

Worcester, MA-CT

Advanced industries employ

32,131

full-time workers. (2015)

These direct jobs supports an additional

25,700

indirect jobs in other industries in the region.

Advanced industries produce

\$7.8

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

Advanced industries pay, on average

\$96,820

dollars per year (2015).

Advanced industries directly account for

8.2%

of all jobs in the region.

This employment share is

#53

among all large metros.

This accounts for

18.8%

of all output in the region (2015).

This compares to average pay of

\$50,602

for all industries (2015).

Advanced industry annual average growth, 2013-2015

OUTPUT

JOBS

7.72%

RANK:
#8

2.70%

3.80%

RANK:
#24

2.46%

Worcester, MA-CT

U.S.

Worcester, MA-CT

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.

Worcester, MA-CT

Twenty-Five Largest Advanced Industries (2015)

There are 13 advanced industries in Worcester, MA-CT 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	4,540	0.89	14.1%	8.8%	-0.2%	11.8%	9.0%	5.2%
5417	R&D Services	2,710	1.54	8.4%	5.0%	5.6%	7.3%	8.9%	5.0%
3344	Semiconductors	2,440	2.49	7.6%	-1.2%	8.0%	7.0%	-0.3%	13.8%
5416	Management Consulting	2,250	0.66	7.0%	4.4%	5.9%	4.9%	3.9%	6.9%
5413	Engineering	1,880	0.50	5.9%	-6.3%	3.1%	3.7%	-1.5%	2.6%
3345	Precision Instruments	1,870	1.76	5.8%	-7.6%	1.4%	5.4%	-0.4%	7.6%
3359	Misc. Electrical Equipment	1,700	4.90	5.3%	2.4%	6.1%	3.6%	3.3%	4.2%
3254	Pharmaceuticals	1,610	2.16	5.0%	-16.1%	54.4%	10.2%	-16.6%	39.1%
2211	Power Generation & Supply	1,390	1.32	4.3%	1.1%	10.6%	9.4%	7.4%	2.8%
3341	Computer Equipment	990	2.29	3.1%	-2.2%	-7.3%	10.4%	4.2%	8.6%
3279	Stone & Mineral Products	940	4.74	2.9%	-4.2%	2.0%	1.5%	1.5%	0.4%
3333	Commercial & Service Machinery	870	3.68	2.7%	5.9%	-4.1%	1.6%	-5.4%	1.4%
3259	Misc. Chemicals	820	3.76	2.5%	-1.5%	15.0%	2.2%	-3.5%	10.8%
3339	General Purpose Machinery	760	1.07	2.4%	13.0%	9.0%	1.3%	8.8%	6.2%
5112	Software Products	710	0.80	2.2%	7.4%	-9.0%	4.4%	5.1%	-6.5%
3391	Medical Equipment & Supplies	670	0.81	2.1%	-16.5%	-2.5%	1.9%	-16.1%	1.9%
6215	Medical and Diagnostic Laboratories	590	0.86	1.8%	6.1%	-15.2%	0.9%	8.6%	-7.5%
3271	Clay Product and Refractory Manufacturing	550	5.18	1.7%	31.6%	-2.9%	0.8%	23.7%	2.7%
3399	Misc. Manufacturing	530	0.71	1.7%	1.4%	-1.6%	1.2%	1.6%	3.0%
5172	Wireless Telecom Carriers	450	1.27	1.4%	-1.1%	23.7%	1.5%	3.0%	22.6%
3364	Aircraft Products & Parts	430	0.33	1.3%	-4.7%	1.7%	0.6%	-11.3%	3.2%
3313	Aluminum Products	400	2.49	1.2%	4.5%	-3.6%	0.1%	8.3%	-10.6%
5191	Web Search Portals and Internet Publishing	390	0.60	1.2%	4.1%	4.4%	1.0%	2.7%	15.5%
3336	Engine & Power Equipment	320	1.18	1.0%	3.1%	-5.2%	0.6%	0.9%	-3.9%
3342	Communications Equipment	300	1.29	0.9%	5.1%	-6.0%	1.1%	5.8%	3.6%
IFG	Advanced industries manufacturing	16,900	1.14	52.6%	-2.3%	5.0%	54.0%	-3.2%	11.4%
	Advanced industries energy	1,400	0.83	4.3%	1.1%	10.7%	9.4%	7.4%	2.9%
	Advanced industries services	13,830	0.78	43.0%	4.3%	1.8%	36.5%	6.1%	4.0%
ADVANCED INDUSTRIES TOTAL		32,130	0.94	100.0%	0.6%	3.8%	100.0%	1.1%	7.7%

† 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.