Manufacturing in America

Manufacturing plays a major role in our economy, with 11.6 million employees producing goods that we consume domestically or export abroad. In recognition of the seventh annual Manufacturing Day on October 5, 2018, the U.S. Census Bureau joins a group of public and private organizations in celebrating the importance of the manufacturing sector to the nation’s economy. The nation relies on several key Census Bureau programs to track America's manufacturing industries, and the most recent year’s data from some of these programs are highlighted below.
How does manufacturing compare to other industries?

Manufacturing Is the Fifth-Largest Employer
(Millions of employees)

- Health care and social assistance: 19.7
- Retail trade: 16.0
- Accommodation and food services: 13.7
- Administrative and support and waste management and remediation services: 11.6
- Manufacturing: 11.6
- Professional, scientific, and technical services: 8.8
- Finance and insurance: 6.3
- Construction: 6.3
- Wholesale trade: 6.1
- Other services (except public administration): 5.5
- Transportation and warehousing: 4.7
- Educational services: 3.7
- Information: 3.4
- Management of companies and enterprises: 3.4
- Arts, entertainment, and recreation: 2.3
- Real estate and rental and leasing: 2.1
- Utilities: 0.6
- Mining, quarrying, and oil and gas extraction: 0.6
- Agriculture, forestry, fishing, and hunting: 0.2
- Industries not classified: Z

Z ROUNDS TO ZERO.
Note: Rankings may vary slightly due to nonsampling error and disclosure methods used to protect the confidentiality of the data.
How does manufacturing compare to other industries?

Average Annual Payroll Per Employee by Sector

<table>
<thead>
<tr>
<th>Industry</th>
<th>Average Payroll Per Employee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management of companies and enterprises</td>
<td>$108,634</td>
</tr>
<tr>
<td>Utilities</td>
<td>$102,365</td>
</tr>
<tr>
<td>Finance and insurance</td>
<td>$96,537</td>
</tr>
<tr>
<td>Information</td>
<td>$92,084</td>
</tr>
<tr>
<td>Mining, quarrying, and oil and gas extraction</td>
<td>$84,150</td>
</tr>
<tr>
<td>Professional, scientific, and technical services</td>
<td>$81,853</td>
</tr>
<tr>
<td>Wholesale trade</td>
<td>$70,018</td>
</tr>
<tr>
<td>Construction</td>
<td>$58,824</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>$57,266</td>
</tr>
<tr>
<td>Real estate and rental and leasing</td>
<td>$52,338</td>
</tr>
<tr>
<td>Transportation and warehousing</td>
<td>$48,452</td>
</tr>
<tr>
<td>Health care and social assistance</td>
<td>$47,631</td>
</tr>
<tr>
<td>Agriculture, forestry, fishing, and hunting</td>
<td>$41,135</td>
</tr>
<tr>
<td>Administrative and support and waste management and remediation services</td>
<td>$39,594</td>
</tr>
<tr>
<td>Educational services</td>
<td>$37,683</td>
</tr>
<tr>
<td>Arts, entertainment, and recreation</td>
<td>$35,097</td>
</tr>
<tr>
<td>Other services (except public administration)</td>
<td>$31,797</td>
</tr>
<tr>
<td>Retail trade</td>
<td>$27,408</td>
</tr>
<tr>
<td>Industries not classified</td>
<td>$23,283</td>
</tr>
<tr>
<td>Accommodation and food services</td>
<td>$19,065</td>
</tr>
</tbody>
</table>

Manufacturing employed 11.6 million workers in 2016. The annual payroll was $663.7 billion.


Note: Rankings may vary slightly due to nonsampling error and disclosure methods used to protect the confidentiality of the data.
Where does manufacturing occur in the United States?

Manufacturing Employment as a Percentage of Total Working-Age Population by State

In 2016, 29.8 percent of manufacturing employees age 25 and older had a bachelor’s degree or higher. Source: 2016 Current Population Survey.

In what subsectors do manufacturers work?

Top 10 Subsectors by Number of Employees
(Millions of employees)

- Transportation equipment manufacturing: 1.48
- Food manufacturing: 1.42
- Fabricated metal product manufacturing: 1.33
- Machinery manufacturing: 0.99
- Computer and electronic products manufacturing: 0.77
- Chemical manufacturing*: 0.74
- Plastics and rubber products manufacturing*: 0.74
- Miscellaneous manufacturing: 0.51
- Printing and related support activities: 0.42
- Wood product manufacturing*: 0.38

*The difference between the employment estimates, within each pair of subsectors, is not statistically significant at the 90 percent level: Chemical manufacturing and Plastics and rubber products manufacturing; and Wood product manufacturing and nonmetallic mineral product manufacturing (not pictured).

Note: These statistics are estimated from a sample survey and are subject to sampling variability, as well as nonsampling error. Source: 2016 Annual Survey of Manufactures, <www.census.gov/programs-surveys/asm/>.
Which manufacturing subsectors have the largest value of shipments?

