

## North Dakota

Advanced industries employ

**29,201**

full-time workers. (2015)

These direct jobs supports an additional

**23,360**

indirect jobs in other industries in the region.

Advanced industries produce

**\$7.3**

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

Advanced industries pay, on average

**\$75,215**

dollars per year (2015).

Advanced industries directly account for

**5.8%**

of all jobs in the region.

This employment share is

**#44**

among all states.

This accounts for

**14.7%**

of all output in the region (2015).

This compares to average pay of

**\$47,411**

for all industries (2015).

Advanced industry annual average growth, 2013-2015

**OUTPUT**

**JOBS**

6.64%

RANK:  
#2

2.70%

2.98%

RANK:  
#15

2.46%

North Dakota

U.S.

North Dakota

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.

# North Dakota

## Twenty-Five Largest Advanced Industries (2015)

There are 4 advanced industries in North Dakota 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
5413	Engineering	4,850	1.02	16.6%	17.3%	4.9%	7.4%	21.2%	4.8%
3331	Agri., Constr., Mining Machinery	4,250	5.29	14.6%	8.8%	-2.9%	9.9%	11.6%	-3.2%
2111	Oil & Gas Extraction	2,840	4.33	9.7%	32.9%	20.2%	42.3%	44.8%	15.5%
2211	Power Generation & Supply	2,810	2.09	9.6%	1.6%	2.9%	13.2%	14.0%	-2.5%
5415	Computer Systems Design	2,710	0.42	9.3%	-0.2%	2.9%	3.5%	4.3%	11.1%
5416	Management Consulting	2,510	0.58	8.6%	26.2%	9.0%	4.0%	28.3%	9.5%
5112	Software Products	1,160	1.03	4.0%	-1.5%	-7.8%	5.0%	2.2%	-0.5%
3363	Motor Vehicle Parts	930	0.49	3.2%	16.9%	-4.4%	0.8%	9.9%	-0.9%
3341	Computer Equipment	690	1.26	2.4%	3.7%	-3.4%	1.5%	27.3%	-2.1%
3336	Engine & Power Equipment	660	1.89	2.3%	-9.1%	-0.4%	1.5%	-6.4%	-3.7%
3364	Aircraft Products & Parts	590	0.36	2.0%	1.9%	3.7%	0.9%	-2.0%	9.9%
5417	R&D Services	580	0.26	2.0%	-14.9%	14.7%	1.2%	-10.2%	16.7%
5182	Data Processing & Hosting	570	0.57	2.0%	-13.1%	-5.0%	0.7%	-17.6%	0.4%
3344	Semiconductors	530	0.42	1.8%	-0.9%	-0.5%	0.7%	22.7%	0.7%
3361	Motor Vehicles	490	0.71	1.7%	7.9%	0.1%	0.6%	1.9%	2.9%
3362	Motor Vehicle Body & Trailers	410	0.80	1.4%	3.2%	6.4%	0.3%	-5.3%	12.3%
3399	Misc. Manufacturing	350	0.36	1.2%	8.9%	-2.1%	0.3%	11.6%	0.6%
3391	Medical Equipment & Supplies	270	0.26	0.9%	3.4%	-2.5%	0.3%	5.3%	2.0%
3241	Petroleum & Coal Products	240	0.66	0.8%	4.0%	0.0%	2.2%	-0.2%	6.4%
6215	Medical and Diagnostic Laboratories	230	0.26	0.8%	1.0%	3.2%	0.2%	0.3%	2.5%
3251	Basic Chemicals	170	0.34	0.6%	-7.0%	7.0%	0.9%	5.1%	-2.3%
3339	General Purpose Machinery	160	0.17	0.5%	-6.1%	-0.6%	0.3%	-3.3%	-1.9%
3279	Stone & Mineral Products	130	0.52	0.5%	4.8%	1.2%	0.2%	17.1%	0.5%
3333	Commercial & Service Machinery	130	0.43	0.4%	4.3%	8.3%	0.3%	6.4%	6.8%
5172	Wireless Telecom Carriers	110	0.24	0.4%	-10.6%	-0.9%	0.4%	-7.7%	10.2%
IFG	Advanced industries manufacturing	10,680	0.56	36.6%	5.3%	-1.2%	21.7%	7.7%	-0.5%
	Advanced industries energy	5,650	2.64	19.3%	11.1%	10.6%	55.5%	32.0%	10.3%
	Advanced industries services	12,880	0.57	44.1%	6.3%	3.6%	22.8%	8.5%	5.7%
	<b>ADVANCED INDUSTRIES TOTAL</b>	<b>29,200</b>	<b>0.67</b>	<b>100.0%</b>	<b>6.7%</b>	<b>3.0%</b>	<b>100.0%</b>	<b>18.1%</b>	<b>6.6%</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.