



FLORIDA DEPARTMENT of  
ECONOMIC OPPORTUNITY

2021  
EDITION

Labor  
Market  
Industry Profile

# Florida Manufacturing Industry

## **Florida Manufacturing Industry Cluster**

### **Exploring Florida's Targeted Industries**

Florida's geographic location ideally positions the state as a hub of commerce to all parts of the world. Florida's competitive costs, comprehensive infrastructure and a large, diverse talent pool amongst other things have supported the expansion of a dynamic economy throughout the following six key areas: aviation & aerospace, life sciences, manufacturing, information technology, financial & professional services and logistics & distribution—which are the subject of this series of reports titled *Industry Profiles*.

Industry Profiles detail the benefits of these targeted industries on Florida's employment, wage-earning levels and how each industry is forecast to perform moving forward. In an ever increasingly competitive global market, Florida continues to position itself for future growth in key areas as evidenced in the following industry profiles.

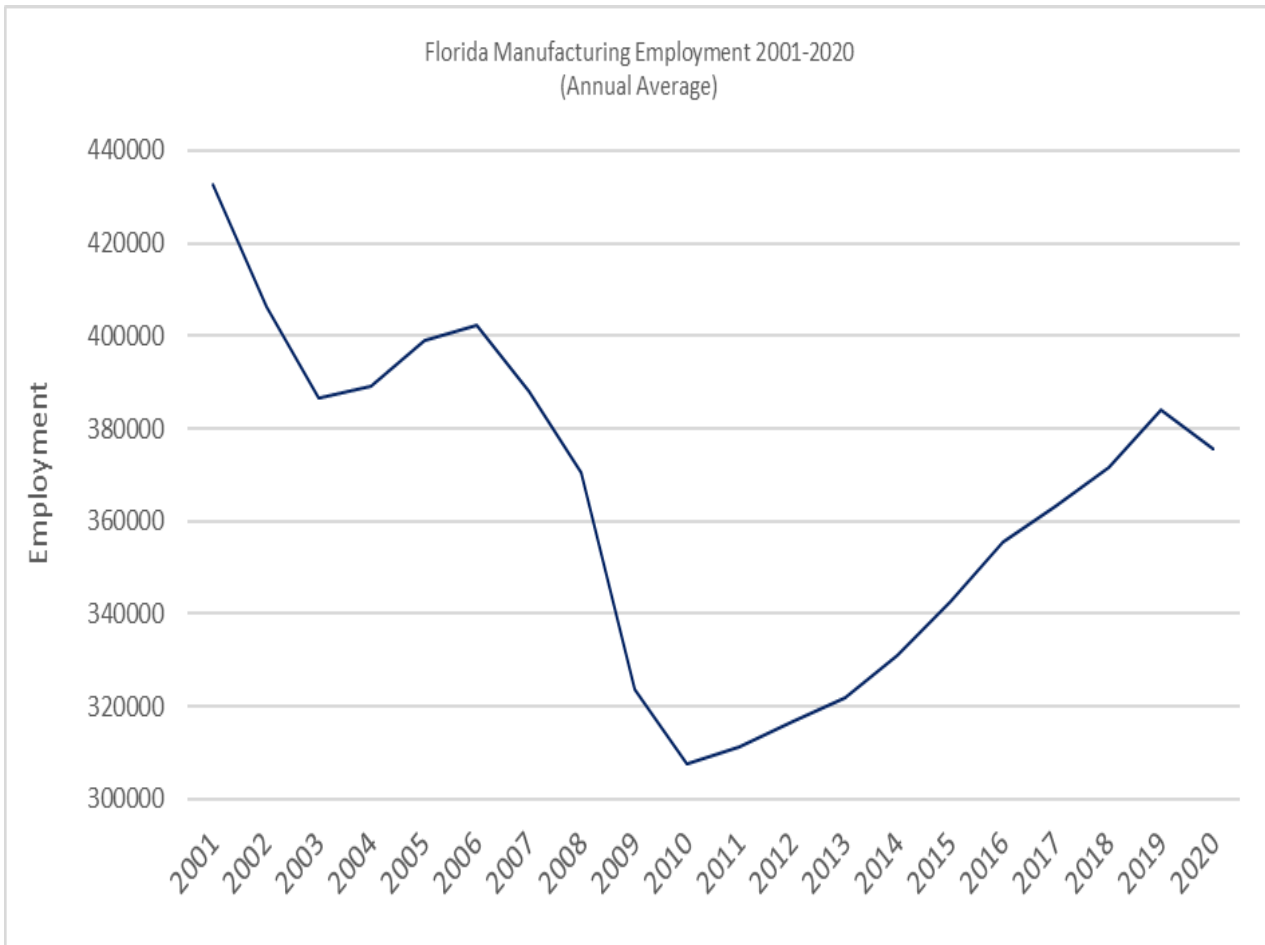
### **Overview**

Florida manufacturers are critical to the state's economy. Many Florida manufacturing operations benefit from the presence of advanced research facilities at Florida's universities and colleges, military installations and NASA.

In 2020, Florida manufacturing was 4.4 percent of the employment for all industries and is separated into durable goods manufacturing and nondurable goods manufacturing. Durable goods manufacturing accounted for 68.7 percent of 2020 manufacturing employment while nondurable goods manufacturing accounted for 31.4 percent.

