

Topeka, KS

Advanced industries employ

4,760

full-time workers. (2013)

These direct jobs supports an additional

3,810

indirect jobs in other industries in
the region.

Advanced industries produce

\$0.9

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

Advanced industries pay, on average

\$54,500

dollars per year (2013).

Advanced industries directly
account for

4.1%

of all jobs in the region.

This employment share is

#217

among all small metros.

This accounts for

8.8%

of all output in the region (2013).

This compares to average pay of

\$41,860

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

5.9%

2.7%

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U.S.

OUTPUT

4.7%

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
2211	Power Generation & Supply	1,170	3.61	24.5%	1.1%	42.6%	1.3%
5416	Management Consulting	830	0.86	17.5%	14.3%	10.0%	10.5%
5415	Computer Systems Design	660	0.48	13.9%	5.3%	10.2%	4.9%
5413	Architecture & Engineering	570	0.51	11.9%	1.2%	6.5%	1.8%
5182	Data Processing & Hosting	330	1.51	6.9%	150.5%	4.5%	137.4%
3259	Misc. Chemicals	200	2.95	4.2%	-0.2%	5.8%	0.0%
5417	R&D Services	190	0.36	3.9%	1.3%	2.8%	2.5%
3391	Medical Equipment & Supplies	130	0.50	2.6%	-3.2%	1.0%	-1.7%
3364	Aircraft Products & Parts	80	0.20	1.7%	16.1%	1.5%	15.1%
3332	Industrial Machinery	70	0.85	1.6%	17.2%	0.9%	22.5%
5191	Web Search Portals and Internet Publishing	70	0.44	1.5%	-9.6%	0.7%	-9.2%
2111	Oil & Gas Extraction	70	0.43	1.5%	39.1%	2.6%	33.5%
6215	Medical and Diagnostic Laboratories	50	0.25	1.1%	-13.9%	0.6%	-12.2%
3254	Pharmaceuticals	30	0.14	0.7%	0.0%	3.0%	15.1%
5172	Wireless Telecom Carriers	30	0.25	0.7%	-19.3%	0.6%	-23.2%
3251	Basic Chemicals	30	0.26	0.7%	-1.1%	1.7%	3.5%
3362	Motor Vehicle Body & Trailers	30	0.25	0.6%	15.9%	0.6%	34.8%
3331	Agri., Constr., Mining Machinery	20	0.10	0.4%	3.4%	0.3%	9.5%
3241	Petroleum & Coal Products	20	0.21	0.4%	-1.7%	1.6%	17.3%
3339	General Purpose Machinery	20	0.09	0.4%	1.8%	0.2%	8.9%
3399	Misc. Manufacturing	20	0.08	0.4%	-5.3%	0.1%	-0.5%
3363	Motor Vehicle Parts	20	0.04	0.3%	7.2%	0.1%	28.5%
5152	Cable and Other Subscription Programming	20	0.27	0.3%	10.1%	0.0%	22.6%
3279	Stone & Mineral Products	20	0.26	0.3%	-14.5%	0.1%	-18.9%
3359	Misc. Electrical Equipment	20	0.15	0.3%	-2.1%	0.1%	-2.6%
Advanced industries manufacturing		780	0.17	16.4%	2.6%	18.8%	6.7%
Advanced industries energy		1,240	2.37	25.9%	2.3%	45.1%	2.4%
Advanced industries services		2,750	0.54	57.7%	8.7%	36.1%	6.8%
ADVANCED INDUSTRIES TOTAL		4,760	0.47	100.0%	5.9%	100.0%	4.7%

† 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.