

## Detroit, MI

Advanced industries employ

**279,350**

full-time workers. (2013)

These direct jobs supports an additional

**223,480**

indirect jobs in other industries in the region.

Advanced industries produce

**\$48.0**

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

Advanced industries pay, on average

**\$85,910**

dollars per year (2013).

Advanced industries directly account for

**14.8%**

of all jobs in the region.

This employment share is

**#4**

among all large metros.

This accounts for

**24.8%**

of all output in the region (2013).

This compares to average pay of

**\$53,300**

for all industries (2013).

Advanced industry annual average growth, 2010-2013

**JOBS**

7.4%

2.7%

Detroit, MI

U.S.

**OUTPUT**

7.0%

3.8%

Detroit, MI

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.

# Detroit, MI

## Twenty-Five Largest Advanced Industries (2013)

There are 10 advanced industries in Detroit, MI 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
3363	Motor Vehicle Parts	59,400	8.79	21.3%	9.6%	24.5%	8.3%
5413	Architecture & Engineering	58,110	3.26	20.8%	9.6%	13.4%	8.5%
3361	Motor Vehicles	35,040	14.15	12.5%	9.9%	21.4%	10.4%
5415	Computer Systems Design	32,660	1.45	11.7%	5.4%	9.5%	5.1%
5416	Management Consulting	16,160	1.03	5.8%	9.3%	4.0%	4.2%
5417	R&D Services	14,170	1.69	5.1%	4.7%	4.5%	5.3%
5182	Data Processing & Hosting	6,890	1.94	2.5%	5.1%	1.0%	8.3%
3339	General Purpose Machinery	5,730	1.69	2.1%	8.3%	1.2%	12.2%
2211	Power Generation & Supply	5,050	0.97	1.8%	0.5%	5.2%	0.5%
3311	Iron & Steel Products	4,580	3.78	1.6%	4.7%	1.4%	11.4%
3399	Misc. Manufacturing	3,530	0.97	1.3%	6.8%	0.8%	8.1%
3336	Engine & Power Equipment	3,390	2.52	1.2%	2.6%	0.9%	5.3%
3391	Medical Equipment & Supplies	2,860	0.71	1.0%	1.6%	1.0%	0.3%
3332	Industrial Machinery	2,440	1.73	0.9%	9.1%	0.6%	12.6%
3345	Precision Instruments	2,250	0.43	0.8%	4.3%	0.4%	4.9%
6215	Medical and Diagnostic Laboratories	2,220	0.68	0.8%	2.3%	0.5%	3.7%
3364	Aircraft Products & Parts	2,060	0.31	0.7%	8.9%	0.4%	4.9%
5172	Wireless Telecom Carriers	1,950	0.96	0.7%	-5.1%	0.5%	-1.2%
3362	Motor Vehicle Body & Trailers	1,870	1.04	0.7%	-5.0%	0.5%	-11.3%
5112	Software Products	1,770	0.45	0.6%	0.6%	2.1%	6.2%
3344	Semiconductors	1,740	0.35	0.6%	-9.6%	0.3%	-10.9%
3353	Electrical Equipment	1,420	0.75	0.5%	5.0%	0.5%	-4.6%
3251	Basic Chemicals	1,400	0.74	0.5%	10.9%	0.3%	-1.1%
5179	Other telecommunications	1,270	1.13	0.5%	-1.3%	0.6%	-5.4%
3252	Resins & Synthetic Rubbers	1,030	0.84	0.4%	-6.2%	0.6%	-3.6%
Advanced industries manufacturing		138,000	1.91	49.4%	7.8%	58.1%	8.2%
Advanced industries energy		5,300	0.63	1.9%	0.7%	5.4%	0.9%
Advanced industries services		136,060	1.66	48.7%	7.1%	36.4%	6.1%
<b>ADVANCED INDUSTRIES TOTAL</b>		<b>279,350</b>	<b>1.71</b>	<b>100.0%</b>	<b>7.4%</b>	<b>100.0%</b>	<b>7.0%</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.