

Ames, IA

Advanced industries employ

3,350

full-time workers. (2013)

These direct jobs supports an additional

2,680

indirect jobs in other industries in
the region.

Advanced industries produce

\$0.6

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

Advanced industries pay, on average

\$69,440

dollars per year (2013).

Advanced industries directly
account for

6.5%

of all jobs in the region.

This employment share is

#123

among all small metros.

This accounts for

12.2%

of all output in the region (2013).

This compares to average pay of

\$37,700

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

7.2%

2.7%

Ames, IA

U.S.

OUTPUT

8.8%

3.8%

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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.

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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	770	1.24	22.9%	21.3%	15.9%	23.9%
3363	Motor Vehicle Parts	380	2.05	11.4%	4.7%	7.3%	14.2%
5417	R&D Services	370	1.60	11.0%	2.0%	7.8%	1.0%
3362	Motor Vehicle Body & Trailers	360	7.21	10.6%	4.7%	7.5%	18.6%
5413	Architecture & Engineering	260	0.53	7.7%	7.2%	4.2%	8.2%
3251	Basic Chemicals	240	4.53	7.1%	9.8%	24.5%	13.5%
3331	Agri., Constr., Mining Machinery	190	2.10	5.7%	6.5%	4.5%	-3.1%
5416	Management Consulting	110	0.26	3.3%	-4.1%	2.0%	-2.2%
5112	Software Products	80	0.76	2.5%	-0.4%	4.4%	3.1%
3253	Pesticides & Fertilizers	60	4.69	1.9%	4.6%	3.4%	-0.6%
3332	Industrial Machinery	40	1.14	1.3%	-1.5%	0.8%	-10.4%
3259	Misc. Chemicals	40	1.42	1.3%	4.2%	2.6%	5.2%
3336	Engine & Power Equipment	40	1.14	1.3%	7.3%	1.0%	-7.2%
3279	Stone & Mineral Products	40	1.50	1.1%	7.0%	0.6%	7.9%
5182	Data Processing & Hosting	40	0.38	1.1%	83.4%	0.7%	84.2%
3252	Resins & Synthetic Rubbers	40	1.04	1.0%	6.5%	3.2%	13.7%
3399	Misc. Manufacturing	30	0.32	1.0%	-2.0%	0.5%	-1.8%
2211	Power Generation & Supply	30	0.22	0.9%	4.7%	2.2%	8.9%
3271	Clay Product and Refractory Manufacturing	30	2.04	0.9%	1.2%	0.4%	-3.6%
5172	Wireless Telecom Carriers	30	0.45	0.7%	6.0%	0.6%	13.4%
3333	Commercial & Service Machinery	20	0.66	0.6%	1.6%	0.3%	-16.4%
3339	General Purpose Machinery	20	0.23	0.6%	7.3%	0.3%	-3.2%
3364	Aircraft Products & Parts	20	0.09	0.5%	4.3%	0.5%	-5.7%
3254	Pharmaceuticals	20	0.16	0.5%	-12.6%	2.2%	-8.4%
3365	Railroad Rolling Stock Manufacturing	10	1.59	0.4%	5.3%	0.3%	5.4%
Advanced industries manufacturing		1,650	0.83	49.3%	4.4%	61.6%	7.6%
Advanced industries energy		30	0.13	0.9%	4.7%	2.2%	8.9%
Advanced industries services		1,670	0.74	49.8%	10.4%	36.2%	11.1%
ADVANCED INDUSTRIES TOTAL		3,350	0.75	100.0%	7.2%	100.0%	8.8%

† 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.