### **Employment Trends in the Manufacturing Industry Cluster**

The Manufacturing industry cluster is composed of 10 durable goods and 11 nondurable goods subsectors. There were 21,280 durable and nondurable goods manufacturing establishments in 2020 that accounted for 375,707 jobs. Manufacturing employment was on a downward trend between 2001 and 2003 and then began increasing for several years before it started to decline again when it bottomed out in 2010. Manufacturing employment began growing from a low of 307,618 jobs in 2010 to 384,075 jobs in 2019 (a +24.7 percent increase). However, 2020 saw a decrease of 8,368 manufacturing jobs (-2.2 percent over the year), bringing overall manufacturing employment down to 375,707 jobs.



Source: Florida Department of Economic Opportunity, Bureau of Workforce Statistics and & Economic Research, Quarterly Census of Employment and Wages Program (QCEW).

The largest industry subsectors in the Manufacturing industry cluster in 2020 were: Transportation Equipment Manufacturing (48,204 jobs), Computer and Electronic Product Manufacturing (44,105 jobs), Fabricated Metal Product Manufacturing (39,841 jobs), Food Manufacturing (33,494 jobs), Miscellaneous Manufacturing (31,418 jobs), and Machinery Manufacturing (30,365 jobs). These six subsectors comprised 60.5 percent of total manufacturing employment. Food manufacturing is the only subsector of these six that manufacture nondurable goods.

