

## Oklahoma

Advanced industries employ

**128,180**

full-time workers. (2013)

These direct jobs supports an additional

**102,540**

indirect jobs in other industries in  
the region.

Advanced industries produce

**\$31.3**

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

Advanced industries pay, on average

**\$77,150**

dollars per year (2013).

Advanced industries directly  
account for

**7.3%**

of all jobs in the region.

This employment share is

**#33**

among all states.

This accounts for

**19.0%**

of all output in the region (2013).

This compares to average pay of

**\$41,170**

for all industries (2013).

Advanced industry annual average growth, 2010-2013

**JOBS**

**OUTPUT**

4.2%

2.7%

5.8%

3.8%

Oklahoma

U.S.

Oklahoma

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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#### DATA NOTES

All figures reflect Brookings analysis of data from Moody's Analytics.

# Oklahoma

## Twenty-Five Largest Advanced Industries (2013)

There are 8 advanced industries in Oklahoma 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
2111	Oil & Gas Extraction	24,330	9.93	19.0%	9.0%	45.8%	5.5%
5413	Architecture & Engineering	12,310	0.74	9.6%	1.8%	4.2%	4.3%
3331	Agri., Constr., Mining Machinery	12,090	3.91	9.4%	11.7%	5.0%	16.5%
3339	General Purpose Machinery	9,500	3.00	7.4%	9.2%	3.6%	14.0%
5416	Management Consulting	8,810	0.60	6.9%	4.8%	3.1%	5.9%
5415	Computer Systems Design	7,260	0.34	5.7%	0.1%	3.0%	3.1%
3364	Aircraft Products & Parts	6,680	1.08	5.2%	9.4%	2.0%	9.3%
2211	Power Generation & Supply	6,490	1.33	5.1%	0.5%	8.9%	7.6%
3363	Motor Vehicle Parts	3,120	0.49	2.4%	6.7%	1.2%	10.9%
3362	Motor Vehicle Body & Trailers	2,940	1.75	2.3%	11.1%	1.0%	13.0%
3399	Misc. Manufacturing	2,650	0.78	2.1%	-0.2%	0.7%	-1.5%
3345	Precision Instruments	2,560	0.52	2.0%	2.0%	1.3%	3.3%
3241	Petroleum & Coal Products	2,360	1.69	1.8%	0.1%	4.7%	4.4%
5172	Wireless Telecom Carriers	2,320	1.21	1.8%	-3.4%	2.4%	2.3%
6215	Medical and Diagnostic Laboratories	2,230	0.73	1.7%	1.0%	0.6%	2.1%
5182	Data Processing & Hosting	1,460	0.44	1.1%	-6.7%	0.5%	-6.6%
5417	R&D Services	1,440	0.18	1.1%	-8.1%	0.7%	-3.9%
3333	Commercial & Service Machinery	1,440	1.33	1.1%	5.4%	0.6%	8.5%
3271	Clay Product and Refractory Manufacturing	1,420	2.93	1.1%	2.0%	0.5%	4.8%
3315	Foundries	1,400	0.90	1.1%	10.5%	0.2%	13.6%
3353	Electrical Equipment	1,320	0.74	1.0%	-0.1%	0.4%	-3.2%
3391	Medical Equipment & Supplies	1,110	0.29	0.9%	-1.3%	0.4%	-2.9%
3352	Household Appliances	1,110	1.54	0.9%	-6.9%	0.3%	-9.0%
3251	Basic Chemicals	1,030	0.58	0.8%	6.1%	1.2%	18.3%
3341	Computer Equipment	980	0.50	0.8%	3.4%	0.8%	5.3%
Advanced industries manufacturing		58,870	0.87	45.9%	5.4%	28.3%	8.4%
Advanced industries energy		30,820	3.91	24.0%	7.0%	54.7%	5.8%
Advanced industries services		38,490	0.50	30.0%	0.4%	17.0%	1.9%
<b>ADVANCED INDUSTRIES TOTAL</b>		<b>128,180</b>	<b>0.84</b>	<b>100.0%</b>	<b>4.2%</b>	<b>100.0%</b>	<b>5.8%</b>

† 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.