

## Billings, MT

Advanced industries employ

**5,230**

full-time workers. (2013)

These direct jobs supports an additional

**4,180**

indirect jobs in other industries in the region.

Advanced industries produce

**\$1.2**

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

Advanced industries pay, on average

**\$70,660**

dollars per year (2013).

Advanced industries directly account for

**6.1%**

of all jobs in the region.

This employment share is

**#136**

among all small metros.

This accounts for

**15.9%**

of all output in the region (2013).

This compares to average pay of

**\$42,380**

for all industries (2013).

Advanced industry annual average growth, 2010-2013

**JOBS**

2.7%

**OUTPUT**

5.0%

3.8%

-2.0%

Billings, MT

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
5413	Architecture & Engineering	1,400	1.73	26.8%	-2.1%	10.2%	0.2%
5415	Computer Systems Design	1,070	1.05	20.5%	-3.0%	9.8%	0.3%
3241	Petroleum & Coal Products	940	13.86	17.9%	-0.5%	58.7%	11.4%
5416	Management Consulting	310	0.44	6.0%	6.0%	2.5%	3.9%
2211	Power Generation & Supply	270	1.14	5.2%	-4.1%	5.2%	-8.6%
5172	Wireless Telecom Carriers	140	1.51	2.7%	2.8%	1.3%	7.0%
3279	Stone & Mineral Products	130	3.00	2.4%	84.2%	1.8%	55.6%
3399	Misc. Manufacturing	120	0.75	2.4%	4.4%	0.4%	-2.6%
2111	Oil & Gas Extraction	100	0.83	1.9%	13.0%	2.9%	2.6%
3331	Agri., Constr., Mining Machinery	100	0.64	1.8%	-2.3%	0.8%	-5.2%
3251	Basic Chemicals	90	1.08	1.8%	39.9%	0.6%	16.6%
6215	Medical and Diagnostic Laboratories	80	0.55	1.5%	-5.5%	0.5%	-6.1%
5182	Data Processing & Hosting	80	0.50	1.5%	-31.0%	0.6%	-36.1%
3391	Medical Equipment & Supplies	70	0.37	1.3%	2.1%	0.5%	4.4%
3253	Pesticides & Fertilizers	60	2.53	1.1%	12.5%	0.5%	-8.3%
3254	Pharmaceuticals	40	0.23	0.7%	43.0%	0.9%	31.6%
3332	Industrial Machinery	30	0.53	0.7%	-2.8%	0.1%	-18.4%
3362	Motor Vehicle Body & Trailers	30	0.37	0.6%	-17.8%	0.2%	-4.2%
5191	Web Search Portals and Internet Publishing	30	0.23	0.5%	1.3%	0.3%	27.6%
5112	Software Products	20	0.13	0.4%	-34.8%	0.5%	-28.1%
5417	R&D Services	20	0.06	0.4%	-11.7%	0.2%	-8.7%
5179	Other telecommunications	20	0.35	0.3%	-41.9%	0.6%	-28.1%
5152	Cable and Other Subscription Programming	20	0.37	0.3%	-2.0%	0.1%	-9.9%
3315	Foundries	10	0.12	0.2%	-6.5%	0.0%	9.4%
3346	Magnetic & Optical Media	10	0.78	0.2%	-3.5%	0.1%	11.1%
Advanced industries manufacturing		1,660	0.51	31.7%	3.0%	65.1%	11.2%
Advanced industries energy		370	0.97	7.1%	-0.5%	8.2%	-5.1%
Advanced industries services		3,200	0.86	61.3%	-4.4%	26.7%	-3.3%
<b>ADVANCED INDUSTRIES TOTAL</b>		<b>5,230</b>	<b>0.71</b>	<b>100.0%</b>	<b>-2.0%</b>	<b>100.0%</b>	<b>5.0%</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.