

## Binghamton, NY

Advanced industries employ

**11,930**

full-time workers. (2013)

These direct jobs supports an additional

**9,540**

indirect jobs in other industries in the region.

Advanced industries produce

**\$2.2**

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

Advanced industries pay, on average

**\$77,310**

dollars per year (2013).

Advanced industries directly account for

**11.0%**

of all jobs in the region.

This employment share is

**#34**

among all small metros.

This accounts for

**18.2%**

of all output in the region (2013).

This compares to average pay of

**\$38,610**

for all industries (2013).

Advanced industry annual average growth, 2010-2013

**JOBS**

2.7%

**OUTPUT**

3.8%

-4.6%

-1.7%

Binghamton, 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.

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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
3345	Precision Instruments	3,050	10.17	25.6%	-3.4%	18.9%	0.2%
3341	Computer Equipment	1,970	16.31	16.5%	-9.6%	16.4%	-8.1%
3344	Semiconductors	1,360	4.76	11.4%	-16.7%	8.4%	-11.6%
5415	Computer Systems Design	710	0.55	5.9%	3.7%	6.7%	4.2%
5413	Architecture & Engineering	640	0.62	5.4%	-2.2%	4.5%	-2.8%
3353	Electrical Equipment	620	5.69	5.2%	11.3%	3.0%	6.9%
5417	R&D Services	590	1.22	4.9%	2.3%	6.2%	4.4%
3332	Industrial Machinery	590	7.23	4.9%	-2.0%	3.4%	-0.3%
2211	Power Generation & Supply	520	1.73	4.4%	-3.6%	15.6%	-1.6%
5182	Data Processing & Hosting	370	1.79	3.1%	5.6%	2.5%	3.6%
3359	Misc. Electrical Equipment	260	2.71	2.2%	-3.8%	1.0%	-6.6%
5416	Management Consulting	230	0.25	1.9%	6.5%	1.7%	4.1%
3391	Medical Equipment & Supplies	220	0.93	1.8%	0.3%	1.3%	-2.6%
3339	General Purpose Machinery	130	0.68	1.1%	3.5%	1.0%	7.5%
5191	Web Search Portals and Internet Publishing	80	0.55	0.7%	12.2%	0.7%	15.0%
5152	Cable and Other Subscription Programming	60	1.08	0.5%	25.3%	3.0%	36.1%
3241	Petroleum & Coal Products	60	0.65	0.5%	-4.8%	0.4%	-22.9%
5112	Software Products	50	0.22	0.4%	0.7%	1.6%	4.4%
5172	Wireless Telecom Carriers	50	0.43	0.4%	-2.5%	1.1%	-3.9%
3343	Audio & Video Equipment	50	3.05	0.4%	-9.6%	0.1%	2.5%
3363	Motor Vehicle Parts	40	0.11	0.4%	32.6%	0.2%	40.0%
3399	Misc. Manufacturing	40	0.17	0.3%	-0.9%	0.1%	-1.2%
5174	Satellite Telecommunications	30	4.76	0.3%	9.7%	0.9%	15.0%
3346	Magnetic & Optical Media	30	1.92	0.2%	-9.7%	0.1%	-3.0%
3279	Stone & Mineral Products	30	0.51	0.2%	-1.2%	0.1%	0.6%
Advanced industries manufacturing		8,580	2.06	71.9%	-6.5%	55.3%	-4.6%
Advanced industries energy		520	1.08	4.4%	-3.7%	15.6%	-1.6%
Advanced industries services		2,830	0.60	23.7%	2.2%	29.0%	4.8%
<b>ADVANCED INDUSTRIES TOTAL</b>		<b>11,930</b>	<b>1.27</b>	<b>100.0%</b>	<b>-4.6%</b>	<b>100.0%</b>	<b>-1.7%</b>

† 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.