

## Bakersfield, CA

Advanced industries employ

**15,892**

full-time workers. (2015)

These direct jobs supports an additional

**12,710**

indirect jobs in other industries in the region.

Advanced industries produce

**\$8.1**

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

Advanced industries pay, on average

**\$128,140**

dollars per year (2015).

Advanced industries directly account for

**5.0%**

of all jobs in the region.

This employment share is

**#90**

among all large metros.

This accounts for

**19.8%**

of all output in the region (2015).

This compares to average pay of

**\$49,483**

for all industries (2015).

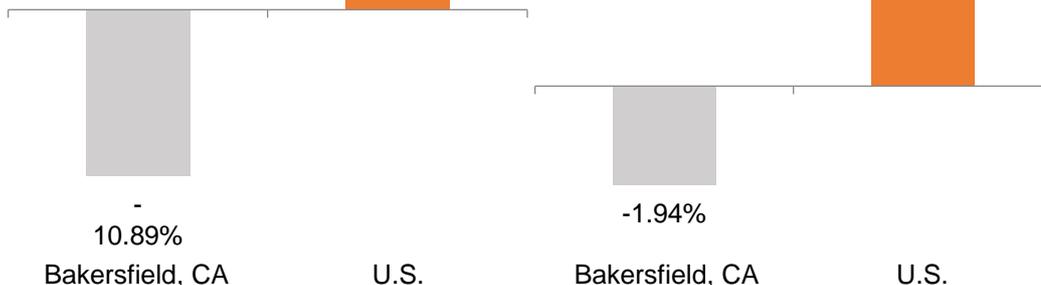
Advanced industry annual average growth, 2013-2015

**OUTPUT**

RANK: #100  
2.70%

**JOBS**

RANK: #98  
2.46%



### 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

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#### DATA NOTES

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

# Bakersfield, CA

## Twenty-Five Largest Advanced Industries (2015)

There are 6 advanced industries in Bakersfield, 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	3,610	1.19	22.7%	7.4%	-3.3%	7.0%	6.0%	-2.1%
2111	Oil & Gas Extraction	2,720	6.52	17.1%	9.4%	3.2%	55.6%	8.8%	-19.5%
5416	Management Consulting	1,670	0.61	10.5%	9.7%	-8.9%	4.3%	6.1%	-0.3%
5415	Computer Systems Design	1,180	0.29	7.4%	-9.6%	-2.4%	3.7%	-7.5%	10.1%
3359	Misc. Electrical Equipment	960	3.42	6.0%	33.6%	3.2%	0.0%	-20.3%	2.7%
3241	Petroleum & Coal Products	680	2.87	4.3%	-7.0%	6.7%	13.5%	-12.7%	16.7%
6215	Medical and Diagnostic Laboratories	680	1.21	4.3%	15.0%	0.6%	0.8%	15.6%	5.1%
3353	Electrical Equipment	540	1.76	3.4%	27.4%	-2.6%	0.0%	-10.6%	-1.9%
3351	Electrical Lighting Equipment	530	5.07	3.3%	28.9%	2.7%	0.0%	-3.6%	13.9%
3364	Aircraft Products & Parts	360	0.34	2.3%	-6.6%	1.9%	1.4%	-1.3%	5.0%
5417	R&D Services	280	0.19	1.7%	31.8%	-18.3%	1.2%	33.8%	4.3%
5182	Data Processing & Hosting	260	0.40	1.6%	-0.9%	-19.5%	0.5%	-9.8%	-22.7%
3331	Agri., Constr., Mining Machinery	230	0.45	1.5%	-15.5%	-6.3%	0.6%	-8.8%	-3.9%
3254	Pharmaceuticals	180	0.30	1.1%	-8.6%	3.8%	1.8%	-0.9%	5.5%
3391	Medical Equipment & Supplies	170	0.26	1.1%	-15.3%	-8.3%	0.6%	-9.0%	-2.4%
3345	Precision Instruments	160	0.18	1.0%	-7.4%	0.6%	1.1%	24.5%	-3.8%
3352	Household Appliances	140	1.02	0.8%	29.0%	7.0%	0.0%	-13.9%	-2.8%
3344	Semiconductors	130	0.16	0.8%	8.8%	-9.0%	0.0%	19.8%	1.5%
5174	Satellite Telecommunications	110	6.41	0.7%	-21.8%	42.1%	0.4%	-17.4%	5.4%
2211	Power Generation & Supply	100	0.12	0.7%	-32.2%	-18.6%	0.3%	-36.3%	-30.4%
3341	Computer Equipment	100	0.29	0.6%	13.0%	-4.9%	0.9%	18.4%	12.3%
3251	Basic Chemicals	100	0.30	0.6%	0.0%	5.5%	1.3%	19.1%	5.5%
3362	Motor Vehicle Body & Trailers	90	0.29	0.6%	-2.0%	9.1%	0.2%	-11.6%	18.5%
3332	Industrial Machinery	90	0.38	0.6%	-6.8%	20.5%	0.1%	29.9%	19.1%
3339	General Purpose Machinery	90	0.16	0.6%	2.5%	-9.8%	0.3%	11.1%	0.5%
IFG	Advanced industries manufacturing	5,070	0.42	31.9%	3.2%	1.3%	24.7%	-5.4%	10.0%
	Advanced industries energy	2,850	2.10	18.0%	3.4%	2.0%	55.9%	7.7%	-19.5%
	Advanced industries services	7,970	0.55	50.1%	4.0%	-5.1%	19.4%	0.4%	0.5%
	<b>ADVANCED INDUSTRIES TOTAL</b>	<b>15,890</b>	<b>0.57</b>	<b>100.0%</b>	<b>3.7%</b>	<b>-1.9%</b>	<b>100.0%</b>	<b>3.9%</b>	<b>-10.9%</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.