

Lawton, OK

Advanced industries employ

1,470

full-time workers. (2013)

These direct jobs supports an additional

1,180

indirect jobs in other industries in
the region.

Advanced industries produce

\$0.3

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

Advanced industries pay, on average

\$65,670

dollars per year (2013).

Advanced industries directly
account for

2.5%

of all jobs in the region.

This employment share is

#265

among all small metros.

This accounts for

6.2%

of all output in the region (2013).

This compares to average pay of

\$40,530

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

7.1%

2.7%

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U.S.

OUTPUT

5.2%

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
5416	Management Consulting	470	0.94	31.8%	39.6%	18.8%	33.5%
2211	Power Generation & Supply	160	0.98	11.0%	0.4%	27.6%	6.4%
5413	Architecture & Engineering	150	0.27	10.5%	5.5%	5.9%	5.5%
5415	Computer Systems Design	130	0.19	9.0%	-6.4%	6.1%	-5.7%
5417	R&D Services	50	0.20	3.6%	5.6%	2.3%	6.0%
5182	Data Processing & Hosting	40	0.36	2.8%	-3.1%	1.9%	2.8%
3279	Stone & Mineral Products	40	1.30	2.6%	1.8%	1.7%	2.0%
3259	Misc. Chemicals	40	1.06	2.5%	6.1%	3.8%	15.3%
3315	Foundries	30	0.61	2.2%	2.2%	1.0%	14.6%
3353	Electrical Equipment	30	0.51	2.1%	0.0%	1.2%	-0.9%
5172	Wireless Telecom Carriers	30	0.45	2.0%	-22.4%	2.9%	-20.1%
3241	Petroleum & Coal Products	30	0.59	1.9%	-1.2%	7.1%	5.2%
5112	Software Products	30	0.22	1.8%	5.5%	2.6%	4.5%
6215	Medical and Diagnostic Laboratories	30	0.26	1.8%	10.5%	1.0%	13.3%
3399	Misc. Manufacturing	30	0.22	1.7%	7.7%	0.6%	9.2%
3391	Medical Equipment & Supplies	20	0.16	1.4%	-7.2%	0.9%	-6.9%
3251	Basic Chemicals	20	0.27	1.1%	4.6%	3.4%	7.2%
3311	Iron & Steel Products	20	0.39	1.0%	0.0%	0.4%	21.4%
3352	Household Appliances	10	0.57	1.0%	2.5%	0.4%	-3.5%
2111	Oil & Gas Extraction	10	0.16	0.9%	-18.5%	2.8%	-20.6%
3313	Aluminum Products	10	0.53	0.9%	2.7%	0.1%	2.9%
5152	Cable and Other Subscription Programming	10	0.40	0.8%	-5.0%	1.0%	3.2%
3364	Aircraft Products & Parts	10	0.05	0.7%	3.2%	0.4%	0.6%
3253	Pesticides & Fertilizers	10	0.63	0.7%	3.6%	1.4%	12.2%
3345	Precision Instruments	10	0.06	0.7%	3.6%	0.6%	4.0%
Advanced industries manufacturing		340	0.15	23.1%	1.7%	25.9%	6.8%
Advanced industries energy		180	0.65	11.9%	-1.7%	30.4%	2.1%
Advanced industries services		960	0.37	65.0%	11.5%	43.7%	6.5%
ADVANCED INDUSTRIES TOTAL		1,470	0.28	100.0%	7.1%	100.0%	5.2%

† 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.