chained)

Advanced industries pay, on average

**\$67,475**

dollars per year (2015).

Advanced industries directly account for

**6.8%**

of all jobs in the region.

This employment share is

**#112**

among all small metros.

This accounts for

**10.4%**

of all output in the region (2015).

This compares to average pay of

**\$43,770**

for all industries (2015).

Advanced industry annual average growth, 2013-2015

### OUTPUT

RANK: #162  
2.70%

1.23%

Roanoke, VA

U.S.

### JOBS

RANK: #246  
2.46%

-1.81%

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

#### VIEW THE FULL REPORT

[www.brookings.edu/advancedindustries](http://www.brookings.edu/advancedindustries)

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#### DATA NOTES

All figures reflect Brookings analysis of data from Moody's Analytics.

# Roanoke, VA

## Twenty-Five Largest Advanced Industries (2015)

There are 8 advanced industries in Roanoke, VA with LQs over 1.5. LQs over 1.5 indicate specialization †

Industry 4-Digit NAICS Code	Industry Title	Industry Employment (2015)	Industry Location Quotient (LQ) † 2015	Industry Share of Total Advanced Industries Employment (2015)	Industry Employment Annual Growth		Industry Share of Total Advanced Industries Output (2015)	Industry Output Annual Growth	
					2010-2013	2013-2015		2010-2013	2013-2015
5415	Computer Systems Design	2,590	1.21	23.0%	2.6%	0.7%	25.4%	3.2%	5.0%
3363	Motor Vehicle Parts	1,310	2.07	11.7%	15.0%	10.9%	7.5%	19.0%	8.3%
3353	Electrical Equipment	1,260	7.85	11.2%	-2.1%	0.5%	6.4%	-8.3%	-0.1%
5413	Engineering	1,070	0.68	9.5%	2.9%	0.3%	8.6%	-0.5%	-1.5%
6215	Medical and Diagnostic Laboratories	500	1.71	4.4%	5.1%	-25.7%	3.7%	6.3%	-4.6%
5416	Management Consulting	480	0.33	4.2%	-2.8%	25.0%	3.9%	-6.3%	21.1%
3391	Medical Equipment & Supplies	350	1.01	3.1%	-5.3%	-6.3%	1.9%	-8.5%	-4.9%
3342	Communications Equipment	320	3.25	2.9%	0.3%	-10.1%	2.6%	-5.6%	-5.7%
2211	Power Generation & Supply	300	0.67	2.6%	-3.3%	3.0%	9.4%	-6.8%	-3.2%
3344	Semiconductors	290	0.70	2.6%	-7.6%	-11.7%	3.4%	-3.5%	-5.7%
3359	Misc. Electrical Equipment	280	1.90	2.5%	4.1%	2.0%	1.6%	-7.6%	2.7%
3399	Misc. Manufacturing	250	0.78	2.2%	-5.8%	-6.0%	1.1%	-3.4%	-4.4%
3315	Foundries	240	1.73	2.1%	-0.9%	-0.4%	0.6%	3.5%	-18.8%
3362	Motor Vehicle Body & Trailers	230	1.34	2.0%	17.7%	-8.0%	2.5%	26.3%	8.9%
3366	Ships & Boats	210	1.40	1.9%	4.8%	-11.3%	0.8%	10.7%	-1.5%
5417	R&D Services	180	0.25	1.6%	64.0%	-8.2%	2.2%	59.4%	-0.5%
3311	Iron & Steel Products	170	1.66	1.5%	-1.6%	-0.3%	0.8%	2.9%	-9.3%
3313	Aluminum Products	130	1.93	1.1%	-3.6%	-0.4%	0.5%	0.9%	-5.5%
3333	Commercial & Service Machinery	130	1.28	1.1%	-3.6%	-3.0%	0.9%	-24.2%	-14.2%
3279	Stone & Mineral Products	100	1.24	0.9%	5.6%	2.0%	0.7%	10.3%	-1.7%
5179	Other telecommunications	90	0.96	0.8%	7.3%	-19.6%	2.9%	6.0%	1.5%
3361	Motor Vehicles	80	0.35	0.7%	9.8%	-7.7%	1.4%	20.1%	-2.4%
3351	Electrical Lighting Equipment	80	1.41	0.7%	5.0%	1.3%	0.5%	-4.9%	4.7%
5182	Data Processing & Hosting	70	0.20	0.6%	-3.1%	-13.6%	0.8%	-5.1%	-7.6%
5152	Cable and Other Subscription Programming	60	0.85	0.5%	1.4%	-8.8%	1.2%	14.7%	-5.4%
IFG	Advanced industries manufacturing	5,850	0.94	52.0%	1.3%	-1.0%	39.5%	-0.7%	-0.3%
	Advanced industries energy	300	0.42	2.7%	-3.3%	3.2%	9.4%	-6.9%	-3.2%
	Advanced industries services	5,100	0.68	45.3%	3.9%	-3.0%	51.1%	4.1%	3.4%
	<b>ADVANCED INDUSTRIES TOTAL</b>	<b>11,250</b>	<b>0.78</b>	<b>100.0%</b>	<b>2.3%</b>	<b>-1.8%</b>	<b>100.0%</b>	<b>0.8%</b>	<b>1.2%</b>

† 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.