

## Reading, PA

Advanced industries employ

**19,810**

full-time workers. (2013)

These direct jobs supports an additional

**15,850**

indirect jobs in other industries in  
the region.

Advanced industries produce

**\$2.9**

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

Advanced industries pay, on average

**\$62,550**

dollars per year (2013).

Advanced industries directly  
account for

**11.4%**

of all jobs in the region.

This employment share is

**#30**

among all small metros.

This accounts for

**17.4%**

of all output in the region (2013).

This compares to average pay of

**\$44,210**

for all industries (2013).

Advanced industry annual average growth, 2010-2013

**JOBS**

2.5%

2.7%

**OUTPUT**

3.3%

3.8%

Reading, PA

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

#### VIEW THE FULL REPORT

[www.brookings.edu/advancedindustries](http://www.brookings.edu/advancedindustries)

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#### DATA NOTES

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

# Reading, PA

## 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 |
|-----------------------------------|---|----------------------------|--|---|---|---|---|
| 3359                              | Misc. Electrical Equipment                | 6,280                      | 40.57                                  | 31.7%   | 2.9%  | 25.0%   | 0.6%                                    |
| 5413                              | Architecture & Engineering                | 2,110                      | 1.28                                   | 10.7%   | -0.7%                                       | 10.2%   | -0.2%                                   |
| 3311                              | Iron & Steel Products                     | 2,060                      | 18.39                                  | 10.4%   | 4.6%  | 12.4%   | 14.2%                                   |
| 3391                              | Medical Equipment & Supplies              | 1,550                      | 4.14                                   | 7.8%  | -3.6%                                       | 7.2%  | -2.9%                                   |
| 3362                              | Motor Vehicle Body & Trailers             | 900                        | 5.40                                   | 4.5%  | 14.3%                                       | 2.3%  | 33.7%                                   |
| 5415                              | Computer Systems Design                   | 800                        | 0.38                                   | 4.0%  | 5.1%  | 5.1%  | 6.3%                                    |
| 3315                              | Foundries                                 | 780                        | 5.06                                   | 3.9%  | 0.5%  | 2.4%  | 12.4%                                   |
| 5416                              | Management Consulting                     | 560                        | 0.38                                   | 2.8%  | 3.5%  | 3.0%  | 2.8%                                    |
| 3339                              | General Purpose Machinery                 | 390                        | 1.25                                   | 2.0%  | 1.4%  | 1.4%  | 4.4%                                    |
| 2211                              | Power Generation & Supply                 | 380                        | 0.79                                   | 1.9%  | 1.3%  | 6.7%  | 0.1%                                    |
| 3344                              | Semiconductors                            | 340                        | 0.74                                   | 1.7%  | 4.2%  | 1.7%  | 6.2%                                    |
| 3353                              | Electrical Equipment                      | 340                        | 1.90                                   | 1.7%  | 1.5%  | 0.9%  | -0.6%                                   |
| 3342                              | Communications Equipment                  | 290                        | 2.34                                   | 1.4%  | 2.7%  | 1.3%  | 4.1%                                    |
| 3313                              | Aluminum Products                         | 250                        | 3.42                                   | 1.2%  | 5.1%  | 1.3%  | 14.9%                                   |
| 3364                              | Aircraft Products & Parts                 | 250                        | 0.40                                   | 1.2%  | 10.2%                                       | 2.5%  | 6.1%                                    |
| 3363                              | Motor Vehicle Parts                       | 210                        | 0.33                                   | 1.1%  | 2.5%  | 1.0%  | 14.9%                                   |
| 3332                              | Industrial Machinery                      | 190                        | 1.48                                   | 1.0%  | 7.6%  | 0.9%  | 11.1%                                   |
| 3251                              | Basic Chemicals                           | 190                        | 1.07                                   | 1.0%  | -1.2%                                       | 2.1%  | -5.7%                                   |
| 3399                              | Misc. Manufacturing                       | 180                        | 0.53                                   | 0.9%  | -5.8%                                       | 0.6%  | -0.8%                                   |
| 6215                              | Medical and Diagnostic Laboratories       | 160                        | 0.54                                   | 0.8%  | 2.8%  | 0.4%  | 4.0%                                    |
| 3259                              | Misc. Chemicals                           | 160                        | 1.58                                   | 0.8%  | 10.2%                                       | 1.4%  | 3.1%                                    |
| 3361                              | Motor Vehicles                            | 160                        | 0.68                                   | 0.8%  | 12.7%                                       | 1.1%  | 37.8%                                   |
| 5182                              | Data Processing & Hosting                 | 160                        | 0.47                                   | 0.8%  | 3.7%  | 0.7%  | 3.5%                                    |
| 3351                              | Electrical Lighting Equipment             | 150                        | 2.57                                   | 0.8%  | 1.6%  | 0.5%  | 0.7%                                    |
| 3271                              | Clay Product and Refractory Manufacturing | 140                        | 2.92                                   | 0.7%  | -0.5%                                       | 0.5%  | -1.3%                                   |
| Advanced industries manufacturing |   | 15,290                     | 2.28                                   | 77.2%   | 2.8%  | 70.3%   | 4.1%                                    |
| Advanced industries energy        |   | 400                        | 0.50                                   | 2.0%  | 1.5%  | 6.9%  | 0.5%                                    |
| Advanced industries services      |   | 4,120                      | 0.54                                   | 20.8%   | 1.5%  | 22.8%   | 1.6%                                    |
| <b>ADVANCED INDUSTRIES TOTAL</b>  |   | <b>19,810</b>              | <b>1.31</b>                            | <b>100.0%</b>   | <b>2.5%</b>                                 | <b>100.0%</b>   | <b>3.3%</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.