

Washington

Advanced industries employ

385,673

full-time workers. (2015)

These direct jobs supports an additional

308,540

indirect jobs in other industries in the region.

Advanced industries produce

\$101.2

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

Advanced industries pay, on average

\$110,171

dollars per year (2015).

Advanced industries directly account for

11.5%

of all jobs in the region.

This employment share is

#3

among all states.

This accounts for

25.2%

of all output in the region (2015).

This compares to average pay of

\$56,952

for all industries (2015).

Advanced industry annual average growth, 2013-2015

OUTPUT

JOB

4.44% RANK:
#6

2.70%

2.46% RANK:
#24

2.32%

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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

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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.

Washington

Twenty-Five Largest Advanced Industries (2015)

There are 6 advanced industries in Washington 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
3364	Aircraft Products & Parts	93,840	8.41	24.3%	6.0%	-1.2%	26.1%	2.9%	-0.7%
5112	Software Products	56,010	7.38	14.5%	1.9%	1.9%	33.1%	7.4%	10.1%
5415	Computer Systems Design	47,840	1.10	12.4%	8.0%	6.2%	6.9%	6.9%	8.5%
5413	Engineering	34,740	1.08	9.0%	0.2%	0.4%	4.6%	-1.0%	1.0%
5416	Management Consulting	22,570	0.77	5.9%	10.6%	10.2%	3.1%	7.6%	11.3%
5417	R&D Services	18,320	1.22	4.8%	-2.4%	-1.3%	3.4%	-1.3%	1.0%
5191	Web Search Portals and Internet Publishing	12,530	2.26	3.2%	17.5%	18.6%	2.7%	18.4%	19.6%
5172	Wireless Telecom Carriers	10,250	3.35	2.7%	-7.2%	0.2%	3.8%	-3.4%	8.0%
3345	Precision Instruments	9,630	1.06	2.5%	0.5%	0.3%	1.8%	6.5%	-8.2%
5182	Data Processing & Hosting	7,700	1.13	2.0%	6.2%	21.4%	1.0%	-0.7%	23.9%
3399	Misc. Manufacturing	7,300	1.14	1.9%	0.7%	2.5%	0.6%	0.6%	-0.2%
3344	Semiconductors	6,810	0.81	1.8%	4.1%	2.9%	1.3%	12.0%	-3.4%
6215	Medical and Diagnostic Laboratories	5,640	0.95	1.5%	-2.1%	2.3%	0.5%	-2.6%	2.9%
3339	General Purpose Machinery	5,570	0.92	1.4%	12.2%	3.4%	0.5%	-5.2%	1.7%
3366	Ships & Boats	4,930	1.61	1.3%	-1.0%	0.0%	0.9%	-4.3%	0.2%
3391	Medical Equipment & Supplies	4,020	0.57	1.0%	-1.6%	1.9%	0.4%	-2.2%	0.9%
3353	Electrical Equipment	3,070	0.94	0.8%	12.8%	2.8%	0.3%	9.9%	5.4%
3332	Industrial Machinery	2,890	1.12	0.7%	4.1%	2.8%	0.3%	-12.4%	3.1%
2211	Power Generation & Supply	2,820	0.31	0.7%	-2.5%	3.0%	2.1%	-2.9%	-1.7%
3254	Pharmaceuticals	2,680	0.42	0.7%	5.2%	4.5%	0.6%	0.7%	1.5%
3363	Motor Vehicle Parts	2,580	0.20	0.7%	9.2%	7.1%	0.4%	3.6%	5.1%
3241	Petroleum & Coal Products	2,450	0.98	0.6%	0.8%	-0.9%	2.0%	-20.0%	7.7%
3313	Aluminum Products	2,270	1.67	0.6%	6.2%	1.0%	0.3%	10.8%	-4.2%
3341	Computer Equipment	2,080	0.56	0.5%	1.7%	-10.3%	0.7%	8.4%	-15.8%
3315	Foundries	1,970	0.69	0.5%	7.1%	-3.7%	0.2%	12.0%	-9.1%
IFG	Advanced industries manufacturing	166,000	1.31	43.0%	4.8%	-0.2%	38.4%	1.1%	-1.1%
	Advanced industries energy	2,950	0.21	0.8%	-2.5%	3.4%	2.2%	-2.7%	-1.0%
	Advanced industries services	216,730	1.42	56.2%	3.0%	4.3%	59.4%	5.1%	8.8%
	ADVANCED INDUSTRIES TOTAL	385,670	1.31	100.0%	3.7%	2.3%	100.0%	3.1%	4.4%

† 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.