### Durable Goods Manufacturing

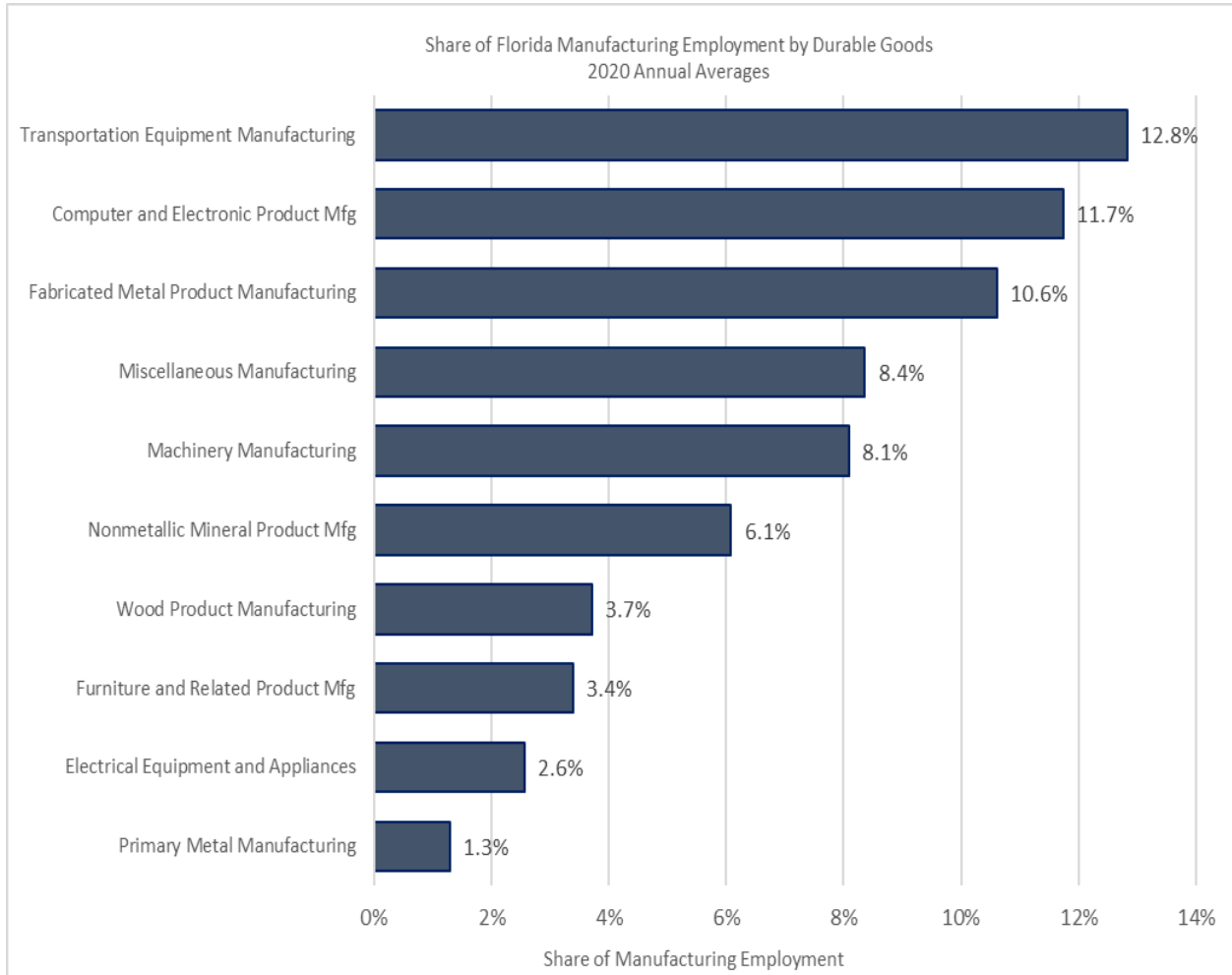
Durable goods manufacturing includes the following industry subsectors:

- Wood Product Manufacturing (NAICS subsector 321),
- Nonmetallic Mineral Product Manufacturing (NAICS subsector 327),
- Primary Metal Manufacturing (NAICS subsector 331),
- Fabricated Metal Product Manufacturing (NAICS subsector 332),
- Machinery Manufacturing (NAICS subsector 333),
- Computer and Electronic Product Manufacturing (NAICS subsector 334),
- Electrical Equipment and Appliance Manufacturing (NAICS subsector 335),
- Transportation Equipment Manufacturing (NAICS subsector 336),
- Furniture and Related Product Manufacturing (NAICS subsector 337), and

- Miscellaneous Manufacturing (NAICS subsector 339).

Durable goods manufacturing had 13,821 establishments in 2020 that accounted for 257,921 jobs. Employment was down 4,632 jobs (-1.8 percent) over the year.

