

## Utah

Advanced industries employ

**146,826**

full-time workers. (2015)

These direct jobs supports an additional

**117,460**

indirect jobs in other industries in the region.

Advanced industries produce

**\$22.9**

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

Advanced industries pay, on average

**\$72,602**

dollars per year (2015).

Advanced industries directly account for

**10.4%**

of all jobs in the region.

This employment share is

**#6**

among all states.

This accounts for

**17.4%**

of all output in the region (2015).

This compares to average pay of

**\$45,591**

for all industries (2015).

Advanced industry annual average growth, 2013-2015

### OUTPUT

### JOBS

5.02%

RANK:  
**#4**

2.70%

3.47%

RANK:  
**#7**

2.46%

Utah

U.S.

Utah

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.

## Twenty-Five Largest Advanced Industries (2015)

There are 12 advanced industries in Utah 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
5415	Computer Systems Design	22,800	1.24	15.5%	8.8%	9.1%	11.2%	9.7%	9.8%
5413	Engineering	13,860	1.02	9.4%	3.1%	2.8%	5.7%	0.7%	0.9%
5416	Management Consulting	10,900	0.89	7.4%	8.7%	4.1%	4.6%	4.5%	2.1%
3391	Medical Equipment & Supplies	10,090	3.42	6.9%	4.7%	5.4%	5.7%	4.5%	9.5%
5112	Software Products	8,740	2.73	5.9%	7.6%	8.8%	10.8%	12.8%	13.6%
3399	Misc. Manufacturing	8,060	2.98	5.5%	3.1%	1.2%	3.4%	3.5%	3.3%
3345	Precision Instruments	7,020	1.83	4.8%	4.1%	-5.4%	4.4%	3.0%	-3.5%
3254	Pharmaceuticals	6,310	2.35	4.3%	4.8%	7.4%	3.7%	-21.1%	7.3%
3364	Aircraft Products & Parts	5,660	1.20	3.9%	-4.5%	5.7%	4.6%	-3.3%	5.0%
5182	Data Processing & Hosting	5,520	1.92	3.8%	-1.4%	-6.8%	2.5%	-10.0%	4.8%
5417	R&D Services	5,020	0.79	3.4%	3.6%	1.9%	2.9%	3.5%	1.1%
3363	Motor Vehicle Parts	3,910	0.72	2.7%	5.8%	5.3%	1.8%	4.7%	2.4%
3344	Semiconductors	3,840	1.08	2.6%	1.1%	-2.0%	2.5%	1.6%	2.5%
5191	Web Search Portals and Internet Publishing	3,750	1.60	2.6%	12.4%	2.4%	1.6%	14.1%	-4.4%
6215	Medical and Diagnostic Laboratories	3,710	1.48	2.5%	0.1%	2.3%	1.1%	1.8%	1.0%
2211	Power Generation & Supply	2,750	0.72	1.9%	-1.0%	0.1%	3.4%	-7.7%	-7.3%
3339	General Purpose Machinery	2,240	0.87	1.5%	2.8%	7.6%	1.0%	14.5%	6.3%
5179	Other telecommunications	2,130	2.71	1.4%	3.4%	7.8%	2.1%	1.7%	7.7%
2111	Oil & Gas Extraction	1,760	0.94	1.2%	9.6%	-2.7%	6.9%	4.7%	12.0%
2122	Metal Ore Mining	1,660	4.24	1.1%	6.5%	-4.4%	2.3%	-2.6%	1.0%
3361	Motor Vehicles	1,550	0.78	1.1%	0.5%	7.7%	1.0%	-0.1%	3.6%
3362	Motor Vehicle Body & Trailers	1,540	1.06	1.0%	11.9%	14.7%	0.6%	7.9%	13.5%
3279	Stone & Mineral Products	1,520	2.13	1.0%	13.4%	-3.3%	0.9%	15.1%	-1.7%
3241	Petroleum & Coal Products	1,480	1.40	1.0%	4.8%	2.3%	6.6%	13.3%	6.5%
3251	Basic Chemicals	1,130	0.79	0.8%	1.8%	4.1%	0.5%	-24.0%	1.7%
IFG	Advanced industries manufacturing	63,320	1.18	43.1%	2.9%	2.8%	44.0%	-2.3%	4.0%
	Advanced industries energy	6,160	1.02	4.2%	3.8%	-2.0%	12.6%	-1.6%	3.7%
	Advanced industries services	77,350	1.21	52.7%	5.5%	4.5%	43.5%	5.4%	6.4%
<b>ADVANCED INDUSTRIES TOTAL</b>		<b>146,830</b>	<b>1.19</b>	<b>100.0%</b>	<b>4.3%</b>	<b>3.5%</b>	<b>100.0%</b>	<b>0.8%</b>	<b>5.0%</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.