

# 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.



“As everyone is focused on AI, VR, and AR, we can’t forget that things still need to be made and built. Innovation and technology require physical components. There’s a huge opportunity for manufacturers to thrive in the area.”

– Christine Holly Ngo  
VP of Operations & Business Development at Silicon Valley Elite Manufacturing



## 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
Process Engineering Technician	\$ 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	\$ 67,000-125,000	Vocational
Buyer / Purchasing Agent	\$ 68,000-125,000	BA/BS
First-line Supervisor of Production Workers	\$ 90,000-116,000	AA/AS
Materials Engineer	\$ 88,000-151,000	BA/BS
Industrial Engineer	\$ 87,000-152,000	BA/BS
Industrial Production Mgr	\$ 129,000-171,000	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
<i>Food &amp; Beverage</i>	
Impossible Foods	Redwood City
See's Candies	Daly City
<i>Semiconductors</i>	
National Semiconductor	Santa Clara
Intel	Santa Clara
Applied Materials	Santa Clara
Marvel Semiconductors	Santa Clara
<i>Medical Devices</i>	
Abbott	South San Francisco
Intuitive Surgical	Sunnyvale
Cepheid	Sunnyvale
Johnson & Johnson	Milpitas
Medtronic Spine	Sunnyvale
<i>Aerospace</i>	
Maxar Technologies	Palo Alto
Lockheed-Martin	Sunnyvale
Northrop Grumman Systems	Sunnyvale
<i>Computer / Electrical</i>	
Apple	Cupertino
Oracle	Redwood City
Intel	Santa Clara
<i>Pharmaceutical</i>	
Genentech	South San Francisco
Gilead Science	Foster City
Beigene USA	San Mateo

“ 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                      Scion Staffing  
AppleOne                    Jonhson Service Group  
ATR International        Coast Personnel  
Randstad                    Aerotek  
ResourceMFG              Akraya  
Volt

### Job Boards

iHire Manufacturing  
ManufacturingJobs.com  
Manufacturing San Jose  
Talroo

## Top Hiring Companies (2023)

Gilead Science	Abbott Laboratories
Apple	Lockheed-Martin
Genentech	KLA Corporation
Intel	Beigene USA
Applied Materials	Northrop Grumman Systems
Headway Technologies	Siemens
Johnson & Johnson	Intuitive Surgical

Source: Econovue (2023)

Methodology: Companies were filtered by growing companies (actively hiring) within the NOVAworks consortium.

## Training Options

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