The largest industry subsectors in durable goods manufacturing in 2020 were: Transportation Equipment Manufacturing (48,204 jobs), Computer and Electronic Product Manufacturing (44,105 jobs), Fabricated Metal Product Manufacturing (39,841 jobs), Miscellaneous Manufacturing (31,418 jobs), and Machinery Manufacturing (30,365 jobs). These five subsectors accounted for 75.2 percent of durable goods manufacturing employment and 51.6 percent of total manufacturing employment.



Source: Florida Department of Economic Opportunity, Bureau of Workforce Statistics and & Economic Research, Quarterly Census of Employment and Wages Program (QCEW).

Eight of the ten durable goods industries lost jobs over the year in 2020. Miscellaneous Manufacturing (-1,604 jobs, -4.9 percent), followed by Fabricated Metal Product Manufacturing (-1,272 jobs, -3.1 percent), Furniture and Related Product Manufacturing (-802 jobs, -5.9 percent), and Machinery Manufacturing (-704 jobs, -2.3 percent) lost the most jobs from 2019 to 2020, while Transportation Equipment Manufacturing (+378 jobs, +0.8 percent) and Computer and Electronic Product Manufacturing (+77 jobs, +0.2 percent) were the only industries that gained jobs.

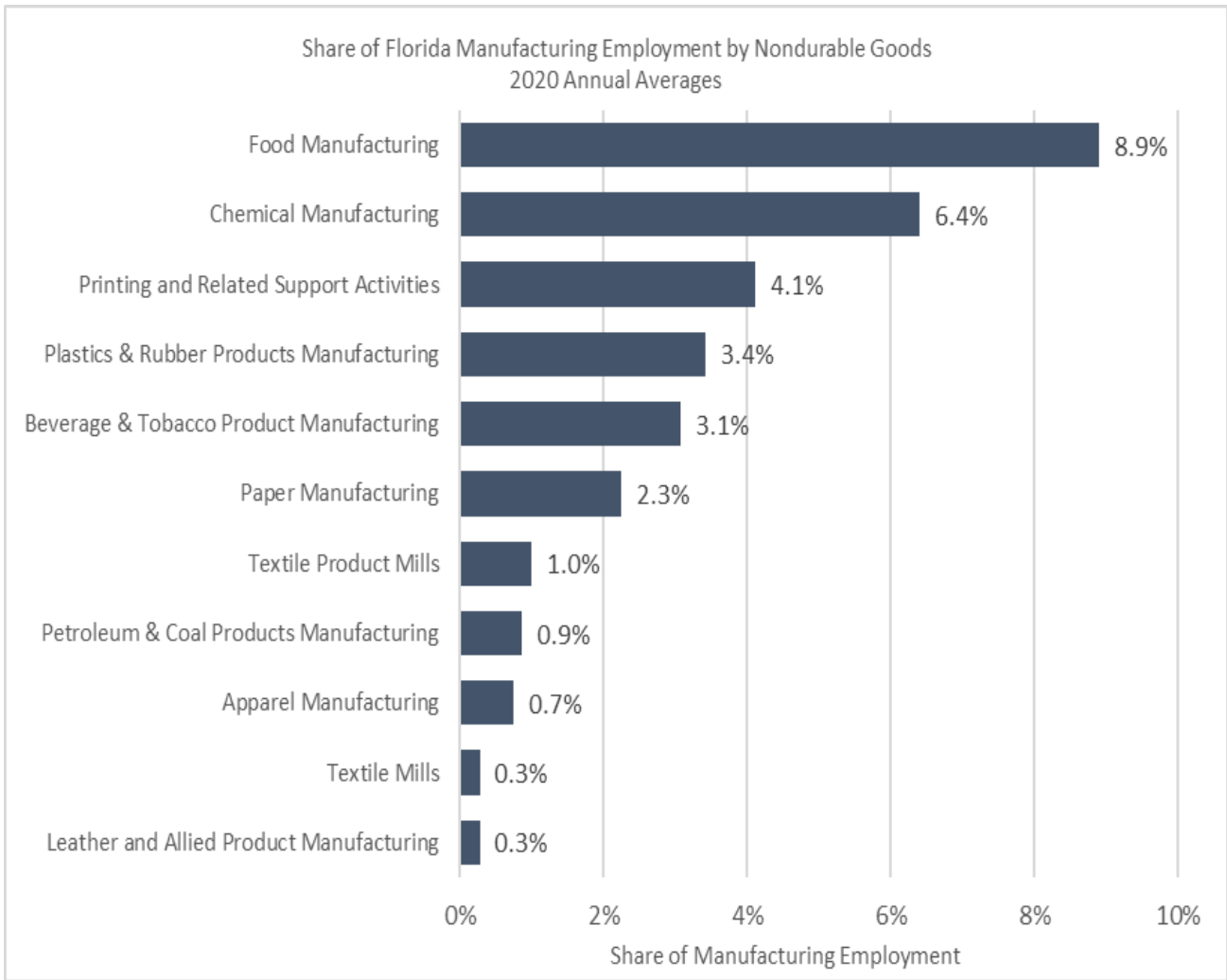
## **Nondurable Goods Manufacturing**

Nondurable goods manufacturing includes the following subsectors:

- Food Manufacturing (NAICS subsector 311),
- Beverage and Tobacco Product Manufacturing (NAICS subsector 312),
- Textile Mills; Textile Product Mills (NAICS subsector 314),
- Apparel Manufacturing (NAICS subsector 315),
- Leather and Allied Product Manufacturing (NAICS subsector 316),
- Paper Manufacturing (NAICS subsector 322),
- Printing and Related Support Activities (NAICS subsector 323),
- Petroleum and Coal Products Manufacturing (NAICS subsector 324),
- Chemical Manufacturing; and Plastics (NAICS subsector 325), and
- Plastics & Rubber Products Manufacturing (NAICS subsector 326).

