

## Washington

Advanced industries employ

**367,820**

full-time workers. (2013)

These direct jobs supports an additional

**294,260**

indirect jobs in other industries in  
the region.

Advanced industries produce

**\$96.4**

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

Advanced industries pay, on average

**\$103,700**

dollars per year (2013).

Advanced industries directly  
account for

**11.6%**

of all jobs in the region.

This employment share is

**#2**

among all states.

This accounts for

**25.3%**

of all output in the region (2013).

This compares to average pay of

**\$53,700**

for all industries (2013).

Advanced industry annual average growth, 2010-2013

**JOBS**

3.7%

2.7%

Washington

U.S.

**OUTPUT**

4.6%

3.8%

Washington

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)

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 (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
3364	Aircraft Products & Parts	96,090	8.62	26.1%	6.0%	31.3%	8.1%
5112	Software Products	53,830	8.05	14.6%	1.9%	27.0%	5.4%
5415	Computer Systems Design	42,130	1.10	11.5%	7.8%	7.3%	8.0%
5413	Architecture & Engineering	34,580	1.15	9.4%	0.4%	4.9%	0.0%
5417	R&D Services	18,720	1.32	5.1%	-2.5%	3.6%	-0.8%
5416	Management Consulting	18,510	0.70	5.0%	10.4%	2.7%	8.5%
5172	Wireless Telecom Carriers	10,220	2.96	2.8%	-7.2%	3.0%	-4.2%
3345	Precision Instruments	9,580	1.09	2.6%	0.5%	2.0%	2.0%
5191	Web Search Portals and Internet Publishing	8,910	2.03	2.4%	17.5%	2.1%	20.2%
3399	Misc. Manufacturing	6,910	1.12	1.9%	0.5%	0.7%	3.6%
3344	Semiconductors	6,430	0.77	1.7%	4.1%	1.3%	7.3%
6215	Medical and Diagnostic Laboratories	5,370	0.97	1.5%	-2.2%	0.5%	-1.4%
5182	Data Processing & Hosting	5,220	0.87	1.4%	6.2%	0.7%	1.7%
3339	General Purpose Machinery	5,180	0.90	1.4%	12.0%	0.9%	10.1%
3366	Ships & Boats	4,910	1.71	1.3%	-1.1%	1.0%	-0.7%
3391	Medical Equipment & Supplies	3,850	0.56	1.0%	-1.7%	0.5%	0.7%
3353	Electrical Equipment	2,890	0.90	0.8%	12.7%	0.3%	9.0%
3332	Industrial Machinery	2,720	1.14	0.7%	3.9%	0.5%	1.8%
2211	Power Generation & Supply	2,650	0.30	0.7%	-2.7%	2.4%	-1.9%
3341	Computer Equipment	2,590	0.73	0.7%	1.7%	0.8%	3.6%
3241	Petroleum & Coal Products	2,490	0.99	0.7%	0.7%	1.9%	-18.0%
3254	Pharmaceuticals	2,440	0.39	0.7%	5.1%	0.7%	4.0%
3363	Motor Vehicle Parts	2,240	0.20	0.6%	9.0%	0.4%	10.4%
3313	Aluminum Products	2,210	1.68	0.6%	5.9%	0.3%	13.2%
3315	Foundries	2,100	0.75	0.6%	6.9%	0.3%	13.8%
Advanced industries manufacturing		166,280	1.36	45.2%	4.7%	45.4%	5.2%
Advanced industries energy		2,740	0.19	0.7%	-2.6%	2.5%	-1.6%
Advanced industries services		198,790	1.43	54.0%	2.9%	52.2%	4.5%
<b>ADVANCED INDUSTRIES TOTAL</b>		<b>367,820</b>	<b>1.34</b>	<b>100.0%</b>	<b>3.7%</b>	<b>100.0%</b>	<b>4.6%</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.