

## San Jose, CA

Advanced industries employ

**329,409**

full-time workers. (2015)

These direct jobs supports an additional

**263,530**

indirect jobs in other industries in the region.

Advanced industries produce

**\$87.8**

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

Advanced industries pay, on average

**\$207,882**

dollars per year (2015).

Advanced industries directly account for

**31.2%**

of all jobs in the region.

This employment share is

**#1**

among all large metros.

This accounts for

**51.4%**

of all output in the region (2015).

This compares to average pay of

**\$116,734**

for all industries (2015).

Advanced industry annual average growth, 2013-2015

**OUTPUT**

**JOB**

8.34%

RANK:  
**#4**

2.70%

5.90%

RANK:  
**#13**

2.46%

San Jose, CA

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 (2015)

There are 19 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 (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	69,630	5.10	21.1%	7.2%	9.5%	14.5%	8.0%	13.0%
3341	Computer Equipment	46,030	39.62	14.0%	2.7%	8.0%	21.4%	10.4%	10.2%
3344	Semiconductors	42,300	16.03	12.8%	2.2%	-1.5%	12.5%	10.5%	3.7%
5191	Web Search Portals and Internet Publishing	39,840	22.84	12.1%	14.7%	21.5%	17.7%	27.1%	12.6%
5417	R&D Services	23,350	4.93	7.1%	5.3%	3.3%	5.4%	5.5%	8.7%
5112	Software Products	17,010	7.13	5.2%	8.1%	5.7%	8.7%	12.6%	12.1%
5413	Engineering	15,000	1.49	4.6%	2.6%	7.4%	2.3%	-0.3%	8.7%
3345	Precision Instruments	12,970	4.53	3.9%	-6.0%	1.2%	2.9%	-2.3%	1.4%
5416	Management Consulting	10,520	1.15	3.2%	9.9%	-1.4%	1.9%	4.7%	3.2%
5182	Data Processing & Hosting	8,300	3.88	2.5%	3.3%	9.0%	1.7%	-5.4%	7.9%
3342	Communications Equipment	6,080	9.59	1.8%	-0.3%	-12.1%	2.6%	9.4%	-4.8%
3364	Aircraft Products & Parts	5,670	1.62	1.7%	-6.1%	-7.7%	1.0%	-8.5%	-9.0%
3332	Industrial Machinery	5,550	6.87	1.7%	1.8%	6.1%	0.9%	3.5%	4.5%
3391	Medical Equipment & Supplies	4,650	2.12	1.4%	2.8%	0.4%	0.9%	1.0%	2.1%
6215	Medical and Diagnostic Laboratories	3,650	1.96	1.1%	-1.4%	-2.0%	0.4%	-3.4%	-1.2%
3346	Magnetic & Optical Media	3,520	29.38	1.1%	4.7%	12.7%	0.6%	10.7%	7.1%
3359	Misc. Electrical Equipment	2,360	2.53	0.7%	5.0%	1.4%	0.3%	-0.6%	1.3%
3254	Pharmaceuticals	1,590	0.80	0.5%	0.1%	0.3%	1.2%	4.2%	-3.3%
5172	Wireless Telecom Carriers	1,570	1.63	0.5%	-5.6%	5.3%	0.9%	-2.5%	17.3%
3333	Commercial & Service Machinery	1,510	2.36	0.5%	5.9%	14.2%	0.2%	5.9%	1.0%
3399	Misc. Manufacturing	790	0.39	0.2%	-0.9%	-7.2%	0.1%	-5.9%	0.3%
3331	Agri., Constr., Mining Machinery	750	0.44	0.2%	9.5%	2.6%	0.1%	49.3%	8.9%
3336	Engine & Power Equipment	740	1.01	0.2%	2.7%	1.2%	0.1%	13.9%	-9.1%
3339	General Purpose Machinery	730	0.38	0.2%	3.7%	14.1%	0.1%	-11.2%	0.8%
5152	Cable and Other Subscription Programming	680	1.54	0.2%	-12.6%	11.8%	0.4%	12.2%	14.3%
IFG	Advanced industries manufacturing	138,960	3.48	42.2%	0.8%	1.8%	45.7%	7.5%	5.1%
	Advanced industries energy	310	0.07	0.1%	2.5%	2.5%	0.1%	0.2%	-16.3%
	Advanced industries services	190,140	3.98	57.7%	7.2%	9.2%	54.3%	11.7%	11.4%
	<b>ADVANCED INDUSTRIES TOTAL</b>	<b>329,410</b>	<b>3.57</b>	<b>100.0%</b>	<b>4.1%</b>	<b>5.9%</b>	<b>100.0%</b>	<b>9.5%</b>	<b>8.3%</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.