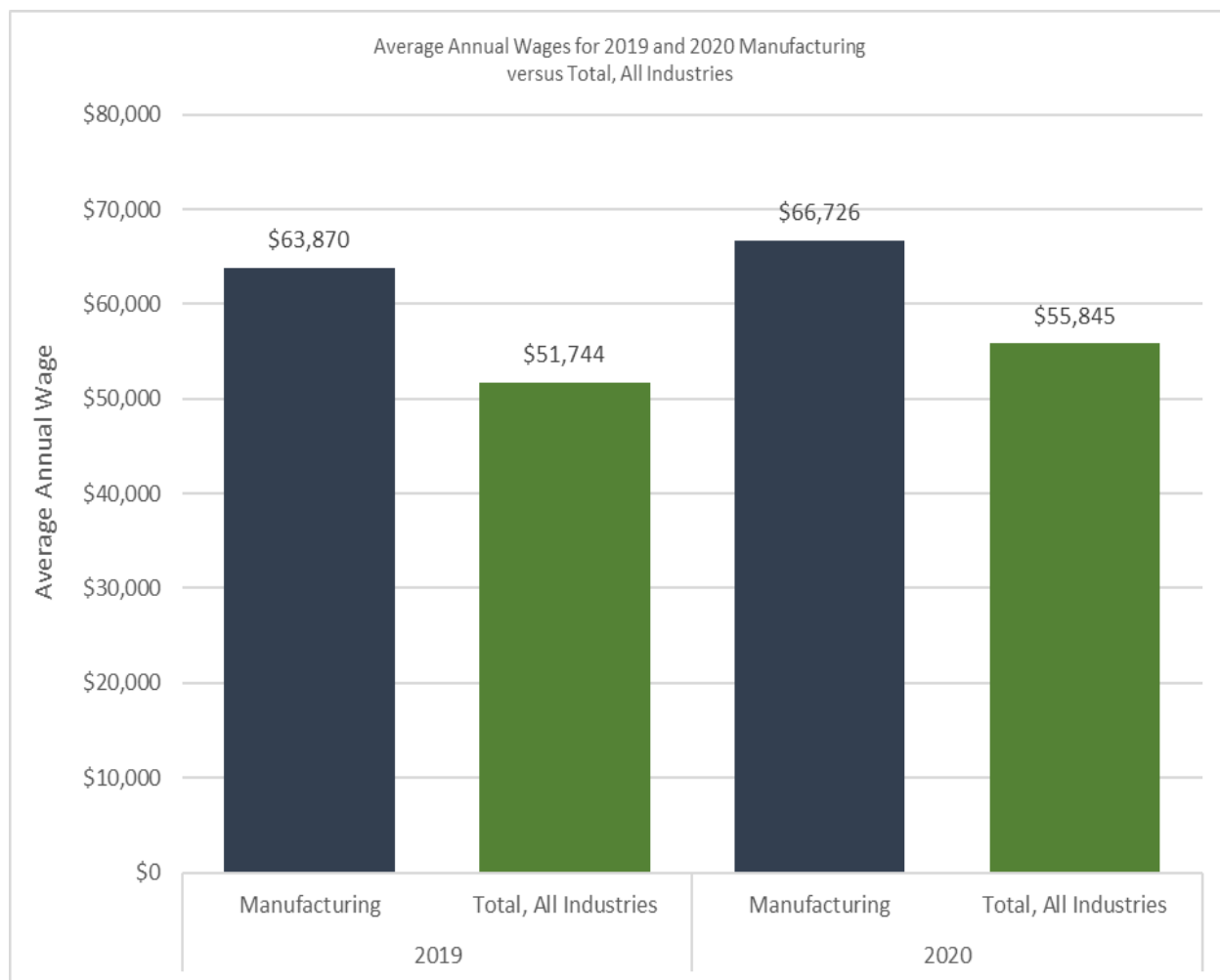
Nondurable goods manufacturing had 7,459 establishments in 2020 that accounted for 117,786 jobs. Employment was down (-3,736 jobs, -3.1 percent) over the year.

The largest industry subsectors in nondurable goods manufacturing in 2020 were: Food Manufacturing (33,494 jobs), Chemical Manufacturing (24,024 jobs), and Printing and Related Support Activities (15,486 jobs). These three subsectors accounted for 62.0 percent of nondurable goods manufacturing employment and 19.4 percent of total manufacturing employment.



Source: Florida Department of Economic Opportunity, Bureau of Workforce Statistics and & Economic Research, Quarterly Census of Employment and Wages Program (QCEW).

Nine of the eleven nondurable goods manufacturing subsectors lost jobs over the year in 2020. Printing and Related Support Activities (-1,523 jobs, -9.0 percent) and Apparel Manufacturing (-835 jobs, -22.9 percent) lost the most jobs from 2019 to 2020, while Chemical Manufacturing (+570 jobs, +2.4 percent) gained the most jobs.



Source: Florida Department of Economic Opportunity, Bureau of Workforce Statistics and Economic Research, Quarterly Census of Employment and Wages program (QCEW).

The Manufacturing industry cluster’s 2020 average annual wage increased less than the average wage for all industries over the year and grew at a slower rate. The 2020 average annual wage for the Manufacturing industry cluster was \$66,726, an increase of \$2,855 (+4.5 percent) from 2019. The average annual wage for all industries grew by \$4,101 (+7.9 percent) over the year.

The Manufacturing industry cluster’s 2020 average annual wage exceeded the average annual wage for all industries by \$10,881 (+19.5 percent). The wage gap has narrowed slightly since 2019 when it was \$12,126 (+23.4 percent).

The Computer and Electronic Product Manufacturing subsector had an average annual wage of \$97,005 in 2020, the highest in Manufacturing. Textile Product Mills had the lowest average annual wage in 2020 (\$42,089). Eleven of the 21 manufacturing industries had a 2020 average annual wage greater than the average for all industries (\$55,845), and nine industries had an average annual wage greater than \$60,000.



