

Asheville, NC

Advanced industries employ

12,460

full-time workers. (2013)

These direct jobs supports an additional

9,970

indirect jobs in other industries in
the region.

Advanced industries produce

\$2.6

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

Advanced industries pay, on average

\$59,490

dollars per year (2013).

Advanced industries directly
account for

6.9%

of all jobs in the region.

This employment share is

#107

among all small metros.

This accounts for

15.7%

of all output in the region (2013).

This compares to average pay of

\$38,030

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

3.3%

2.7%

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U.S.

OUTPUT

3.1%

3.8%

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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
3353	Electrical Equipment	2,830	15.48	22.7%	3.7%	19.5%	1.0%
5416	Management Consulting	1,240	0.82	9.9%	6.1%	6.4%	4.7%
3363	Motor Vehicle Parts	1,190	1.83	9.5%	6.4%	7.0%	21.1%
5413	Architecture & Engineering	1,100	0.64	8.8%	6.8%	5.2%	6.7%
5415	Computer Systems Design	670	0.31	5.4%	16.8%	4.4%	17.8%
3391	Medical Equipment & Supplies	470	1.20	3.7%	-1.5%	3.2%	0.9%
3341	Computer Equipment	450	2.22	3.6%	-6.1%	4.3%	-17.1%
6215	Medical and Diagnostic Laboratories	430	1.37	3.4%	1.4%	1.5%	-3.0%
2211	Power Generation & Supply	410	0.82	3.3%	-1.0%	10.3%	5.2%
3364	Aircraft Products & Parts	320	0.50	2.5%	4.4%	3.3%	2.9%
3359	Misc. Electrical Equipment	290	1.81	2.3%	9.0%	1.5%	3.8%
3331	Agri., Constr., Mining Machinery	280	0.87	2.2%	-10.7%	2.3%	-10.8%
3342	Communications Equipment	260	2.05	2.1%	-1.9%	2.6%	-8.5%
3361	Motor Vehicles	220	0.90	1.7%	2.8%	1.9%	32.7%
3252	Resins & Synthetic Rubbers	210	1.79	1.7%	3.9%	4.7%	6.4%
3271	Clay Product and Refractory Manufacturing	200	3.94	1.6%	-9.0%	0.8%	-5.7%
5172	Wireless Telecom Carriers	140	0.69	1.1%	2.1%	0.9%	12.2%
3352	Household Appliances	130	1.70	1.0%	1.9%	1.2%	2.2%
3344	Semiconductors	120	0.26	1.0%	0.3%	0.9%	-10.2%
3339	General Purpose Machinery	120	0.35	0.9%	-4.7%	0.9%	-1.7%
5182	Data Processing & Hosting	110	0.33	0.9%	3.8%	0.7%	2.4%
3345	Precision Instruments	110	0.21	0.8%	0.6%	1.0%	-3.2%
3332	Industrial Machinery	100	0.72	0.8%	10.8%	0.7%	11.4%
3311	Iron & Steel Products	100	0.83	0.8%	9.6%	0.4%	27.4%
5417	R&D Services	100	0.12	0.8%	7.6%	0.6%	8.9%
Advanced industries manufacturing		8,130	1.17	65.2%	1.9%	67.6%	1.7%
Advanced industries energy		410	0.51	3.3%	-1.0%	10.3%	5.2%
Advanced industries services		3,930	0.50	31.5%	7.3%	22.1%	7.0%
ADVANCED INDUSTRIES TOTAL		12,460	0.80	100.0%	3.3%	100.0%	3.1%

† 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.