

Knoxville, TN

Advanced industries employ

35,210

full-time workers. (2013)

These direct jobs supports an additional

28,170

indirect jobs in other industries in
the region.

Advanced industries produce

\$5.7

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

Advanced industries pay, on average

\$72,140

dollars per year (2013).

Advanced industries directly
account for

9.4%

of all jobs in the region.

This employment share is

#32

among all large metros.

This accounts for

16.4%

of all output in the region (2013).

This compares to average pay of

\$43,500

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

0.9%

2.7%

OUTPUT

3.9%

3.8%

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U.S.

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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.

Knoxville, TN

Twenty-Five Largest Advanced Industries (2013)

There are 13 advanced industries in Knoxville, TN with LQs over 1.5. LQs over 1.5 indicate specialization †

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
5417	R&D Services	5,900	3.51	16.8%	-3.6%	14.6%	-0.9%
5413	Architecture & Engineering	5,740	1.61	16.3%	5.1%	12.6%	2.0%
3363	Motor Vehicle Parts	5,190	3.84	14.7%	4.8%	14.7%	12.5%
5416	Management Consulting	3,450	1.10	9.8%	-4.8%	8.4%	-5.1%
5415	Computer Systems Design	2,220	0.49	6.3%	-1.3%	6.7%	0.8%
3345	Precision Instruments	1,470	1.41	4.2%	4.2%	5.7%	6.7%
3313	Aluminum Products	1,090	7.02	3.1%	0.0%	2.4%	7.6%
3361	Motor Vehicles	920	1.86	2.6%	3.8%	3.0%	7.0%
3366	Ships & Boats	800	2.35	2.3%	3.4%	0.9%	4.8%
5172	Wireless Telecom Carriers	770	1.88	2.2%	2.4%	2.8%	8.8%
3399	Misc. Manufacturing	670	0.92	1.9%	8.7%	1.3%	11.7%
3391	Medical Equipment & Supplies	670	0.82	1.9%	-8.5%	2.2%	-7.5%
6215	Medical and Diagnostic Laboratories	610	0.93	1.7%	3.7%	1.0%	3.1%
3311	Iron & Steel Products	570	2.34	1.6%	-1.7%	1.6%	9.7%
3364	Aircraft Products & Parts	500	0.38	1.4%	6.6%	1.2%	9.8%
3339	General Purpose Machinery	490	0.72	1.4%	1.2%	1.0%	3.5%
3251	Basic Chemicals	460	1.20	1.3%	2.4%	2.3%	5.6%
3252	Resins & Synthetic Rubbers	410	1.67	1.2%	1.2%	1.6%	1.8%
3352	Household Appliances	400	2.60	1.1%	4.6%	0.9%	11.3%
5152	Cable and Other Subscription Programming	340	1.79	1.0%	3.5%	3.0%	12.7%
5182	Data Processing & Hosting	300	0.42	0.9%	15.0%	0.7%	14.5%
3359	Misc. Electrical Equipment	260	0.79	0.7%	11.0%	0.9%	17.7%
3271	Clay Product and Refractory Manufacturing	190	1.84	0.5%	0.7%	0.3%	7.5%
3362	Motor Vehicle Body & Trailers	170	0.48	0.5%	1.4%	1.9%	39.1%
3279	Stone & Mineral Products	160	0.89	0.5%	-0.8%	0.3%	6.7%
Advanced industries manufacturing		15,490	1.07	44.0%	2.9%	46.1%	8.4%
Advanced industries energy		240	0.14	0.7%	0.0%	3.3%	2.6%
Advanced industries services		19,480	1.19	55.3%	-0.5%	50.6%	0.5%
ADVANCED INDUSTRIES TOTAL		35,210	1.08	100.0%	0.9%	100.0%	3.9%

† 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.