

Boulder, CO

Advanced industries employ

38,130

full-time workers. (2015)

These direct jobs supports an additional

30,500

indirect jobs in other industries in the region.

Advanced industries produce

\$7.4

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

Advanced industries pay, on average

\$106,288

dollars per year (2015).

Advanced industries directly account for

20.9%

of all jobs in the region.

This employment share is

#5

among all small metros.

This accounts for

35.7%

of all output in the region (2015).

This compares to average pay of

\$61,648

for all industries (2015).

Advanced industry annual average growth, 2013-2015

OUTPUT

RANK:
#119

2.70%

JOBS

RANK:
#161

2.46%

2.66%

1.15%

Boulder, CO

U.S.

Boulder, CO

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

SEE THE INTERACTIVE

www.brookings.edu/advancedindustries

FOLLOW US ON TWITTER

@BrookingsMetro | @MarkMuro1 | #AdvIndustries

DATA NOTES

All figures reflect Brookings analysis of data from Moody's Analytics.

Boulder, CO

Twenty-Five Largest Advanced Industries (2015)

There are 17 advanced industries in Boulder, CO 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	8,210	3.47	21.5%	7.8%	6.5%	15.0%	9.5%	7.6%
5417	R&D Services	5,700	6.94	14.9%	1.2%	3.2%	12.3%	-0.3%	2.4%
3345	Precision Instruments	5,500	11.09	14.4%	5.6%	-0.4%	17.0%	7.2%	4.4%
5413	Engineering	4,010	2.29	10.5%	5.1%	0.0%	6.4%	2.0%	0.1%
5112	Software Products	3,710	8.98	9.7%	-7.0%	-4.9%	15.6%	-1.7%	-4.8%
5416	Management Consulting	2,700	1.70	7.1%	10.2%	5.8%	4.4%	5.6%	3.7%
3344	Semiconductors	1,130	2.46	3.0%	11.0%	1.7%	4.0%	14.2%	8.3%
3254	Pharmaceuticals	1,070	3.08	2.8%	-5.9%	-9.5%	4.6%	-18.4%	-4.4%
3341	Computer Equipment	860	4.27	2.3%	3.2%	5.8%	5.3%	6.5%	12.5%
5182	Data Processing & Hosting	730	1.98	1.9%	6.8%	-9.5%	1.6%	3.3%	-3.8%
3399	Misc. Manufacturing	660	1.87	1.7%	14.7%	6.2%	1.3%	5.7%	13.8%
3342	Communications Equipment	540	4.95	1.4%	4.3%	-1.2%	1.9%	7.2%	12.7%
3333	Commercial & Service Machinery	470	4.25	1.2%	-1.8%	2.4%	0.6%	0.4%	-6.1%
5191	Web Search Portals and Internet Publishing	450	1.50	1.2%	10.5%	13.0%	0.9%	6.8%	14.6%
3391	Medical Equipment & Supplies	310	0.82	0.8%	-5.8%	-6.2%	0.8%	-13.5%	-1.0%
3359	Misc. Electrical Equipment	260	1.58	0.7%	22.4%	-5.6%	0.5%	20.2%	-7.4%
3353	Electrical Equipment	240	1.33	0.6%	40.1%	-8.5%	0.5%	40.8%	-9.7%
2211	Power Generation & Supply	210	0.43	0.6%	-6.7%	4.2%	1.3%	-1.7%	0.1%
3336	Engine & Power Equipment	160	1.27	0.4%	1.8%	3.3%	0.3%	-11.1%	12.8%
3346	Magnetic & Optical Media	150	7.13	0.4%	-17.3%	6.3%	0.5%	-5.6%	7.4%
5152	Cable and Other Subscription Programming	120	1.58	0.3%	-2.4%	2.1%	0.5%	2.2%	-3.5%
6215	Medical and Diagnostic Laboratories	110	0.34	0.3%	17.4%	10.2%	0.1%	17.9%	2.6%
5179	Other telecommunications	100	0.98	0.3%	-6.2%	-8.4%	1.1%	-2.0%	-6.5%
3363	Motor Vehicle Parts	100	0.14	0.3%	10.8%	35.3%	0.1%	2.3%	-2.6%
3332	Industrial Machinery	90	0.67	0.2%	8.4%	0.5%	0.1%	-6.5%	0.8%
IFG	Advanced industries manufacturing	11,990	1.73	31.4%	4.3%	-0.7%	38.6%	0.9%	4.5%
	Advanced industries energy	270	0.35	0.7%	-2.2%	8.0%	2.1%	5.1%	8.7%
	Advanced industries services	25,870	3.12	67.8%	3.1%	2.0%	59.4%	2.4%	1.3%
	ADVANCED INDUSTRIES TOTAL	38,130	2.39	100.0%	3.4%	1.1%	100.0%	1.9%	2.7%

† 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.