

Springfield, IL

Advanced industries employ

4,450

full-time workers. (2013)

These direct jobs supports an additional

3,560

indirect jobs in other industries in the region.

Advanced industries produce

\$0.9

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

Advanced industries pay, on average

\$49,560

dollars per year (2013).

Advanced industries directly account for

3.9%

of all jobs in the region.

This employment share is

#224

among all small metros.

This accounts for

8.2%

of all output in the region (2013).

This compares to average pay of

\$40,410

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

2.7%

OUTPUT

3.8%

-0.9%

-0.8%

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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
5415	Computer Systems Design	890	0.66	20.0%	4.0%	18.3%	3.2%
5413	Architecture & Engineering	760	0.71	17.1%	-2.1%	12.2%	-3.9%
5416	Management Consulting	390	0.42	8.8%	4.6%	6.7%	1.2%
3353	Electrical Equipment	340	2.95	7.6%	-5.4%	4.4%	-7.3%
5179	Other telecommunications	270	4.01	6.1%	-3.1%	10.1%	-7.4%
2211	Power Generation & Supply	260	0.84	5.9%	6.4%	12.7%	0.4%
3345	Precision Instruments	200	0.63	4.4%	2.9%	4.0%	2.9%
3352	Household Appliances	170	3.68	3.8%	-5.9%	2.3%	-7.4%
3359	Misc. Electrical Equipment	150	1.51	3.4%	-8.3%	2.1%	-9.7%
5417	R&D Services	90	0.17	2.0%	-2.5%	2.2%	-2.0%
3344	Semiconductors	80	0.26	1.8%	3.2%	1.5%	7.5%
3315	Foundries	70	0.72	1.6%	-1.4%	0.5%	4.5%
3399	Misc. Manufacturing	70	0.32	1.6%	3.6%	1.0%	6.5%
6215	Medical and Diagnostic Laboratories	60	0.32	1.4%	1.6%	0.5%	0.3%
3391	Medical Equipment & Supplies	60	0.24	1.3%	-6.0%	1.3%	-3.5%
3241	Petroleum & Coal Products	60	0.63	1.3%	0.0%	6.2%	22.1%
3339	General Purpose Machinery	50	0.25	1.1%	5.2%	1.1%	12.3%
5182	Data Processing & Hosting	50	0.23	1.1%	-10.1%	0.8%	-11.9%
3311	Iron & Steel Products	40	0.61	1.0%	-2.2%	0.9%	10.0%
5112	Software Products	40	0.17	0.9%	-19.3%	1.9%	-15.9%
5172	Wireless Telecom Carriers	40	0.33	0.9%	-17.8%	1.0%	-10.0%
3342	Communications Equipment	40	0.48	0.9%	2.8%	0.8%	4.4%
2111	Oil & Gas Extraction	30	0.21	0.7%	2.1%	0.6%	5.2%
3336	Engine & Power Equipment	30	0.35	0.6%	5.3%	0.9%	9.5%
3331	Agri., Constr., Mining Machinery	30	0.13	0.6%	-2.5%	1.0%	4.5%
Advanced industries manufacturing		1,540	0.35	34.5%	-2.8%	32.2%	2.1%
Advanced industries energy		300	0.59	6.7%	5.9%	13.3%	0.6%
Advanced industries services		2,610	0.53	58.8%	-0.4%	54.4%	-2.7%
ADVANCED INDUSTRIES TOTAL		4,450	0.46	100.0%	-0.9%	100.0%	-0.8%

† 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.