

Portland, OR-WA

Advanced industries employ

125,849

full-time workers. (2015)

These direct jobs supports an additional

100,680

indirect jobs in other industries in
the region.

Advanced industries produce

\$56.0

billion dollars in output in the region.
(2015, 2009 Chained)

Advanced industries pay, on average

\$95,213

dollars per year (2015).

Advanced industries directly
account for

11.0%

of all jobs in the region.

This employment share is

#15

among all large metros.

This accounts for

37.1%

of all output in the region (2015).

This compares to average pay of

\$55,807

for all industries (2015).

Advanced industry annual average growth, 2013-2015

OUTPUT

JOB

7.60%

RANK:
#9

3.60%

RANK:
#28

2.70%

2.46%

Portland, OR-WA

U.S.

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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

VIEW THE FULL REPORT

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 (2015)

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 (2015)	Industry Location Quotient (LQ) † 2015	Industry Share of Total Advanced Industries Employment (2015)	Industry Employment Annual Growth		Industry Share of Total Advanced Industries Output (2015)	Industry Output Annual Growth	
					2010-2013	2013-2015		2010-2013	2013-2015
3344	Semiconductors	29,720	10.41	23.6%	2.9%	3.3%	60.8%	-0.1%	10.6%
5415	Computer Systems Design	13,410	0.91	10.7%	11.5%	6.0%	3.2%	12.8%	7.1%
5413	Engineering	12,080	1.11	9.6%	2.2%	4.2%	2.3%	1.3%	3.2%
5416	Management Consulting	10,380	1.05	8.2%	16.1%	5.4%	2.2%	11.9%	5.4%
5112	Software Products	7,710	2.99	6.1%	1.6%	6.6%	3.8%	3.4%	7.9%
3345	Precision Instruments	4,680	1.51	3.7%	1.1%	-1.5%	9.4%	-2.6%	3.6%
3315	Foundries	3,990	4.15	3.2%	4.1%	-4.1%	0.8%	26.9%	-8.8%
5417	R&D Services	3,450	0.67	2.7%	-3.1%	4.5%	1.0%	-3.4%	6.2%
3391	Medical Equipment & Supplies	3,390	1.42	2.7%	1.3%	-0.6%	0.7%	1.4%	4.6%
5182	Data Processing & Hosting	3,300	1.43	2.6%	-3.9%	5.6%	1.0%	-9.0%	11.5%
3332	Industrial Machinery	3,280	3.74	2.6%	3.7%	9.0%	0.7%	-1.4%	5.3%
3364	Aircraft Products & Parts	2,550	0.67	2.0%	5.9%	4.4%	0.9%	15.9%	6.9%
3399	Misc. Manufacturing	2,530	1.16	2.0%	1.7%	2.8%	0.4%	2.4%	3.4%
3339	General Purpose Machinery	2,440	1.18	1.9%	7.4%	2.8%	0.4%	5.0%	-0.9%
6215	Medical and Diagnostic Laboratories	2,020	1.01	1.6%	-5.5%	5.9%	0.3%	-3.2%	1.2%
3363	Motor Vehicle Parts	1,690	0.39	1.3%	-0.7%	7.2%	0.3%	8.2%	7.4%
3341	Computer Equipment	1,680	1.33	1.3%	-5.9%	-8.7%	4.9%	-11.1%	-2.7%
3254	Pharmaceuticals	1,360	0.63	1.1%	4.7%	0.7%	0.5%	0.4%	0.2%
2211	Power Generation & Supply	1,350	0.44	1.1%	1.4%	-0.1%	1.7%	13.1%	-6.7%
3333	Commercial & Service Machinery	1,340	1.93	1.1%	3.9%	0.0%	0.2%	0.6%	-5.1%
3366	Ships & Boats	1,290	1.24	1.0%	13.3%	5.6%	0.2%	20.7%	17.4%
3359	Misc. Electrical Equipment	1,200	1.19	1.0%	6.4%	2.6%	0.2%	-4.7%	-0.4%
3311	Iron & Steel Products	1,060	1.53	0.8%	3.8%	-3.4%	0.3%	21.3%	-10.2%
3361	Motor Vehicles	1,030	0.65	0.8%	2.3%	11.1%	0.2%	8.4%	6.6%
5191	Web Search Portals and Internet Publishing	970	0.51	0.8%	14.2%	0.7%	0.2%	5.5%	8.0%
IFG	Advanced industries manufacturing	69,790	1.61	55.5%	2.9%	2.3%	83.6%	-0.9%	8.0%
	Advanced industries energy	1,360	0.28	1.1%	1.3%	0.0%	1.7%	13.1%	-6.7%
	Advanced industries services	54,700	1.06	43.5%	5.1%	5.5%	14.8%	4.0%	7.2%
ADVANCED INDUSTRIES TOTAL		125,850	1.26	100.0%	3.8%	3.6%	100.0%	0.0%	7.6%

† 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.