

## Modesto, CA

Advanced industries employ

**4,880**

full-time workers. (2013)

These direct jobs supports an additional

**3,900**

indirect jobs in other industries in the region.

Advanced industries produce

**\$1.2**

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

Advanced industries pay, on average

**\$56,310**

dollars per year (2013).

Advanced industries directly account for

**2.8%**

of all jobs in the region.

This employment share is

**#260**

among all small metros.

This accounts for

**6.1%**

of all output in the region (2013).

This compares to average pay of

**\$42,310**

for all industries (2013).

Advanced industry annual average growth, 2010-2013

**JOBS**

2.2%

2.7%

**OUTPUT**

0.9%

3.8%

Modesto, CA

U.S.

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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

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#### DATA NOTES

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

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## Twenty-Five Largest Advanced Industries (2013)

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
5416	Management Consulting	680	0.47	14.0%	20.7%	12.0%	18.6%
5413	Architecture & Engineering	630	0.38	12.8%	1.4%	9.5%	0.8%
3363	Motor Vehicle Parts	460	0.74	9.4%	-2.8%	6.2%	2.9%
5415	Computer Systems Design	350	0.17	7.2%	11.7%	7.2%	12.2%
3331	Agri., Constr., Mining Machinery	330	1.08	6.7%	17.7%	3.9%	22.1%
6215	Medical and Diagnostic Laboratories	290	0.95	5.9%	-0.3%	2.3%	-0.1%
5172	Wireless Telecom Carriers	200	1.07	4.1%	30.2%	6.7%	24.7%
3339	General Purpose Machinery	170	0.53	3.4%	6.4%	2.2%	6.8%
3391	Medical Equipment & Supplies	160	0.44	3.4%	-8.2%	2.9%	-5.4%
3241	Petroleum & Coal Products	130	0.94	2.7%	4.2%	9.2%	-14.4%
3345	Precision Instruments	130	0.27	2.7%	11.8%	2.7%	19.9%
5417	R&D Services	130	0.16	2.6%	-2.0%	2.8%	1.2%
2211	Power Generation & Supply	120	0.25	2.4%	-2.9%	5.0%	-5.6%
3364	Aircraft Products & Parts	120	0.19	2.4%	-11.0%	2.6%	-6.0%
3254	Pharmaceuticals	120	0.34	2.4%	20.3%	6.6%	19.3%
3399	Misc. Manufacturing	110	0.33	2.3%	-4.1%	1.5%	-2.5%
3271	Clay Product and Refractory Manufacturing	100	2.06	2.0%	-1.0%	0.8%	1.9%
3332	Industrial Machinery	90	0.71	1.9%	2.3%	1.4%	6.2%
3362	Motor Vehicle Body & Trailers	70	0.43	1.5%	-6.2%	0.7%	-16.5%
3279	Stone & Mineral Products	60	0.75	1.3%	-1.5%	0.6%	-2.1%
5179	Other telecommunications	50	0.48	1.0%	-44.2%	1.8%	-38.0%
3336	Engine & Power Equipment	50	0.37	0.9%	1.5%	0.8%	2.6%
3259	Misc. Chemicals	40	0.42	0.9%	-7.3%	1.4%	-8.8%
3315	Foundries	40	0.28	0.9%	10.4%	0.2%	20.4%
3361	Motor Vehicles	40	0.18	0.8%	-7.6%	0.8%	-3.5%
Advanced industries manufacturing		2,380	0.36	48.7%	0.9%	48.2%	-0.7%
Advanced industries energy		140	0.17	2.8%	-1.2%	7.4%	-1.2%
Advanced industries services		2,370	0.31	48.5%	3.8%	44.4%	3.1%
<b>ADVANCED INDUSTRIES TOTAL</b>		<b>4,880</b>	<b>0.32</b>	<b>100.0%</b>	<b>2.2%</b>	<b>100.0%</b>	<b>0.9%</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.