



# 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](http://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.