

## Houston, TX

Advanced industries employ

**361,719**

full-time workers. (2015)

These direct jobs supports an additional

**289,380**

indirect jobs in other industries in  
the region.

Advanced industries produce

**\$160.7**

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

Advanced industries pay, on average

**\$128,044**

dollars per year (2015).

Advanced industries directly  
account for

**11.9%**

of all jobs in the region.

This employment share is

**#13**

among all large metros.

This accounts for

**37.1%**

of all output in the region (2015).

This compares to average pay of

**\$66,232**

for all industries (2015).

Advanced industry annual average growth, 2013-2015

**OUTPUT**

**JOBS**

3.60%

RANK:  
#38

2.70%

RANK:  
#80

2.46%

0.37%

Houston, TX

U.S.

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### 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.

# Houston, TX

## Twenty-Five Largest Advanced Industries (2015)

There are 11 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 (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	72,510	2.50	20.0%	5.7%	1.7%	6.1%	3.9%	1.5%
2111	Oil & Gas Extraction	52,950	13.32	14.6%	7.7%	-0.6%	47.1%	14.0%	7.2%
3331	Agri., Constr., Mining Machinery	39,010	8.01	10.8%	10.0%	-3.4%	4.6%	6.5%	1.2%
5416	Management Consulting	36,500	1.39	10.1%	11.9%	5.6%	3.4%	9.6%	6.7%
5415	Computer Systems Design	33,330	0.85	9.2%	6.9%	3.1%	3.4%	9.8%	8.1%
3251	Basic Chemicals	22,500	7.33	6.2%	0.9%	2.8%	8.7%	-2.2%	3.7%
2211	Power Generation & Supply	11,280	1.38	3.1%	-0.2%	-1.5%	4.9%	8.3%	-3.4%
3241	Petroleum & Coal Products	9,800	4.34	2.7%	-0.9%	-3.0%	8.2%	5.6%	-6.4%
3345	Precision Instruments	7,700	0.94	2.1%	2.3%	-1.0%	1.0%	4.7%	3.1%
3339	General Purpose Machinery	6,570	1.20	1.8%	5.6%	4.2%	0.6%	3.4%	7.7%
3341	Computer Equipment	6,550	1.97	1.8%	0.6%	-2.0%	1.7%	-0.5%	2.4%
5417	R&D Services	6,130	0.45	1.7%	-7.6%	-3.4%	0.7%	-7.0%	-4.1%
6215	Medical and Diagnostic Laboratories	5,770	1.08	1.6%	3.7%	8.6%	0.3%	2.6%	6.5%
3353	Electrical Equipment	5,040	1.71	1.4%	7.9%	1.6%	0.4%	2.5%	3.4%
3399	Misc. Manufacturing	4,690	0.81	1.3%	4.1%	2.6%	0.3%	0.7%	4.3%
3259	Misc. Chemicals	4,620	2.75	1.3%	5.6%	2.9%	1.3%	1.6%	-0.1%
3252	Resins & Synthetic Rubbers	4,300	2.22	1.2%	0.1%	4.6%	1.7%	-2.6%	3.6%
5182	Data Processing & Hosting	3,750	0.61	1.0%	2.3%	-4.6%	0.4%	-3.5%	-1.3%
5112	Software Products	2,240	0.33	0.6%	-0.7%	2.6%	0.7%	4.8%	8.8%
3344	Semiconductors	2,130	0.28	0.6%	-1.8%	-19.9%	0.3%	-0.5%	-16.5%
5172	Wireless Telecom Carriers	1,990	0.72	0.6%	-6.8%	-12.2%	0.5%	3.4%	15.3%
3391	Medical Equipment & Supplies	1,960	0.31	0.5%	0.0%	-2.2%	0.1%	-4.1%	2.7%
5179	Other telecommunications	1,710	1.02	0.5%	-3.7%	-0.1%	0.4%	2.4%	1.8%
3311	Iron & Steel Products	1,560	0.85	0.4%	18.0%	3.3%	0.2%	23.1%	-5.3%
3362	Motor Vehicle Body & Trailers	1,420	0.46	0.4%	13.4%	-5.0%	0.2%	25.2%	1.0%
IFG	Advanced industries manufacturing	132,190	1.15	36.5%	4.4%	-1.4%	32.0%	2.5%	-0.3%
	Advanced industries energy	64,240	4.96	17.8%	6.1%	-0.8%	52.0%	13.3%	6.0%
	Advanced industries services	165,290	1.20	45.7%	5.8%	2.3%	16.0%	5.2%	4.2%
<b>ADVANCED INDUSTRIES TOTAL</b>		<b>361,720</b>	<b>1.36</b>	<b>100.0%</b>	<b>5.3%</b>	<b>0.4%</b>	<b>100.0%</b>	<b>7.8%</b>	<b>3.6%</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.