## All Education and Training Levels

### Top Occupations in the Manufacturing Industry Cluster for All Training Levels\*

Occupation Title	Employment		2020-2028 Change		% of Industries Total	2020 Median Hourly Wage	Training Requirement
	2020	2028	Total	Percent			
<b>Total, All Manufacturing Industries Occupations</b>	<b>380,905</b>	<b>391,697</b>	<b>10,792</b>	<b>2.8</b>		<b>\$18.07</b>	
First-Line Supervisors/Managers of Production	15,533	16,295	762	4.9	4.1	\$27.48	HS Diploma or GED
Packaging and Filling Machine Operators and Tenders	12,953	14,211	1,258	9.7	3.4	\$13.51	HS Diploma or GED
Sales Representatives, Wholesale and Manufacturing	10,221	10,734	513	5.0	2.7	\$26.05	HS Diploma or GED
Laborers and Freight, Stock, and Material Movers	8,817	9,310	493	5.6	2.3	\$13.87	No formal education credential required
Inspectors, Testers, Sorters, Samplers, and Weighers	8,459	7,548	-911	-10.8	2.2	\$18.82	HS Diploma or GED
Welders, Cutters, Solderers, and Brazers	8,115	8,696	581	7.2	2.1	\$19.39	HS Diploma or GED
Industrial Engineers	7,724	8,541	817	10.6	2.0	\$39.21	Bachelor's Degree
Truck Drivers, Heavy and Tractor-Trailer	7,511	7,817	306	4.1	2.0	\$19.54	Postsecondary non-degree
Machinists	7,134	7,614	480	6.7	1.9	\$20.18	Bachelor's Degree
General and Operations Managers	6,061	6,319	258	4.3	1.6	\$42.13	Bachelor's Degree
Shipping, Receiving, and Traffic Clerks	6,041	5,798	-243	-4.0	1.6	\$15.47	HS Diploma or GED
Printing Press Operators	5,320	5,012	-308	-5.8	1.4	\$15.70	HS Diploma or GED
Mixing and Blending Machine Setters, Operators, and Tenders	5,111	5,488	377	7.4	1.3	\$16.54	HS Diploma or GED
Industrial Machinery Mechanics	4,897	5,885	988	20.2	1.3	\$23.84	HS Diploma or GED
Helpers--Production Workers	4,872	5,090	218	4.5	1.3	\$13.21	HS Diploma or GED

\* The Top 15 table reflects the occupations synonymous with the particular industry and best represents the required set of skills. Though still counted in the total employment of the Manufacturing Industry, the occupations not included for 2020 were: Office Clerks, General (8,061 jobs) and Customer Service Representatives (6,112 jobs).

- The top 15 occupations (by employment) in the Manufacturing industry cluster made up 30.2 percent of total employment in manufacturing.
- The largest occupation in 2020 was First-Line Supervisors/Managers of Production, which has a median hourly wage of \$27.48.
- Median hourly wages among the 15 largest occupations range from a high of \$42.13 per hour for General and Operations Managers to a low of \$13.21 per hour for Helpers--Production Workers.
- Six out of the 15 largest employment occupations have a median wage greater than \$20.00 per hour.
- Twelve of the 15 largest occupations are projected to gain jobs through 2028.
- Packaging and Filling Machine Operators and Tenders (+1,258 jobs) is projected to gain the most jobs from 2020 to 2028, followed by Industrial Machinery Mechanics (+988 jobs). Inspectors, Testers, Sorters, Samplers, and Weighers (-911 jobs, -10.77 percent) is projected to lose the most jobs from 2020 to 2028.
- Four of the top 15 manufacturing occupations require training beyond high school. Higher wages are found in occupations with greater training requirements.



