

Knoxville, TN

Advanced industries employ

34,723

full-time workers. (2015)

These direct jobs supports an additional

27,780

indirect jobs in other industries in
the region.

Advanced industries produce

\$5.5

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

Advanced industries pay, on average

\$85,978

dollars per year (2015).

Advanced industries directly
account for

8.8%

of all jobs in the region.

This employment share is

#46

among all large metros.

This accounts for

15.5%

of all output in the region (2015).

This compares to average pay of

\$45,627

for all industries (2015).

Advanced industry annual average growth, 2013-2015

OUTPUT

JOB

RANK:
#76

2.70%

RANK:
#63

2.46%

1.30%

1.15%

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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

VIEW THE FULL REPORT

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 (2015)

There are 11 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 (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
5417	R&D Services	6,550	3.69	18.9%	-2.2%	-0.6%	16.0%	-1.4%	0.4%
3363	Motor Vehicle Parts	5,670	3.74	16.3%	6.4%	4.7%	13.9%	15.3%	1.9%
5413	Engineering	5,100	1.35	14.7%	5.0%	0.6%	11.5%	-0.6%	1.6%
5416	Management Consulting	3,010	0.88	8.7%	-4.8%	-4.4%	9.7%	-8.5%	0.8%
5415	Computer Systems Design	2,040	0.40	5.9%	0.2%	9.1%	5.1%	2.6%	9.7%
3345	Precision Instruments	1,530	1.43	4.4%	3.9%	3.2%	7.1%	11.5%	2.8%
3313	Aluminum Products	1,090	6.83	3.2%	4.9%	0.4%	1.9%	9.3%	-6.3%
3361	Motor Vehicles	990	1.79	2.8%	2.1%	3.1%	3.0%	5.4%	4.9%
5172	Wireless Telecom Carriers	790	2.20	2.3%	-1.2%	1.7%	3.7%	2.8%	8.5%
3399	Misc. Manufacturing	690	0.91	2.0%	12.5%	7.0%	1.5%	12.4%	12.0%
3366	Ships & Boats	670	1.86	1.9%	3.7%	6.0%	1.3%	5.6%	5.2%
6215	Medical and Diagnostic Laboratories	630	0.91	1.8%	3.7%	3.5%	1.1%	1.3%	4.6%
3311	Iron & Steel Products	550	2.29	1.6%	3.6%	2.8%	1.3%	12.3%	-4.3%
3391	Medical Equipment & Supplies	530	0.64	1.5%	-9.0%	-17.5%	1.7%	-9.6%	-13.2%
3359	Misc. Electrical Equipment	520	1.50	1.5%	9.1%	0.5%	1.5%	11.0%	-1.4%
3364	Aircraft Products & Parts	430	0.33	1.2%	2.1%	-4.6%	2.0%	12.9%	4.6%
3339	General Purpose Machinery	400	0.56	1.2%	1.2%	-9.8%	0.9%	5.7%	-11.4%
3352	Household Appliances	380	2.28	1.1%	7.4%	17.9%	0.7%	9.0%	15.3%
5182	Data Processing & Hosting	360	0.45	1.0%	16.3%	13.0%	1.0%	14.1%	23.7%
5152	Cable and Other Subscription Programming	340	2.05	1.0%	6.0%	-0.4%	3.8%	12.0%	4.2%
3251	Basic Chemicals	330	0.83	1.0%	4.1%	0.5%	1.7%	10.1%	-8.6%
3271	Clay Product and Refractory Manufacturing	260	2.40	0.7%	4.4%	4.6%	0.4%	9.2%	-5.9%
3279	Stone & Mineral Products	230	1.14	0.7%	2.8%	34.8%	0.2%	8.2%	2.7%
3362	Motor Vehicle Body & Trailers	160	0.40	0.5%	2.5%	-1.2%	1.7%	45.4%	-9.6%
3252	Resins & Synthetic Rubbers	150	0.61	0.4%	-0.3%	-18.3%	0.7%	1.7%	-17.0%
IFG	Advanced industries manufacturing	15,570	1.04	44.8%	3.8%	1.9%	45.5%	9.2%	-0.7%
	Advanced industries energy	110	0.07	0.3%	2.7%	2.3%	1.6%	-2.0%	3.1%
	Advanced industries services	19,050	1.06	54.8%	-0.2%	0.5%	52.9%	-1.3%	3.0%
	ADVANCED INDUSTRIES TOTAL	34,720	1.00	100.0%	1.5%	1.1%	100.0%	3.1%	1.3%

† 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.