



Manufacturing (Engineering)

ABOUT Jobs in Manufacturing (Engineering)

In the Manufacturing (Engineering) industry, you can choose from many options. You might design a new product or determine how the product will be made. Other options would be to make or manufacture the product or install and repair the product once it has been purchased. Examples:

Production and Process Development

In the Production pathway, you might work for large companies or small shops. You would create the parts needed to make products sold to consumers. Or, you would assemble the parts into products. In the Process Development pathway, you would be involved in design and planning new products. You would work with production workers to set up machines to turn out the new manufactured goods.

Maintenance, Installation, and Repair

Once products are sold and delivered to customers, workers in Maintenance, Installation, and Repair take over. You might install the product in a home or business. If there were problems with the item, you would be called upon to make repairs. Another option would be to make sure that the product is always working properly.

Quality Assurance

The production process may have many steps and products can have many parts. As a result, the work of employees in the Quality Assurance pathway is very important. You would make sure that manufactured goods meet the design standards and work properly and safely. If there are problems in production, you might be asked to find the cause and propose a solution.

Logistics and Inventory Control

For manufacturing to go smoothly, workers need the materials to make the products. If they have to wait, the company loses money. In the Logistics and Inventory Control pathway, you get materials to the production workers. You might order the items or check them in the company warehouse when they are delivered. Or, you might deliver the materials to the assembly area. In addition, you could pack and ship the finished products.

Health, Safety, and Environmental Assurance

People in the Health, Safety, and Environmental Assurance pathway help keep workers safe on the job. They make sure equipment is being used safely. They also make sure businesses are free of hazards and set up programs to keep workers safe.



Manufacturing (Engineering) STATS

| Sample Jobs | Hourly Wage Ranges in our Area* | | | Projected Growth in our Area** | Annual Openings |
|------------------------------------|---------------------------------|---------|---------|--------------------------------|-----------------|
| | 10% | Median | 90% | | |
| Industrial Machinery Mechanic | \$17.23 | \$24.87 | \$32.96 | 16.8% | MODERATE |
| Numerical Control Tool Programmer | \$17.06 | \$24.85 | \$36.98 | 17.7% | FEW |
| Numerical Control Machine Operator | \$14.68 | \$20.10 | \$34.37 | 14.8% | FEW |
| Production Helper | \$11.00 | \$11.57 | \$18.03 | 1.1% | HIGH |
| Quality Control Inspector | \$12.95 | \$18.82 | \$29.33 | .3% | HIGH |
| Machinist | \$15.30 | \$22.75 | \$31.50 | 7.8% | VERY HIGH |
| Industrial Engineer | \$25.78 | \$39.27 | \$58.49 | -.6% | MODERATE |

*The wage range shows the wage distribution for 90 percent of the workers in the occupation between the 10th percentile and the 90th percentile. Wages vary by employer, industry, and operator's education, skill level and experience.

**Employment and Outlook 2010-2020 Source: Bureau of Labor Statistics

This information, compiled by the Workforce Central I-Team, was extracted from sources listed in this document. The intention of this document is to provide you with a snapshot of the overall industry being featured, with relevant resources for conducting further investigation in your area(s) of interest. For questions and / or additional assistance, connect with a Career Counselor at your local Workforce Central Career Center. August 2017



Manufacturing (Engineering) Resources

General Labor Market Information and Research

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|---|--|--|
| Massachusetts Career Information System | Occupational and educational information to help people make better-informed career and school choices | www.masscis.intocareers.org |
| O*NET OnLine | National database of occupational information for career exploration and job analysis | www.onetonline.org |
| Bureau of Labor Statistics | Information and reports on labor market activity, working conditions, and price changes in the economy | www.bls.gov |
| JobQuest | Massachusetts database for finding jobs, locating training courses and vendors, searching events, and more | www.mass.gov/jobquest |
| Department of Labor and Workforce Development | Labor market information specific to Massachusetts with links to Largest Employers and Employer Locator Tool | www.mass.gov/lmi |
| Workforce Central Career Center | Central Massachusetts connection to job services, programs, events, resources, and more | www.workforcecentralma.org |

Resources Specific to Manufacturing (Engineering)

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| STEMPower | Massachusetts Hub for Science, Technology, Engineering, and Mathematics networking | www.stempower.org |
| Massachusetts Manufacturing Extension Partnership (MassMEP) | The go-to resource for manufacturing in Massachusetts that benefits the next-generation workforce by providing training for incumbent and unemployed workers | www.massmep.org |
| National Association of Manufacturers | Largest manufacturing association in the US representing small and large manufacturers in every industrial sector in all states | www.nam.org |
| Food Manufacturers | Largest food and beverage industry specific job board on the Internet with current food and beverage manufacturing jobs posted from hundreds of the industry's top companies and recruiters | www.careersinfood.com |

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