

Rochester, NY

Advanced industries employ

47,730

full-time workers. (2013)

These direct jobs supports an additional

38,180

indirect jobs in other industries in the region.

Advanced industries produce

\$10.0

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

Advanced industries pay, on average

\$72,570

dollars per year (2013).

Advanced industries directly account for

9.0%

of all jobs in the region.

This employment share is

#42

among all large metros.

This accounts for

16.0%

of all output in the region (2013).

This compares to average pay of

\$43,110

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

2.7%

OUTPUT

3.8%

-0.9%

-3.7%

Rochester, NY

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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DATA NOTES

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

Rochester, NY

Twenty-Five Largest Advanced Industries (2013)

There are 9 advanced industries in Rochester, NY with LQs over 1.5. LQs over 1.5 indicate specialization †

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
3333	Commercial & Service Machinery	5,390	16.47	11.3%	-4.7%	7.4%	-2.5%
5415	Computer Systems Design	5,230	0.82	10.9%	6.0%	11.7%	6.5%
3259	Misc. Chemicals	4,940	15.82	10.3%	-11.4%	14.6%	-19.4%
5413	Architecture & Engineering	3,890	0.77	8.1%	2.2%	6.5%	1.5%
3342	Communications Equipment	3,320	8.86	6.9%	-2.8%	5.2%	2.1%
3345	Precision Instruments	3,040	2.06	6.4%	2.6%	4.5%	5.1%
5416	Management Consulting	2,490	0.56	5.2%	8.0%	4.5%	5.7%
3391	Medical Equipment & Supplies	2,470	2.16	5.2%	-1.8%	3.4%	-4.3%
3344	Semiconductors	2,330	1.66	4.9%	3.8%	3.5%	7.1%
3363	Motor Vehicle Parts	1,650	0.86	3.5%	-6.4%	2.4%	-2.0%
2211	Power Generation & Supply	1,510	1.02	3.2%	-2.7%	8.9%	-0.7%
3399	Misc. Manufacturing	1,470	1.42	3.1%	4.7%	1.5%	4.5%
5182	Data Processing & Hosting	1,190	1.18	2.5%	17.4%	1.8%	15.1%
3332	Industrial Machinery	1,150	2.88	2.4%	-4.8%	1.5%	-2.2%
5417	R&D Services	1,020	0.43	2.1%	10.3%	2.5%	14.2%
6215	Medical and Diagnostic Laboratories	1,000	1.08	2.1%	3.5%	0.9%	2.8%
3339	General Purpose Machinery	910	0.95	1.9%	13.4%	1.5%	18.2%
3353	Electrical Equipment	590	1.09	1.2%	15.3%	0.7%	8.3%
3359	Misc. Electrical Equipment	550	1.16	1.1%	-19.8%	0.4%	-25.1%
5191	Web Search Portals and Internet Publishing	370	0.50	0.8%	-12.3%	0.7%	-10.0%
5179	Other telecommunications	320	1.02	0.7%	-5.0%	1.7%	-6.2%
3251	Basic Chemicals	270	0.50	0.6%	6.6%	3.8%	-5.2%
3336	Engine & Power Equipment	260	0.68	0.5%	2.9%	0.4%	5.2%
5112	Software Products	260	0.23	0.5%	7.1%	1.8%	10.1%
3271	Clay Product and Refractory Manufacturing	230	1.58	0.5%	8.5%	0.2%	7.2%
Advanced industries manufacturing		30,120	1.47	63.1%	-3.5%	56.1%	-8.2%
Advanced industries energy		1,520	0.64	3.2%	-2.7%	8.9%	-0.7%
Advanced industries services		16,090	0.69	33.7%	5.1%	35.0%	5.1%
ADVANCED INDUSTRIES TOTAL		47,730	1.04	100.0%	-0.9%	100.0%	-3.7%

† 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.