Top 10 Subsectors by Value of Shipments  
(Billions of dollars)

<table>
<thead>
<tr>
<th>Subsector</th>
<th>Value of Shipments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transportation equipment manufacturing</td>
<td>$949.3</td>
</tr>
<tr>
<td>Food manufacturing</td>
<td>$764.8</td>
</tr>
<tr>
<td>Chemical manufacturing</td>
<td>$723.3</td>
</tr>
<tr>
<td>Petroleum and coal products manufacturing</td>
<td>$430.3</td>
</tr>
<tr>
<td>Machinery manufacturing</td>
<td>$348.4</td>
</tr>
<tr>
<td>Fabricated metal product manufacturing</td>
<td>$335.8</td>
</tr>
<tr>
<td>Computer and electronic products manufacturing</td>
<td>$293.6</td>
</tr>
<tr>
<td>Plastics and rubber products manufacturing</td>
<td>$235.7</td>
</tr>
<tr>
<td>Primary metal manufacturing</td>
<td>$206.6</td>
</tr>
<tr>
<td>Paper manufacturing</td>
<td>$181.7</td>
</tr>
</tbody>
</table>

Note: These statistics are estimated from a sample survey and are subject to sampling variability, as well as nonsampling error.  

The total value of shipments for 2016 was $5.4 trillion.  
Source: 2016 Annual Survey of Manufactures.
How does manufacturing contribute to exports?

Nearly 6 in 10 U.S. Export Dollars Come From Manufacturers\(^1\)
(Billions of dollars)

- $772.3 Manufacturers (59.9%)
- $295.8 Wholesalers (22.9%)
- $222.2 Others and unclassified (17.2%)

\(^1\) Note: Graphic shows the known value of the portion of U.S. exports that could be matched to specific companies. Source: A Profile of U.S. Importing and Exporting Companies, 2015-2016, <www.census.gov/foreign-trade/>.
Manufacturing Is the Fifth-Largest Employer

In 2016, 29.8 percent of the nation’s working-age population was employed in manufacturing. This includes 11.6 million employees age 25 and older who had a bachelor’s degree or higher and an annual payroll of $1.62 trillion. The Census Bureau’s American Community Survey provides reliable estimates of manufacturing’s share of the working-age population.

Top 10 Manufacturing Subsectors by Number of Employees

1. Transportation equipment manufacturing
2. Computer and electronic products manufacturing
3. Fabricated metal product manufacturing
4. Printing and related support activities
5. Educational services
6. Chemical manufacturing
7. Wood product manufacturing
8. Primary metal manufacturing
9. Agricultural machinery and equipment manufacturing
10. Transportation and warehousing

Top 10 Manufacturing Subsectors by Value of Shipments

1. Transportation equipment
2. Computer and electronic products
3. Fabricated metal products
4. Printing and related support activities
5. Chemical product manufacturing
6. Wood product manufacturing
7. Primary metal manufacturing
8. Agricultural machinery and equipment
9. Machinery
10. Transportation and warehousing

Top 10 Manufacturing Subsectors by Average Annual Payroll

1. Professional, scientific, and technical services
2. Management of companies and enterprises
3. Administration and support services
4. Wholesale trade
5. Finance and insurance
6. Retail trade
7. Health care and social assistance
8. Educational services
9. Utilities
10. Transportation and warehousing

Top 10 U.S. Exporting and Importing Companies

1. Texas Instruments
2. Apple
3. Caterpillar
4. Boeing
5. General Electric
6. Intel
7. Ford
8. Amazon
9. Nike
10. Microsoft

Nearly 6 in 10 U.S. Export Dollars Come From Manufacturers

In 2016, 59.9 percent of U.S. merchandise exports were shipped by manufacturers. Manufacturers accounted for $772.3 billion in U.S. merchandise exports.

Nearly 1 in 10 U.S. Import Dollars Come From Manufacturers

In 2016, 10.8 percent of U.S. merchandise imports were sourced from manufacturers. Manufacturers accounted for $108.6 billion in U.S. merchandise imports.

Top 10 Manufacturing Exporting States

1. California
2. Texas
3. Illinois
4. New York
5. Ohio
6. Michigan
7. Pennsylvania
8. Wisconsin
9. Washington
10. North Carolina

Top 10 Manufacturing Importing States

1. California
2. Texas
3. New York
4. New Jersey
5. Illinois
6. Massachusetts
7. Ohio
8. New York
9. Michigan
10. Pennsylvania

Top 10 Manufacturing Exporting Metropolitan Areas

1. New York City
2. Los Angeles
3. Chicago
4. Houston
5. San Francisco
6. Dallas
7. Philadelphia
8. Atlanta
9. Phoenix
10. Austin

Top 10 Manufacturing Importing Metropolitan Areas

1. New York City
2. Los Angeles
3. Chicago
4. Houston
5. San Francisco
6. Dallas
7. Philadelphia
8. Atlanta
9. Phoenix
10. Austin