

Bismarck, ND

Advanced industries employ

3,550

full-time workers. (2013)

These direct jobs supports an additional

2,840

indirect jobs in other industries in the region.

Advanced industries produce

\$0.5

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

Advanced industries pay, on average

\$73,900

dollars per year (2013).

Advanced industries directly account for

4.7%

of all jobs in the region.

This employment share is

#195

among all small metros.

This accounts for

7.9%

of all output in the region (2013).

This compares to average pay of

\$43,170

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

4.4%

2.7%

Bismarck, ND

U.S.

OUTPUT

7.6%

3.8%

Bismarck, ND

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.

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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
5413	Architecture & Engineering	1,250	1.76	35.2%	18.6%	25.9%	22.3%
5415	Computer Systems Design	720	0.81	20.4%	-15.2%	16.4%	-10.0%
5416	Management Consulting	620	1.00	17.5%	24.6%	13.7%	31.7%
2211	Power Generation & Supply	190	0.92	5.4%	0.5%	19.7%	5.0%
5182	Data Processing & Hosting	160	1.12	4.4%	-3.2%	1.9%	-17.5%
3399	Misc. Manufacturing	110	0.74	3.0%	5.1%	1.0%	18.1%
3344	Semiconductors	90	0.47	2.6%	5.7%	1.3%	17.2%
3331	Agri., Constr., Mining Machinery	80	0.63	2.3%	63.5%	2.9%	59.9%
5417	R&D Services	50	0.15	1.4%	-1.9%	1.5%	4.5%
5112	Software Products	40	0.26	1.2%	-3.8%	3.4%	-1.2%
5172	Wireless Telecom Carriers	30	0.39	0.9%	-3.9%	0.5%	-6.0%
3391	Medical Equipment & Supplies	30	0.19	0.8%	-2.1%	0.5%	4.2%
2111	Oil & Gas Extraction	30	0.24	0.7%	9.6%	5.1%	16.6%
3241	Petroleum & Coal Products	30	0.42	0.7%	4.4%	2.5%	-2.6%
3279	Stone & Mineral Products	20	0.55	0.6%	15.4%	0.4%	41.1%
3251	Basic Chemicals	20	0.20	0.4%	4.9%	0.9%	-8.3%
3346	Magnetic & Optical Media	20	1.48	0.4%	7.7%	0.3%	22.0%
3359	Misc. Electrical Equipment	10	0.14	0.3%	14.5%	0.1%	8.6%
6215	Medical and Diagnostic Laboratories	10	0.06	0.2%	4.6%	0.1%	1.7%
5152	Cable and Other Subscription Programming	10	0.18	0.2%	-8.0%	0.3%	4.1%
3351	Electrical Lighting Equipment	10	0.24	0.2%	14.5%	0.0%	5.4%
3271	Clay Product and Refractory Manufacturing	10	0.24	0.1%	7.7%	0.1%	10.3%
5191	Web Search Portals and Internet Publishing	10	0.05	0.1%	0.0%	0.2%	4.3%
3315	Foundries	-	0.06	0.1%	10.1%	0.0%	13.8%
3339	General Purpose Machinery	-	0.02	0.1%	-20.6%	0.1%	-29.2%
Advanced industries manufacturing		440	0.15	12.3%	10.5%	11.3%	11.8%
Advanced industries energy		220	0.64	6.1%	1.4%	24.8%	7.0%
Advanced industries services		2,900	0.89	81.7%	3.8%	63.9%	7.1%
ADVANCED INDUSTRIES TOTAL		3,550	0.55	100.0%	4.4%	100.0%	7.6%

† 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.