

Fresno, CA

Advanced industries employ

11,240

full-time workers. (2015)

These direct jobs supports an additional

8,990

indirect jobs in other industries in
the region.

Advanced industries produce

\$2.7

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

Advanced industries pay, on average

\$70,566

dollars per year (2015).

Advanced industries directly
account for

3.0%

of all jobs in the region.

This employment share is

#98

among all large metros.

This accounts for

6.5%

of all output in the region (2015).

This compares to average pay of

\$42,716

for all industries (2015).

Advanced industry annual average growth, 2013-2015

OUTPUT

RANK:
#98

2.70%

JOBS

RANK:
#93

2.46%

-1.85%

Fresno, CA

U.S.

-0.97%

Fresno, CA

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

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DATA NOTES

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

Fresno, CA

Twenty-Five Largest Advanced Industries (2015)

There are 4 advanced industries in Fresno, 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
5413	Engineering	1,990	0.55	17.7%	1.1%	5.8%	11.3%	0.6%	6.7%
5416	Management Consulting	1,540	0.47	13.7%	-7.0%	-4.6%	12.8%	-9.1%	9.1%
3339	General Purpose Machinery	1,010	1.48	9.0%	8.2%	-3.6%	5.4%	14.0%	-5.9%
5415	Computer Systems Design	780	0.16	7.0%	8.7%	8.4%	7.4%	12.2%	23.8%
3331	Agri., Constr., Mining Machinery	570	0.95	5.1%	4.4%	4.5%	2.7%	10.0%	-5.0%
6215	Medical and Diagnostic Laboratories	490	0.73	4.3%	-0.1%	8.0%	1.6%	-0.5%	9.8%
3391	Medical Equipment & Supplies	480	0.61	4.2%	-0.4%	-3.7%	3.5%	-3.0%	1.5%
3253	Pesticides & Fertilizers	420	4.38	3.7%	2.6%	9.3%	6.1%	7.1%	1.9%
3342	Communications Equipment	310	1.38	2.8%	-17.3%	-18.0%	4.5%	-9.7%	-12.7%
3399	Misc. Manufacturing	290	0.40	2.6%	-8.4%	5.4%	1.3%	-12.2%	3.8%
3345	Precision Instruments	250	0.25	2.2%	23.7%	-9.0%	0.4%	30.5%	-5.1%
3364	Aircraft Products & Parts	240	0.19	2.1%	-4.1%	7.1%	0.5%	-18.9%	16.8%
3362	Motor Vehicle Body & Trailers	210	0.55	1.9%	6.4%	6.7%	1.8%	-2.6%	11.8%
3332	Industrial Machinery	200	0.68	1.7%	7.3%	-4.3%	1.5%	15.2%	5.7%
5417	R&D Services	190	0.11	1.7%	29.8%	-9.7%	1.7%	32.9%	-3.1%
5182	Data Processing & Hosting	180	0.24	1.6%	2.1%	5.3%	1.2%	-6.9%	3.6%
3344	Semiconductors	180	0.19	1.6%	-3.6%	0.6%	0.2%	13.5%	-10.6%
5152	Cable and Other Subscription Programming	180	1.11	1.6%	0.0%	-9.3%	4.6%	10.3%	-7.4%
3341	Computer Equipment	170	0.40	1.5%	-0.9%	4.8%	6.9%	3.5%	-1.4%
3336	Engine & Power Equipment	150	0.57	1.3%	8.2%	-7.4%	0.2%	-12.1%	-25.0%
5172	Wireless Telecom Carriers	150	0.43	1.3%	-16.0%	3.2%	2.4%	-15.3%	8.6%
5179	Other telecommunications	140	0.67	1.3%	-8.5%	-36.0%	2.6%	3.9%	-29.5%
3363	Motor Vehicle Parts	120	0.09	1.1%	-4.3%	11.4%	1.0%	5.6%	-0.5%
5174	Satellite Telecommunications	120	5.68	1.1%	-41.8%	9.6%	1.3%	-40.8%	-15.0%
2111	Oil & Gas Extraction	100	0.20	0.9%	11.0%	3.7%	4.8%	8.1%	-14.8%
IFG	Advanced industries manufacturing	5,200	0.36	46.3%	-1.7%	-1.8%	42.9%	-2.6%	-3.4%
	Advanced industries energy	200	0.12	1.7%	3.8%	-7.5%	8.3%	2.6%	-15.7%
	Advanced industries services	5,840	0.34	52.0%	-3.5%	0.1%	48.8%	-4.5%	2.8%
ADVANCED INDUSTRIES TOTAL		11,240	0.34	100.0%	-2.5%	-1.0%	100.0%	-3.0%	-1.8%

† 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.