

Erie, PA

Advanced industries employ

12,310

full-time workers. (2013)

These direct jobs supports an additional

9,850

indirect jobs in other industries in
the region.

Advanced industries produce

\$1.9

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

Advanced industries pay, on average

\$68,830

dollars per year (2013).

Advanced industries directly
account for

9.3%

of all jobs in the region.

This employment share is

#58

among all small metros.

This accounts for

15.3%

of all output in the region (2013).

This compares to average pay of

\$39,080

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

5.5%

2.7%

Erie, PA

U.S.

OUTPUT

7.2%

3.8%

Erie, PA

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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www.brookings.edu/advancedindustries

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DATA NOTES

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

Erie, PA

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
3365	Railroad Rolling Stock Manufacturing	4,800	213.36	39.0%	10.7%	33.0%	17.9%
3315	Foundries	660	5.69	5.4%	1.9%	4.4%	13.1%
3344	Semiconductors	660	1.91	5.4%	4.7%	4.9%	6.3%
3339	General Purpose Machinery	560	2.35	4.5%	3.2%	3.2%	6.6%
5413	Architecture & Engineering	530	0.42	4.3%	-0.4%	4.0%	-0.6%
6215	Medical and Diagnostic Laboratories	490	2.12	3.9%	-6.4%	2.0%	-5.2%
3364	Aircraft Products & Parts	450	0.97	3.6%	10.6%	6.1%	11.7%
5415	Computer Systems Design	440	0.28	3.5%	11.4%	4.4%	12.0%
5416	Management Consulting	340	0.31	2.8%	-1.7%	2.8%	-2.9%
3345	Precision Instruments	330	0.89	2.6%	3.0%	2.3%	5.1%
3366	Ships & Boats	270	2.26	2.2%	15.4%	1.5%	21.6%
3251	Basic Chemicals	230	1.73	1.9%	29.6%	3.9%	22.7%
3399	Misc. Manufacturing	210	0.84	1.7%	-3.2%	1.4%	0.7%
2211	Power Generation & Supply	200	0.55	1.6%	-2.9%	5.1%	-4.0%
3332	Industrial Machinery	180	1.85	1.5%	8.8%	1.3%	12.7%
3241	Petroleum & Coal Products	170	1.59	1.3%	4.9%	1.0%	-15.1%
3363	Motor Vehicle Parts	160	0.35	1.3%	-5.0%	1.0%	11.7%
3362	Motor Vehicle Body & Trailers	160	1.28	1.3%	11.5%	0.5%	36.8%
3369	Misc. Transportation Equipment	160	5.32	1.3%	10.5%	0.9%	10.0%
3359	Misc. Electrical Equipment	150	1.29	1.2%	4.3%	1.0%	1.5%
3331	Agri., Constr., Mining Machinery	130	0.54	1.0%	1.4%	0.9%	-2.0%
3336	Engine & Power Equipment	110	1.20	0.9%	1.8%	0.9%	1.6%
3254	Pharmaceuticals	110	0.44	0.9%	0.6%	3.3%	-3.7%
3313	Aluminum Products	80	1.43	0.6%	0.9%	0.9%	9.3%
5172	Wireless Telecom Carriers	70	0.49	0.6%	-4.7%	1.9%	-6.0%
Advanced industries manufacturing		10,010	1.97	81.4%	7.2%	75.9%	10.8%
Advanced industries energy		230	0.38	1.8%	-3.9%	5.8%	-2.8%
Advanced industries services		2,070	0.36	16.8%	-0.3%	18.3%	-1.3%
ADVANCED INDUSTRIES TOTAL		12,310	1.08	100.0%	5.5%	100.0%	7.2%

† 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.