

North Carolina

Advanced industries employ

374,744

full-time workers. (2015)

These direct jobs supports an additional

299,800

indirect jobs in other industries in the region.

Advanced industries produce

\$83.0

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

Advanced industries pay, on average

\$82,878

dollars per year (2015).

Advanced industries directly account for

8.4%

of all jobs in the region.

This employment share is

#22

among all states.

This accounts for

18.4%

of all output in the region (2015).

This compares to average pay of

\$47,729

for all industries (2015).

Advanced industry annual average growth, 2013-2015

OUTPUT

JOBS

3.18%
RANK:
#16

3.91%
RANK:
#5

2.70%

2.46%

North Carolina

U.S.

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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

VIEW THE FULL REPORT

www.brookings.edu/advancedindustries

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DATA NOTES

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

North Carolina

Twenty-Five Largest Advanced Industries (2015)

There are 9 advanced industries in North Carolina 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
5415	Computer Systems Design	48,560	0.84	13.0%	9.2%	7.9%	7.1%	6.9%	9.6%
5416	Management Consulting	41,260	1.07	11.0%	5.1%	7.7%	5.6%	1.7%	7.2%
5413	Engineering	31,990	0.75	8.5%	0.2%	4.8%	4.2%	-1.5%	4.4%
3254	Pharmaceuticals	21,840	2.59	5.8%	2.1%	0.6%	19.3%	2.0%	3.4%
5417	R&D Services	19,640	0.98	5.2%	1.7%	2.0%	3.6%	2.3%	2.9%
3363	Motor Vehicle Parts	17,070	1.00	4.6%	4.8%	7.4%	3.9%	19.7%	8.5%
5182	Data Processing & Hosting	12,930	1.44	3.4%	5.5%	7.9%	2.3%	-0.2%	8.5%
5112	Software Products	12,900	1.28	3.4%	8.3%	12.5%	5.0%	9.3%	20.0%
6215	Medical and Diagnostic Laboratories	12,250	1.56	3.3%	5.5%	2.2%	1.2%	5.0%	3.0%
3345	Precision Instruments	11,370	0.94	3.0%	4.9%	2.8%	2.9%	2.9%	-4.5%
2211	Power Generation & Supply	10,860	0.91	2.9%	3.1%	2.5%	6.5%	1.5%	-4.1%
3341	Computer Equipment	10,310	2.11	2.8%	-2.2%	-1.9%	4.6%	-3.5%	-6.3%
3353	Electrical Equipment	9,330	2.16	2.5%	2.9%	2.3%	2.0%	-1.9%	4.3%
3359	Misc. Electrical Equipment	8,790	2.24	2.3%	-1.2%	-2.3%	1.7%	-6.7%	0.0%
3391	Medical Equipment & Supplies	8,350	0.90	2.2%	0.7%	-1.4%	2.2%	6.9%	2.0%
3339	General Purpose Machinery	7,690	0.95	2.1%	1.9%	4.4%	1.5%	0.3%	4.6%
3344	Semiconductors	6,770	0.61	1.8%	0.3%	-3.0%	1.9%	-0.1%	-7.4%
3399	Misc. Manufacturing	6,700	0.79	1.8%	1.9%	2.1%	1.3%	8.8%	3.9%
3361	Motor Vehicles	5,800	0.93	1.5%	10.5%	13.1%	1.9%	26.9%	13.2%
3364	Aircraft Products & Parts	5,710	0.39	1.5%	5.6%	5.4%	2.3%	23.4%	8.8%
3331	Agri., Constr., Mining Machinery	5,510	0.77	1.5%	4.9%	4.9%	1.2%	3.0%	6.5%
5172	Wireless Telecom Carriers	5,430	1.34	1.4%	-2.6%	6.7%	1.5%	-0.4%	15.2%
3336	Engine & Power Equipment	4,600	1.49	1.2%	10.3%	-0.5%	1.0%	8.6%	-2.1%
3252	Resins & Synthetic Rubbers	4,310	1.52	1.1%	-2.3%	0.3%	2.6%	-3.6%	2.1%
5179	Other telecommunications	4,060	1.65	1.1%	-0.9%	-3.8%	1.1%	-1.9%	-1.6%
IFG	Advanced industries manufacturing	169,990	1.01	45.4%	1.9%	1.6%	60.8%	2.3%	1.6%
	Advanced industries energy	10,890	0.57	2.9%	3.1%	2.4%	6.5%	1.5%	-4.0%
	Advanced industries services	193,870	0.96	51.7%	4.5%	6.2%	32.8%	3.2%	8.1%
	ADVANCED INDUSTRIES TOTAL	374,740	0.96	100.0%	3.2%	3.9%	100.0%	2.5%	3.2%

† 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.