

## Oklahoma

Advanced industries employ

**130,142**

full-time workers. (2015)

These direct jobs supports an additional

**104,110**

indirect jobs in other industries in  
the region.

Advanced industries produce

**\$31.1**

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

Advanced industries pay, on average

**\$80,519**

dollars per year (2015).

Advanced industries directly  
account for

**7.3%**

of all jobs in the region.

This employment share is

**#34**

among all states.

This accounts for

**18.7%**

of all output in the region (2015).

This compares to average pay of

**\$43,081**

for all industries (2015).

Advanced industry annual average growth, 2013-2015

### OUTPUT

### JOBS

3.32%

RANK:  
**#14**

2.70%

RANK:  
**#40**

2.46%

0.83%

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

#### VIEW THE FULL REPORT

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#### DATA NOTES

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

# Oklahoma

## Twenty-Five Largest Advanced Industries (2015)

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 (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
2111	Oil & Gas Extraction	23,990	10.25	18.4%	8.9%	-0.6%	50.4%	4.8%	6.0%
5413	Engineering	12,330	0.72	9.5%	1.7%	0.2%	4.3%	3.8%	-0.6%
3331	Agri., Constr., Mining Machinery	11,720	4.09	9.0%	12.1%	-2.1%	5.1%	17.6%	-1.7%
5416	Management Consulting	9,590	0.62	7.4%	5.2%	3.7%	3.5%	5.6%	3.5%
3339	General Purpose Machinery	9,390	2.91	7.2%	9.6%	-1.1%	3.7%	15.4%	-1.9%
5415	Computer Systems Design	8,610	0.37	6.6%	0.5%	8.2%	3.1%	3.2%	12.0%
3364	Aircraft Products & Parts	7,010	1.18	5.4%	9.5%	2.3%	2.4%	2.4%	4.6%
2211	Power Generation & Supply	6,580	1.37	5.1%	0.5%	0.7%	6.7%	6.1%	-11.3%
3362	Motor Vehicle Body & Trailers	3,340	1.83	2.6%	11.0%	6.7%	0.6%	-1.1%	8.2%
3363	Motor Vehicle Parts	3,110	0.46	2.4%	6.7%	0.1%	0.6%	-2.6%	-0.2%
6215	Medical and Diagnostic Laboratories	2,810	0.90	2.2%	1.2%	12.0%	0.8%	1.2%	12.6%
3345	Precision Instruments	2,570	0.53	2.0%	1.6%	0.7%	1.2%	-2.1%	0.9%
3399	Misc. Manufacturing	2,470	0.72	1.9%	-0.5%	-3.0%	0.5%	-11.5%	1.0%
3241	Petroleum & Coal Products	2,390	1.80	1.8%	-0.2%	1.2%	5.1%	-1.4%	12.3%
5172	Wireless Telecom Carriers	1,830	1.13	1.4%	-3.4%	1.4%	1.6%	1.4%	14.6%
5417	R&D Services	1,600	0.20	1.2%	-7.8%	4.6%	0.8%	-3.9%	5.7%
3333	Commercial & Service Machinery	1,470	1.36	1.1%	5.8%	0.5%	0.6%	10.0%	-0.2%
3353	Electrical Equipment	1,340	0.77	1.0%	0.1%	0.3%	0.3%	-6.9%	-0.6%
3352	Household Appliances	1,290	1.73	1.0%	-6.4%	6.9%	0.3%	-12.6%	6.7%
3271	Clay Product and Refractory Manufacturing	1,260	2.63	1.0%	1.6%	-5.2%	0.4%	0.5%	-8.3%
5182	Data Processing & Hosting	1,250	0.35	1.0%	-6.7%	-7.2%	0.5%	-6.7%	-0.5%
3315	Foundries	1,120	0.74	0.9%	10.2%	-10.1%	0.2%	12.2%	-21.8%
3391	Medical Equipment & Supplies	990	0.27	0.8%	-1.6%	-5.3%	0.3%	-12.9%	0.2%
3361	Motor Vehicles	980	0.40	0.8%	-6.5%	1.3%	0.3%	-14.2%	0.1%
3341	Computer Equipment	980	0.50	0.8%	3.0%	0.8%	0.8%	-0.2%	3.8%
IFG	Advanced industries manufacturing	58,700	0.87	45.1%	5.5%	-0.3%	26.3%	4.0%	2.1%
	Advanced industries energy	30,570	4.01	23.5%	6.9%	-0.3%	57.1%	5.0%	3.4%
	Advanced industries services	40,880	0.51	31.4%	0.6%	3.4%	16.6%	2.1%	5.0%
<b>ADVANCED INDUSTRIES TOTAL</b>		<b>130,140</b>	<b>0.83</b>	<b>100.0%</b>	<b>4.3%</b>	<b>0.8%</b>	<b>100.0%</b>	<b>4.2%</b>	<b>3.3%</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.