

Erie, PA

Advanced industries employ

11,738

full-time workers. (2015)

These direct jobs supports an additional

9,390

indirect jobs in other industries in the region.

Advanced industries produce

\$1.9

billion dollars in output in the region. (2015, 2009 Chained)

Advanced industries pay, on average

\$78,563

dollars per year (2015).

Advanced industries directly account for

8.8%

of all jobs in the region.

This employment share is

#69

among all small metros.

This accounts for

14.6%

of all output in the region (2015).

This compares to average pay of

\$40,947

for all industries (2015).

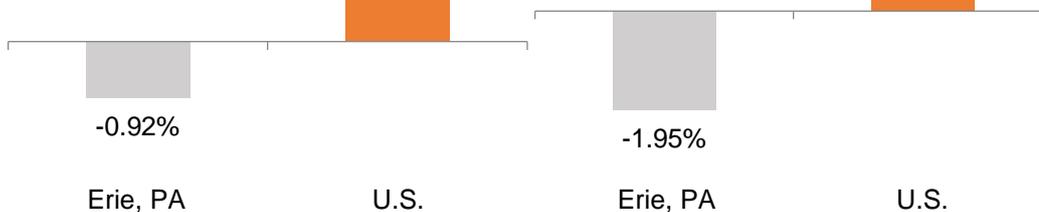
Advanced industry annual average growth, 2013-2015

OUTPUT

RANK: #228
2.70%

JOBS

RANK: #249
2.46%



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

VIEW THE FULL REPORT

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 (2015)

There are 9 advanced industries in Erie, PA with LQs over 1.5. LQs over 1.5 indicate specialization †

Industry 4-Digit NAICS Code	Industry Title	Industry Employment (2015)	Industry Location Quotient (LQ) † 2015	Industry Share of Total Advanced Industries Employment (2015)	Industry Employment Annual Growth		Industry Share of Total Advanced Industries Output (2015)	Industry Output Annual Growth	
					2010-2013	2013-2015		2010-2013	2013-2015
3365	Railroad Rolling Stock Manufacturing	4,560	177.25	38.9%	10.4%	-3.2%	35.1%	19.4%	-2.9%
3315	Foundries	650	5.75	5.5%	1.6%	-2.1%	3.8%	10.6%	-5.3%
3344	Semiconductors	620	1.87	5.3%	4.2%	-3.6%	5.9%	9.4%	1.5%
5413	Engineering	570	0.45	4.9%	-0.1%	2.0%	4.0%	-0.1%	0.2%
3339	General Purpose Machinery	540	2.24	4.6%	3.0%	-2.3%	3.2%	5.4%	-0.9%
6215	Medical and Diagnostic Laboratories	470	2.02	4.0%	-6.4%	-1.3%	2.1%	-6.4%	-4.4%
3364	Aircraft Products & Parts	430	0.96	3.6%	10.5%	-3.1%	6.2%	11.4%	-2.3%
5416	Management Consulting	380	0.33	3.2%	-1.3%	2.5%	2.7%	-2.6%	-3.9%
5415	Computer Systems Design	370	0.21	3.2%	11.7%	6.0%	3.1%	16.0%	6.2%
3345	Precision Instruments	330	0.91	2.8%	3.0%	-0.6%	2.7%	9.5%	-1.1%
3366	Ships & Boats	260	2.10	2.2%	15.0%	-3.2%	1.9%	16.7%	10.2%
3399	Misc. Manufacturing	220	0.86	1.9%	-3.5%	0.9%	1.3%	-4.8%	5.7%
2211	Power Generation & Supply	210	0.58	1.8%	-3.1%	1.5%	5.6%	-6.2%	3.4%
3332	Industrial Machinery	190	1.87	1.6%	8.5%	1.6%	1.3%	10.7%	0.3%
3363	Motor Vehicle Parts	170	0.34	1.5%	-5.2%	0.9%	1.5%	-5.6%	12.0%
3241	Petroleum & Coal Products	170	1.66	1.4%	4.6%	-0.9%	2.6%	7.3%	9.4%
3359	Misc. Electrical Equipment	150	1.31	1.3%	4.0%	0.3%	1.0%	0.1%	1.8%
3362	Motor Vehicle Body & Trailers	150	1.13	1.3%	11.1%	-3.1%	0.7%	11.4%	5.2%
3369	Misc. Transportation Equipment	150	4.94	1.3%	10.4%	-3.2%	0.8%	6.3%	6.3%
3331	Agri., Constr., Mining Machinery	130	0.59	1.1%	1.3%	-0.8%	1.0%	-0.2%	-0.1%
3251	Basic Chemicals	120	0.91	1.0%	33.3%	-10.6%	2.2%	21.4%	-6.4%
3336	Engine & Power Equipment	110	1.22	1.0%	1.2%	-0.4%	1.0%	0.6%	2.0%
3313	Aluminum Products	70	1.34	0.6%	0.4%	-4.5%	0.7%	6.0%	-2.7%
5417	R&D Services	70	0.12	0.6%	8.1%	3.7%	0.8%	10.7%	8.0%
3254	Pharmaceuticals	60	0.24	0.5%	3.8%	-10.6%	1.6%	-4.1%	-5.5%
IFG	Advanced industries manufacturing	9,470	1.88	80.7%	6.9%	-2.7%	77.7%	11.7%	-1.3%
	Advanced industries energy	220	0.38	1.9%	-5.1%	0.0%	6.1%	-5.3%	2.0%
	Advanced industries services	2,050	0.34	17.5%	-0.5%	1.6%	16.2%	-1.0%	-0.3%
	ADVANCED INDUSTRIES TOTAL	11,740	1.01	100.0%	5.3%	-1.9%	100.0%	8.0%	-0.9%

† 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.