

Portland, OR-WA

Advanced industries employ

115,920

full-time workers. (2013)

These direct jobs supports an additional

92,740

indirect jobs in other industries in the region.

Advanced industries produce

\$58.9

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

Advanced industries pay, on average

\$89,890

dollars per year (2013).

Advanced industries directly

account for

10.8%

of all jobs in the region.

This employment share is

#17

among all large metros.

This accounts for

39.5%

of all output in the region (2013).

This compares to average pay of

\$52,770

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

3.7%

2.7%

Portland, OR-WA

U.S.

OUTPUT

7.0%

3.8%

Portland, OR-WA

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.

Portland, OR-WA

Twenty-Five Largest Advanced Industries (2013)

There are 12 advanced industries in Portland, OR-WA with LQs over 1.5. LQs over 1.5 indicate specialization †

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
3344	Semiconductors	27,790	9.85	24.0%	2.8%	60.2%	8.7%
5415	Computer Systems Design	11,440	0.89	9.9%	11.4%	3.0%	12.3%
5413	Architecture & Engineering	11,070	1.09	9.6%	2.3%	2.2%	3.1%
5416	Management Consulting	9,110	1.02	7.9%	15.7%	1.9%	14.2%
5112	Software Products	6,660	2.96	5.7%	1.4%	3.0%	3.1%
3345	Precision Instruments	4,800	1.62	4.1%	1.1%	10.8%	6.1%
3315	Foundries	4,360	4.61	3.8%	3.8%	0.8%	17.8%
3391	Medical Equipment & Supplies	3,440	1.50	3.0%	1.5%	0.7%	4.0%
5417	R&D Services	3,080	0.64	2.7%	-3.4%	0.8%	-2.4%
3332	Industrial Machinery	2,770	3.45	2.4%	3.5%	0.7%	5.5%
3399	Misc. Manufacturing	2,390	1.15	2.1%	1.7%	0.4%	5.0%
5182	Data Processing & Hosting	2,360	1.17	2.0%	-4.4%	0.8%	-5.0%
3364	Aircraft Products & Parts	2,330	0.62	2.0%	5.8%	0.8%	8.5%
3339	General Purpose Machinery	2,320	1.20	2.0%	7.4%	0.5%	10.6%
3341	Computer Equipment	2,030	1.71	1.8%	-5.4%	6.4%	-3.3%
6215	Medical and Diagnostic Laboratories	1,730	0.93	1.5%	-5.7%	0.3%	-2.1%
3363	Motor Vehicle Parts	1,460	0.38	1.3%	-0.9%	0.3%	10.6%
2211	Power Generation & Supply	1,370	0.46	1.2%	1.8%	1.8%	13.5%
3333	Commercial & Service Machinery	1,340	2.04	1.2%	3.9%	0.3%	5.7%
3254	Pharmaceuticals	1,270	0.61	1.1%	4.0%	0.5%	4.0%
3359	Misc. Electrical Equipment	1,200	1.27	1.0%	6.6%	0.3%	2.7%
3366	Ships & Boats	1,150	1.19	1.0%	13.1%	0.1%	7.8%
3311	Iron & Steel Products	1,050	1.53	0.9%	3.5%	0.3%	17.7%
3361	Motor Vehicles	830	0.59	0.7%	2.1%	0.2%	11.9%
5191	Web Search Portals and Internet Publishing	770	0.52	0.7%	13.8%	0.2%	6.1%
Advanced industries manufacturing		66,790	1.62	57.6%	2.9%	85.5%	7.1%
Advanced industries energy		1,380	0.29	1.2%	1.7%	1.8%	13.5%
Advanced industries services		47,750	1.02	41.2%	5.0%	12.6%	5.1%
ADVANCED INDUSTRIES TOTAL		115,920	1.25	100.0%	3.7%	100.0%	7.0%

† 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.