

San Jose, CA

Advanced industries employ

291,660

full-time workers. (2013)

These direct jobs supports an additional

233,330

indirect jobs in other industries in
the region.

Advanced industries produce

\$71.3

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

Advanced industries pay, on average

\$183,950

dollars per year (2013).

Advanced industries directly
account for

30.0%

of all jobs in the region.

This employment share is

#1

among all large metros.

This accounts for

47.5%

of all output in the region (2013).

This compares to average pay of

\$101,640

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

OUTPUT

4.1%

2.7%

7.8%

3.8%

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U.S.

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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.

San Jose, CA

Twenty-Five Largest Advanced Industries (2013)

There are 18 advanced industries in San Jose, CA 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	57,230	4.90	19.6%	6.8%	14.8%	7.3%
3344	Semiconductors	43,530	16.96	14.9%	2.1%	13.0%	7.3%
3341	Computer Equipment	39,750	36.69	13.6%	3.0%	20.0%	7.7%
5191	Web Search Portals and Internet Publishing	26,940	20.02	9.2%	15.6%	13.3%	17.2%
5417	R&D Services	22,070	5.08	7.6%	5.6%	6.1%	8.9%
5112	Software Products	14,990	7.33	5.1%	8.0%	9.1%	15.7%
5413	Architecture & Engineering	12,690	1.37	4.4%	1.7%	2.4%	1.3%
3345	Precision Instruments	11,690	4.33	4.0%	-8.5%	3.2%	-4.7%
5416	Management Consulting	10,590	1.30	3.6%	9.8%	2.4%	7.8%
3342	Communications Equipment	9,520	13.91	3.3%	3.3%	3.0%	4.8%
5182	Data Processing & Hosting	6,980	3.81	2.4%	0.6%	2.3%	0.9%
3364	Aircraft Products & Parts	6,680	1.96	2.3%	-6.0%	1.7%	-3.1%
3332	Industrial Machinery	5,160	7.07	1.8%	1.3%	1.1%	4.8%
3391	Medical Equipment & Supplies	4,760	2.28	1.6%	4.0%	1.3%	6.6%
6215	Medical and Diagnostic Laboratories	3,160	1.87	1.1%	-0.5%	0.4%	-0.1%
3359	Misc. Electrical Equipment	2,370	2.74	0.8%	5.0%	0.4%	4.9%
3346	Magnetic & Optical Media	1,820	13.88	0.6%	3.0%	0.7%	5.8%
3254	Pharmaceuticals	1,760	0.93	0.6%	1.2%	1.6%	3.0%
3333	Commercial & Service Machinery	1,460	2.45	0.5%	6.2%	0.3%	6.3%
5172	Wireless Telecom Carriers	1,390	1.32	0.5%	-7.3%	0.7%	-5.2%
3399	Misc. Manufacturing	930	0.49	0.3%	-1.7%	0.2%	-0.8%
3369	Misc. Transportation Equipment	660	3.01	0.2%	-14.8%	0.1%	-11.8%
3339	General Purpose Machinery	640	0.37	0.2%	-8.0%	0.1%	-7.6%
3353	Electrical Equipment	530	0.53	0.2%	-4.6%	0.1%	-5.7%
5179	Other telecommunications	520	0.90	0.2%	25.0%	0.3%	48.4%
Advanced industries manufacturing		134,560	3.59	46.1%	0.9%	47.7%	5.4%
Advanced industries energy		300	0.07	0.1%	4.4%	0.3%	10.4%
Advanced industries services		156,810	3.69	53.8%	7.1%	52.0%	10.1%
ADVANCED INDUSTRIES TOTAL		291,660	3.46	100.0%	4.1%	100.0%	7.8%

† 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.