

Houston, TX

Advanced industries employ

360,970

full-time workers. (2013)

These direct jobs supports an additional

288,780

indirect jobs in other industries in
the region.

Advanced industries produce

\$154.1

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

Advanced industries pay, on average

\$121,220

dollars per year (2013).

Advanced industries directly
account for

12.8%

of all jobs in the region.

This employment share is

#9

among all large metros.

This accounts for

38.4%

of all output in the region (2013).

This compares to average pay of

\$63,880

for all industries (2013).

Advanced industry annual average growth, 2010-2013

JOBS

5.2%

2.7%

Houston, TX

U.S.

OUTPUT

8.3%

3.8%

Houston, TX

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

SEE THE INTERACTIVE

www.brookings.edu/advancedindustries

FOLLOW US ON TWITTER

@BrookingsMetro | @MarkMuro1 | #AdvIndustries

DATA NOTES

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

Houston, TX

Twenty-Five Largest Advanced Industries (2013)

There are 12 advanced industries in Houston, TX 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
5413	Architecture & Engineering	69,060	2.58	19.1%	5.5%	6.2%	5.5%
2111	Oil & Gas Extraction	58,270	14.83	16.1%	8.0%	41.2%	12.3%
3331	Agri., Constr., Mining Machinery	42,370	8.55	11.7%	10.5%	6.2%	17.2%
5416	Management Consulting	31,350	1.33	8.7%	11.1%	3.1%	10.8%
5415	Computer Systems Design	29,660	0.88	8.2%	7.0%	3.7%	8.5%
3251	Basic Chemicals	20,960	7.34	5.8%	0.8%	9.3%	1.6%
3241	Petroleum & Coal Products	12,230	5.47	3.4%	-1.2%	10.2%	4.5%
2211	Power Generation & Supply	11,740	1.50	3.3%	0.5%	5.6%	9.3%
3345	Precision Instruments	7,880	1.01	2.2%	2.4%	1.2%	5.3%
3341	Computer Equipment	6,960	2.22	1.9%	1.3%	1.9%	3.8%
5417	R&D Services	6,280	0.50	1.7%	-8.3%	0.7%	-6.5%
3339	General Purpose Machinery	5,890	1.16	1.6%	7.2%	0.7%	13.1%
6215	Medical and Diagnostic Laboratories	4,900	1.00	1.4%	1.2%	0.2%	2.0%
3353	Electrical Equipment	4,820	1.69	1.3%	9.4%	0.4%	7.6%
3399	Misc. Manufacturing	4,500	0.83	1.2%	5.9%	0.3%	4.8%
3259	Misc. Chemicals	4,420	2.67	1.2%	5.2%	1.4%	4.2%
3252	Resins & Synthetic Rubbers	3,990	2.17	1.1%	0.6%	1.7%	0.6%
3344	Semiconductors	3,370	0.45	0.9%	2.5%	0.5%	5.2%
5182	Data Processing & Hosting	3,240	0.61	0.9%	1.5%	0.3%	-0.2%
5172	Wireless Telecom Carriers	2,580	0.84	0.7%	-6.3%	0.4%	-1.0%
5112	Software Products	2,080	0.35	0.6%	-1.3%	0.6%	4.8%
3391	Medical Equipment & Supplies	2,060	0.34	0.6%	1.2%	0.2%	0.6%
3336	Engine & Power Equipment	1,800	0.89	0.5%	7.7%	0.3%	15.3%
3366	Ships & Boats	1,710	0.67	0.5%	-5.4%	0.1%	-0.9%
5179	Other telecommunications	1,680	1.00	0.5%	-5.3%	0.3%	-3.1%
Advanced industries manufacturing		138,420	1.28	38.3%	4.3%	37.3%	5.4%
Advanced industries energy		70,020	5.54	19.4%	6.6%	46.8%	11.9%
Advanced industries services		152,530	1.24	42.3%	5.4%	15.9%	5.8%
ADVANCED INDUSTRIES TOTAL		360,970	1.48	100.0%	5.2%	100.0%	8.3%

† 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.