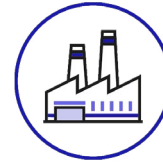
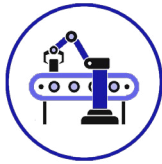


# MANUFACTURING

The manufacturing industry represents companies that, through the use of tools, human labor, machinery, and chemical processing, turn raw materials or parts into finished products that can be sold in the marketplace.



“The Bay Area’s manufacturing sector is alive and thriving, bringing innovation, creativity, and stability to our cities. As manufacturing evolves—getting cleaner, greener, and more advanced—it continues to help us build strong local communities by providing pathways to good, middle-class jobs.”

– Bay Area Urban Manufacturing Initiative (2021)



## Career Advisor Corner

### Representative Industry Occupations

Assembler	\$ 34,000–46,000	HS diploma
Machine Operator	\$ 39,000–50,000	HS diploma
Manufacturing Technician	\$ 39,000–56,000	AA/AS
Industrial Engineering Tech	\$ 39,000–56,000	AA/AS
Material Handler	\$ 35,000–46,000	HS diploma
Welders / Cutters / Solderers	\$ 47,000–62,000	HS diploma
CNC Programmer	\$ 50,000–66,000	Vocational
Buyer / Purchasing Agent	\$ 61,000–80,000	BA/BS
First-line Supervisor of Production Workers	\$ 73,000–108,000	AA/AS
Materials Engineer	\$ 78,000–95,000	BA/BS
Industrial Engineer	\$ 79,000–97,000	BA/BS
Industrial Production Mgr	\$ 111,000–151,000	BA/BS

You can climb a career ladder in manufacturing through work experience. You could, for example, start as an assembler, move to quality control, receive training as a machinist or welder, advance to engineer, then end as plant manager.

The Bay Area’s Advanced Manufacturing industry consists of a variety of subsectors, including food and beverage products, computer and electronic products, fabricated metal products, machinery, and advanced automotive manufacturing.

## Top Regional Employers by Manufacturing Sector

Company	Location
<b>Food &amp; Beverage</b>	
Gilroy Foods, Inc.	Gilroy
See's Candies	Daly City
<b>Semiconductors</b>	
Lam Research	Fremont
Intel	Santa Clara
Western Digital	San Jose
Sanmina	San Jose
Cypress Semiconductor	San Jose
Applied Materials	Santa Clara
<b>Medical Devices</b>	
Jabil	Fremont
Varian Medical Systems	Palo Alto
Cepheid	Sunnyvale
Intuitive Surgical	Sunnyvale
<b>Aerospace</b>	
Maxar Technologies	Palo Alto
Lockheed-Martin	Sunnyvale
<b>Fabricated Metals</b>	
Vander-Bend Manufacturing	San Jose
INTA Technologies	Santa Clara
<b>Automotive</b>	
Tesla	Fremont
NIO	San Jose

“ Manufacturing is more than just putting parts together. It's coming up with ideas, testing principles, and perfecting the engineering, as well as the final assembly. ”

– James Dyson  
Entrepreneur

### Career Guides & Industry Research

Association of Manufacturers Bay Area  
 AMBay Area Course Catalog  
 Bay Area Manufacturing Careers  
 Semiconductor Equipment & Materials International (SEMI)  
 SF Made

### Staffing Agencies

Adecco  
 AppleOne  
 ATR International  
 Randstad  
 ResourceMFG  
 Volt

### Job Boards

iHire Manufacturing  
 ManufacturingJobs.com  
 Manufacturing San Jose  
 Talroo

## Top Manufacturing Subsectors: 9-County SF Bay Area (2021)

Sector	Employment
Computer & Electronic Product Mfg	152,011
Transportation Equipment Mfg	27,658
Chemical Mfg	27,267
Food Mfg	26,454
Beverage & Tobacco Product Mfg	23,914
Machinery Mfg	23,357
Fabricated Metal Product Mfg	21,502
Miscellaneous Mfg	17,915
Electrical Equipment, Appliance, & Component Mfg	7,614
Nonmetallic Mineral Product Mfg	5,410

## Training Options

Advanced 3D CAD & Drafting	Optical Engineering
AutoCAD with SolidWorks	PCB Layout Design
Biotechnology Manufacturing Cert.	Procurement & Supply Chain Management
CAD SolidWorks/Creo	Retail Operation Specialist / Forklift
CAD Mechanical	SAP/ERP Sales & Distribution
CNC Machinist	Smart Manufacturing Technology
CNC Programming CAD/CAM	Supply Chain Management
Electronic Systems Technology	Warehouse & Forklift Operations
Inspection & Pipe Welding	Welding
Intro to CAD / 3D Printing	Welding Fabrication

