

Grand Forks, ND-MN

Advanced industries employ

2,000

full-time workers. (2013)

These direct jobs supports an additional

1,600

indirect jobs in other industries in the region.

Advanced industries produce

\$0.4

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

Advanced industries pay, on average

\$64,350

dollars per year (2013).

Advanced industries directly account for

3.3%

of all jobs in the region.

This employment share is

#250

among all small metros.

This accounts for

7.6%

of all output in the region (2013).

This compares to average pay of

\$35,860

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

2.7%

0.4%

Grand Forks, ND-MN

U.S.

OUTPUT

3.8%

3.2%

Grand Forks, ND-MN

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	480	0.83	24.1%	6.7%	14.3%	9.5%
2211	Power Generation & Supply	190	1.10	9.3%	6.7%	28.8%	10.8%
5416	Management Consulting	180	0.36	9.1%	1.9%	5.6%	7.4%
5415	Computer Systems Design	140	0.19	7.0%	-2.5%	4.6%	4.3%
3362	Motor Vehicle Body & Trailers	120	2.10	6.1%	-1.6%	2.4%	-2.9%
3331	Agri., Constr., Mining Machinery	100	0.92	4.9%	7.8%	4.3%	5.6%
3363	Motor Vehicle Parts	70	0.31	3.3%	0.5%	1.9%	5.7%
5417	R&D Services	60	0.23	3.1%	-19.1%	2.9%	-13.8%
3339	General Purpose Machinery	50	0.49	2.7%	-4.5%	1.4%	-5.6%
3361	Motor Vehicles	50	0.66	2.6%	-3.0%	2.5%	5.1%
3241	Petroleum & Coal Products	40	0.83	2.0%	-5.9%	6.1%	-9.1%
5172	Wireless Telecom Carriers	40	0.60	2.0%	0.8%	1.9%	4.1%
3345	Precision Instruments	40	0.22	1.9%	-3.3%	1.7%	0.9%
6215	Medical and Diagnostic Laboratories	40	0.35	1.8%	5.0%	0.8%	1.4%
3399	Misc. Manufacturing	30	0.26	1.5%	15.7%	1.1%	20.7%
3344	Semiconductors	30	0.18	1.4%	-19.2%	0.9%	-15.6%
3353	Electrical Equipment	30	0.45	1.4%	1.2%	0.8%	3.2%
3315	Foundries	30	0.48	1.3%	0.0%	0.4%	7.2%
3279	Stone & Mineral Products	20	0.77	1.1%	1.5%	0.8%	14.6%
3364	Aircraft Products & Parts	20	0.11	1.1%	-4.0%	2.1%	0.1%
3366	Ships & Boats	20	0.40	1.1%	-1.5%	1.1%	14.3%
3369	Misc. Transportation Equipment	20	1.60	1.1%	1.6%	1.5%	11.4%
5152	Cable and Other Subscription Programming	20	0.65	1.0%	-4.6%	1.3%	1.9%
3253	Pesticides & Fertilizers	20	1.18	0.9%	-3.3%	2.9%	-12.2%
3359	Misc. Electrical Equipment	20	0.35	0.9%	1.8%	0.6%	-0.3%
Advanced industries manufacturing		820	0.35	40.8%	-1.3%	36.8%	-1.7%
Advanced industries energy		190	0.69	9.5%	6.8%	29.5%	10.7%
Advanced industries services		1,000	0.37	49.7%	0.8%	33.7%	3.4%
ADVANCED INDUSTRIES TOTAL		2,000	0.38	100.0%	0.4%	100.0%	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.