## Bachelor's Degree or Higher

### Top Occupations in the Manufacturing Industry Cluster for All Training Levels\*

Occupation Title	Employment		2020-2028 Change		% of Industries Total	2020 Median Hourly Wage	Training Requirement
	2020	2028	Total	Percent			
<b>Total, All Manufacturing Industries Occupations</b>	<b>69,279</b>	<b>71,956</b>	<b>2,677</b>	<b>3.9</b>			
Industrial Engineers	7,724	8,541	817	10.6	11.1	\$39.21	Bachelor's Degree
Software Developers	7,370	7,435	65	0.9	10.6	NA*	Bachelor's Degree
Industrial Production Managers	3,807	3,974	167	4.4	5.5	\$49.19	Bachelor's Degree
Mechanical Engineers	3,254	3,371	117	3.6	4.7	\$40.76	Bachelor's Degree
Electrical Engineers	2,541	2,614	73	2.9	3.7	\$46.03	Bachelor's Degree
Graphic Designers	2,337	2,324	-13	-0.6	3.4	\$23.11	Bachelor's Degree
Engineering Managers	2,124	2,172	48	2.3	3.1	\$66.13	Bachelor's Degree
Sales Representatives, Wholesale and Manufacturing	1,645	1,663	18	1.1	2.4	\$34.59	Bachelor's Degree
Engineers, All Other	1,498	1,548	50	3.3	2.2	\$46.42	Bachelor's Degree
Sales Managers	1,266	1,311	45	3.6	1.8	\$55.87	Bachelor's Degree
Employment, Recruitment, and Placement Specialists	1,155	1,175	20	1.7	1.7	\$26.85	Bachelor's Degree
Aerospace Engineers	1,151	1,198	47	4.1	1.7	\$51.30	Bachelor's Degree
Chief Executives	1,149	1,037	-112	-9.7	1.7	\$87.85	Bachelor's Degree
Financial Managers	1,114	1,259	145	13.0	1.6	\$56.78	Bachelor's Degree
Electronics Engineers, Except Computer	1,100	1,116	16	1.5	1.6	\$48.10	Bachelor's Degree

\*\* The Top 15 table reflects the occupations synonymous with the particular industry and best represents the required set of skills. Though still counted in the total employment of the Manufacturing Industry, the occupations not included for 2020 were: General and Operations Managers (6,061 jobs); Accountants and Auditors (2,781 jobs); Business Operations Specialists, All Other (1,023 jobs); and Network and Computer Systems Administrators (1,158 jobs).

NA\* (not available).

- Approximately 10.3 percent of employment in the Manufacturing industry cluster is concentrated in the top 15 occupations that require at least a bachelor's degree.
- The largest occupation (by employment) in 2020 that requires at least a bachelor's degree was Industrial Engineers, which has a median hourly wage of \$39.21.
- Among the top 15 occupations, median hourly wages for occupations that require at least a bachelor's degree ranged from a high of \$87.85 for Chief Executives to a low of \$23.11 for Graphic Designers.
- All 15 of the top occupations that require at least a bachelor's degree have a median wage greater than \$20.00 per hour.
- Thirteen of the 15 top occupations that require at least a bachelor's degree are projected to gain jobs through 2028.
- Industrial Engineers (+817 jobs) is projected to gain the most jobs of the top 15 occupations that require at least a bachelor's degree, followed by Industrial Production Managers (+167 jobs), and Mechanical Engineers (+117 jobs). Chief

Executives (-112 jobs, -9.75 percent) and Graphic Designers (-13 jobs, -0.56 percent) are two of the top 15 occupations projected to lose jobs from 2020 to 2028.

- Employment in the Manufacturing industry cluster is concentrated in the southeast, central, and northeast areas of the state with the largest number of jobs found in Miami-Dade, Pinellas, Orange, Broward, Hillsborough, Duval, Brevard, Polk, and Palm Beach counties.

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