



MANUFACTURING Toolkit

THE TOP FIVE **UTAH** INDUSTRIES THAT OFFER HIGH DEMAND, HIGH WAGE JOBS ARE:

- CONSTRUCTION
- ENGINEERING
- HEALTH CARE
- INFORMATION TECHNOLOGY & COMPUTER SCIENCE
- MANUFACTURING

INFORMATION AND VIDEOS ARE INCLUDED IN THIS TOOLKIT FOR THE **MANUFACTURING INDUSTRY**

Manufacturing Fast Facts:

- ▶ Did you know that there are over 500 manufacturing companies in our state? 80+ of those are Outdoor Manufacturing companies.
- ▶ In 2015, the average manufacturing worker earned \$79,553 annually, including pay and benefits.
- ▶ Manufacturing accounts for nine percent of the workforce.
- ▶ The manufacturing industry is very closely connected with product engineering and industrial design.
- ▶ Manufacturers report a moderate to serious shortage of qualified applicants for skilled and highly skilled production positions.
- ▶ Utah manufacturing includes the following sectors:
 - food manufacturing
 - natural products
 - outdoor products
 - energy-petroleum, coal, natural gas
 - chemical
 - composites and advanced materials
 - aerospace
 - fabricated metal
 - computer/electronics
 - pharmaceuticals.



Key Processes in Manufacturing



Mass Production

Most manufacturing plants use mass production - including humans and robots.



Product Design

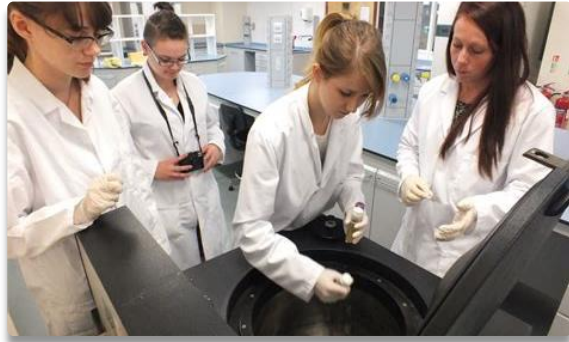
A single person or a team can design the product to be manufactured.



Product Development

It takes creativity, problem solving, decision making to regularly update or make changes in the product.

Key People on the BUSINESS side of Manufacturing



RESEARCH TEAM

A RESEARCH TEAM is constantly looking for ways to improve the product and stay ahead of the competition.



MARKETING TEAM

A MARKETING TEAM is needed to ensure that there will be a constant demand for the product.



STATISTICIAN

A STATISTICIAN recommends the price for the product after carefully reviewing every expense in producing the product.

The **IM FLASH** Manufacturing Process

Located in Lehi, Utah, IM Flash is a manufacturing company that creates 3D xPoint memory. Their technology is cutting-edge, and their products impact our every day life. Visit www.imflash.com to find out more about this remarkable company and to view their job openings and the qualifications, education, and experience required to work in the various positions this company needs.



Temkin International - Flexible Packaging Manufacturing

Temkin's world headquarters is in Payson, Utah. Their facility spans over 360,000 square feet -- approximately the size of eight and a half football fields. Here, the company enjoys the capacity to process over two million feet of material per day. With an impressive 30-year track record, Temkin International, Inc. is the nation's largest floral packaging manufacturer and is a leader in the retail packaging industry. To see available jobs:
<http://commercial.temkininternational.com/about-us/jobs/>





UTAHMAJORS.ORG

Click the link above to be taken to a website where you can research a college major in MANUFACTURING!

Using [UtahFutures.org](https://utahfutures.org) to explore EDUCATION & CAREER options in **MANUFACTURING**

- ✓ Find information about the program of study that interests you.

[Choosing a Program of Study](#)

- ✓ Connect your program of study to schools that provide education and training (e.g. majors and minors).

[Degree Finder - Programs of Study Search](#)

- ✓ Connect your program of study to careers!

[Occupations Search](#)

Exploring CAREERS in MANUFACTURING



**Utah Department of Workforce Services
Website:**

Utah Occupational Explorer Tool

This tool can be used to easily explore, filter, and compare occupations in Utah and then view a detailed profile and list of current job openings for each one. There are 4 primary dimensions upon which occupations can be compared – demand, wages, growth, and education.



**United States Department of Labor –
Bureau of Labor Statistics Website:**

Career Outlook Information

Provides data on wages, projected job openings, and education and training required for the different career fields found in the United States.