

Boston, MA-NH

Advanced industries employ

338,900

full-time workers. (2013)

These direct jobs supports an additional

271,120

indirect jobs in other industries in
the region.

Advanced industries produce

\$75.1

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

Advanced industries pay, on average

\$117,330

dollars per year (2013).

Advanced industries directly

account for

13.3%

of all jobs in the region.

This employment share is

#8

among all large metros.

This accounts for

22.8%

of all output in the region (2013).

This compares to average pay of

\$67,370

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

2.4%

2.7%

OUTPUT

3.2%

3.8%

Boston, MA-NH

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.

Boston, MA-NH

Twenty-Five Largest Advanced Industries (2013)

There are 14 advanced industries in Boston, MA-NH 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
5415	Computer Systems Design	64,900	2.12	19.1%	7.4%	17.1%	8.6%
5417	R&D Services	46,050	4.03	13.6%	2.2%	13.6%	5.0%
5416	Management Consulting	37,160	1.74	11.0%	3.2%	8.3%	2.3%
5413	Architecture & Engineering	31,170	1.29	9.2%	0.1%	6.6%	0.5%
5112	Software Products	25,750	4.79	7.6%	3.8%	12.7%	2.8%
3345	Precision Instruments	22,980	3.24	6.8%	-1.1%	7.1%	0.5%
3344	Semiconductors	13,000	1.93	3.8%	-3.5%	3.9%	-0.6%
3364	Aircraft Products & Parts	10,610	1.18	3.1%	-1.5%	2.2%	-2.9%
3341	Computer Equipment	10,380	3.65	3.1%	2.2%	5.2%	3.7%
3254	Pharmaceuticals	9,040	1.82	2.7%	5.4%	5.2%	3.5%
5191	Web Search Portals and Internet Publishing	8,600	2.43	2.5%	8.3%	2.0%	4.3%
5182	Data Processing & Hosting	7,450	1.55	2.2%	2.8%	1.8%	1.9%
3391	Medical Equipment & Supplies	7,390	1.34	2.2%	-0.4%	2.0%	-0.3%
2211	Power Generation & Supply	4,460	0.63	1.3%	0.4%	3.4%	2.7%
3332	Industrial Machinery	4,180	2.18	1.2%	1.2%	0.8%	4.2%
6215	Medical and Diagnostic Laboratories	4,040	0.91	1.2%	2.0%	0.6%	3.4%
3399	Misc. Manufacturing	3,880	0.78	1.1%	2.2%	0.8%	3.7%
3339	General Purpose Machinery	2,930	0.64	0.9%	-1.8%	0.5%	1.5%
3359	Misc. Electrical Equipment	2,830	1.25	0.8%	-0.6%	0.5%	-5.3%
3333	Commercial & Service Machinery	2,650	1.68	0.8%	-2.7%	0.4%	-2.4%
5179	Other telecommunications	2,400	1.58	0.7%	13.8%	0.7%	15.4%
3342	Communications Equipment	2,260	1.26	0.7%	-5.5%	0.7%	-1.8%
5172	Wireless Telecom Carriers	2,110	0.76	0.6%	-2.9%	0.6%	1.5%
3343	Audio & Video Equipment	2,030	5.82	0.6%	2.8%	0.5%	4.8%
3252	Resins & Synthetic Rubbers	1,450	0.87	0.4%	-2.6%	0.6%	-6.4%
Advanced industries manufacturing		103,920	1.06	30.7%	-0.5%	32.3%	0.7%
Advanced industries energy		4,460	0.39	1.3%	0.4%	3.4%	2.7%
Advanced industries services		230,520	2.07	68.0%	3.9%	64.2%	4.5%
ADVANCED INDUSTRIES TOTAL		338,900	1.53	100.0%	2.4%	100.0%	3.2%

† 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.