

Rochester, MN

Advanced industries employ

8,030

full-time workers. (2013)

These direct jobs supports an additional

6,420

indirect jobs in other industries in the region.

Advanced industries produce

\$1.4

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

Advanced industries pay, on average

\$100,560

dollars per year (2013).

Advanced industries directly account for

6.7%

of all jobs in the region.

This employment share is

#117

among all small metros.

This accounts for

13.6%

of all output in the region (2013).

This compares to average pay of

\$47,060

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

2.7%

OUTPUT

3.8%

-0.3%

3.2%

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U.S.

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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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www.brookings.edu/advancedindustries

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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
3341	Computer Equipment	3,250	24.18	40.4%	-4.1%	37.3%	0.7%
3331	Agri., Constr., Mining Machinery	690	3.27	8.6%	3.0%	7.2%	5.3%
5415	Computer Systems Design	520	0.36	6.4%	15.7%	6.5%	15.5%
3339	General Purpose Machinery	460	2.13	5.8%	4.1%	3.2%	6.5%
3391	Medical Equipment & Supplies	330	1.28	4.1%	-1.3%	3.7%	-4.2%
3333	Commercial & Service Machinery	320	4.25	3.9%	3.0%	1.9%	5.2%
5413	Architecture & Engineering	300	0.26	3.7%	-1.0%	2.8%	-2.0%
6215	Medical and Diagnostic Laboratories	290	1.38	3.6%	2.5%	1.7%	1.8%
2211	Power Generation & Supply	210	0.61	2.6%	1.7%	7.0%	8.7%
5152	Cable and Other Subscription Programming	190	3.10	2.4%	6.4%	5.2%	10.5%
5112	Software Products	170	0.65	2.1%	8.8%	4.2%	7.5%
3332	Industrial Machinery	140	1.56	1.8%	3.5%	1.0%	6.9%
3345	Precision Instruments	100	0.29	1.2%	-2.9%	0.6%	4.1%
3369	Misc. Transportation Equipment	90	3.32	1.1%	3.2%	2.0%	10.5%
3399	Misc. Manufacturing	80	0.35	1.0%	4.0%	1.0%	1.8%
3315	Foundries	70	0.69	0.9%	0.9%	0.4%	5.0%
5416	Management Consulting	70	0.07	0.9%	-3.0%	0.8%	-4.4%
5179	Other telecommunications	60	0.86	0.8%	-11.0%	1.8%	-8.0%
3363	Motor Vehicle Parts	60	0.14	0.7%	7.9%	0.5%	11.4%
5172	Wireless Telecom Carriers	50	0.41	0.7%	-20.6%	0.8%	-18.0%
3362	Motor Vehicle Body & Trailers	50	0.42	0.6%	3.7%	0.2%	2.3%
3366	Ships & Boats	50	0.42	0.6%	2.3%	1.2%	19.9%
3254	Pharmaceuticals	40	0.19	0.5%	4.1%	1.1%	2.8%
3353	Electrical Equipment	40	0.36	0.5%	2.4%	0.3%	3.7%
3251	Basic Chemicals	40	0.34	0.5%	2.5%	1.0%	0.8%
Advanced industries manufacturing		6,060	1.30	75.4%	-1.4%	67.0%	2.2%
Advanced industries energy		230	0.43	2.9%	2.6%	8.0%	8.2%
Advanced industries services		1,740	0.33	21.7%	3.5%	25.0%	4.4%
ADVANCED INDUSTRIES TOTAL		8,030	0.77	100.0%	-0.3%	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.