

Santa Rosa, CA

Advanced industries employ

12,820

full-time workers. (2013)

These direct jobs supports an additional

10,260

indirect jobs in other industries in
the region.

Advanced industries produce

\$3.0

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

Advanced industries pay, on average

\$84,510

dollars per year (2013).

Advanced industries directly
account for

6.7%

of all jobs in the region.

This employment share is

#116

among all small metros.

This accounts for

13.3%

of all output in the region (2013).

This compares to average pay of

\$46,990

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

2.7%

OUTPUT

3.8%

-3.6%

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U.S.

-1.4%

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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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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	1,770	3.31	13.8%	-1.3%	14.9%	4.0%
5413	Architecture & Engineering	1,730	0.95	13.5%	-8.3%	9.4%	-7.3%
3391	Medical Equipment & Supplies	1,370	3.31	10.7%	1.1%	9.1%	3.5%
5415	Computer Systems Design	1,240	0.54	9.7%	-4.7%	9.2%	-2.8%
5416	Management Consulting	1,220	0.76	9.5%	-8.6%	7.7%	-8.9%
3344	Semiconductors	750	1.48	5.9%	-3.6%	6.8%	2.5%
3333	Commercial & Service Machinery	600	5.04	4.7%	-4.3%	3.0%	-2.9%
5417	R&D Services	520	0.61	4.1%	-1.8%	4.1%	2.8%
3399	Misc. Manufacturing	370	1.00	2.9%	-3.6%	1.8%	-2.8%
2211	Power Generation & Supply	340	0.63	2.6%	-0.7%	5.7%	-1.9%
6215	Medical and Diagnostic Laboratories	330	1.00	2.6%	3.4%	1.1%	3.4%
3339	General Purpose Machinery	300	0.87	2.4%	4.0%	1.5%	5.8%
5172	Wireless Telecom Carriers	230	1.09	1.8%	83.1%	2.8%	76.4%
5179	Other telecommunications	220	1.95	1.7%	-17.8%	3.0%	-8.1%
3332	Industrial Machinery	200	1.39	1.6%	10.5%	1.2%	15.8%
3343	Audio & Video Equipment	200	7.49	1.5%	0.2%	1.5%	-0.3%
3271	Clay Product and Refractory Manufacturing	150	2.90	1.2%	-7.1%	0.5%	-5.4%
3254	Pharmaceuticals	130	0.34	1.0%	12.7%	3.1%	14.5%
3331	Agri., Constr., Mining Machinery	120	0.35	0.9%	-1.4%	0.5%	3.7%
5191	Web Search Portals and Internet Publishing	120	0.44	0.9%	10.0%	1.4%	11.2%
3363	Motor Vehicle Parts	100	0.15	0.8%	-7.6%	0.6%	-2.7%
3342	Communications Equipment	100	0.73	0.8%	-6.2%	0.9%	-3.8%
3253	Pesticides & Fertilizers	100	1.91	0.8%	14.9%	1.2%	11.6%
5112	Software Products	80	0.20	0.6%	-11.0%	2.5%	-3.3%
3341	Computer Equipment	80	0.35	0.6%	-17.6%	1.2%	-12.7%
Advanced industries manufacturing		6,660	0.90	51.9%	-1.9%	50.4%	1.5%
Advanced industries energy		360	0.42	2.8%	-3.6%	6.8%	-11.3%
Advanced industries services		5,800	0.69	45.3%	-5.5%	42.8%	-2.7%
ADVANCED INDUSTRIES TOTAL		12,820	0.77	100.0%	-3.6%	100.0%	-1.4%

† 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.