

## Winchester, VA-WV

Advanced industries employ

70

full-time workers. (2013)

These direct jobs supports an additional

60

indirect jobs in other industries in the region.

Advanced industries produce

\$0.0

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

Advanced industries pay, on average

\$61,990

dollars per year (2013).

Advanced industries directly

account for

1.4%

of all jobs in the region.

This employment share is

#277

among all small metros.

This accounts for

3.9%

of all output in the region (2013).

This compares to average pay of

\$25,870

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOB

2.7%

OUTPUT

3.8%

-4.7%

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-8.7%

Winchester, VA-WV

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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### DATA NOTES

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

# Winchester, VA-WV

## 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
2211	Power Generation & Supply	20	1.21	23.9%	-1.9%	25.5%	-16.7%
5415	Computer Systems Design	10	0.18	15.5%	11.2%	14.5%	17.9%
5416	Management Consulting	10	0.17	9.9%	0.0%	6.5%	-6.1%
3361	Motor Vehicles	10	0.75	7.0%	-17.8%	15.9%	-10.0%
5413	Architecture & Engineering	10	0.10	7.0%	7.7%	3.6%	-1.0%
3363	Motor Vehicle Parts	-	0.22	5.6%	-12.6%	2.5%	-2.4%
3364	Aircraft Products & Parts	-	0.17	4.2%	-15.7%	4.2%	-18.0%
6215	Medical and Diagnostic Laboratories	-	0.34	4.2%	0.0%	1.4%	1.4%
3336	Engine & Power Equipment	-	0.55	2.8%	26.0%	1.2%	-5.0%
3362	Motor Vehicle Body & Trailers	-	0.41	2.8%	-12.6%	2.9%	-18.1%
3251	Basic Chemicals	-	0.20	1.4%	0.0%	3.3%	-3.3%
3252	Resins & Synthetic Rubbers	-	0.30	1.4%	0.0%	2.9%	6.7%
3253	Pesticides & Fertilizers	-	0.75	1.4%	0.0%	1.3%	-1.0%
3254	Pharmaceuticals	-	0.10	1.4%	0.0%	2.5%	1.3%
3311	Iron & Steel Products	-	0.31	1.4%	0.0%	1.4%	12.6%
3313	Aluminum Products	-	0.48	1.4%	0.0%	0.9%	8.3%
3345	Precision Instruments	-	0.07	1.4%	0.0%	0.6%	-8.2%
3365	Railroad Rolling Stock Manufacturing	-	1.16	1.4%	0.0%	0.9%	-13.5%
3366	Ships & Boats	-	0.22	1.4%	-30.7%	0.8%	-30.2%
3391	Medical Equipment & Supplies	-	0.09	1.4%	-20.6%	1.9%	-15.1%
5191	Web Search Portals and Internet Publishing	-	0.14	1.4%	0.0%	0.9%	1.6%
5417	R&D Services	-	0.04	1.4%	0.0%	1.0%	25.5%
2111	Oil & Gas Extraction	-	0.00	0.0%	#REF!	0.6%	15.6%
2122	Metal Ore Mining	-	0.00	0.0%	#REF!	0.0%	4.7%
3241	Petroleum & Coal Products	-	0.00	0.0%	#REF!	0.3%	-24.0%
Advanced industries manufacturing		30	0.13	36.6%	-12.6%	45.1%	-9.6%
Advanced industries energy		20	0.75	23.9%	-1.9%	26.1%	-16.3%
Advanced industries services		30	0.13	39.4%	3.8%	28.9%	3.7%
<b>ADVANCED INDUSTRIES TOTAL</b>		<b>70</b>	<b>0.16</b>	<b>100.0%</b>	<b>-4.7%</b>	<b>100.0%</b>	<b>-8.7%</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.