

# Advanced Manufacturing Career Pathway

9,727 Employers

200,000 Workers

\$62,900 Average Wage

## What are Career Pathways?

Career Pathways are a sequence of training and education programs designed to develop a person's academic and technical skills. By obtaining stackable credentials and developing new skills a worker can advance over time to successively higher levels of education and employment in a given industry or occupational sector.

## Why Have a Career in Advanced Manufacturing?

Advanced Manufacturing creates the products people need and want. From clothing to computers, almost everything we touch throughout the day is manufactured. Advanced Manufacturing represents 8.6 percent of total private sector employment in Missouri, employing over 200,000 workers across 9,727 businesses in 2017. Employment in Advanced Manufacturing has been steadily growing, increasing at an annualized 3.5 percent per year from 2012 to 2017. With a location quotient of 1.32, Missouri has high employment concentrations in Advanced Manufacturing, particularly in Motor Vehicle and Transportation Manufacturing. Wages in Advanced Manufacturing averaged \$62,900 in 2017, higher than the \$47,810 state average for all industries.

Advanced Manufacturing encourages creativity and analytical thinking, with the opportunity for a meaningful and rewarding career with good pay and advancement in **Production**, **Business Operations**, and **Engineering and Maintenance**.



## Who's Hiring?

Boeing  
Eaglepicher Tech., Inc.  
Emerson Electric Co.  
LMI Aerospace  
Orbital ATK

## Know the Basics

Advanced Manufacturing is defined as technology-intensive producers and the industries that support them. Soft skills, such as interpersonal skills, professionalism, and dependability, are important in all industries and occupations, including Advanced Manufacturing occupations. Manufacturing jobs can revolve around shifts and production quotas so dependability, along with being flexible when the situation demands, is a valued characteristic. Manufacturing careers can involve interactions with customers so customer service skills, such as being able to talk about benefits of a product or service, or accept criticism as a professional company representative, are important. Safety issues and quality control are also a critical part of this industry so attention to details and continuous learning are necessary.

In addition, Advanced Manufacturing has a set of industry-wide technical competencies that represent the knowledge and skills needed to be successful in this industry. Manufacturing Process Design and Development, Maintenance and Repair, Knowledge and Compliance of Government Regulations, and the ability to adapt and consider new ways of doing things are some of the skills needed for success.



## Later

<b>Bachelor's Degree or Advanced Degree</b>	<b>Industrial Production Managers</b> Entry: \$71,430 Avg.: \$101,000	<b>General Operations Managers</b> Entry: \$57,360 Avg.: \$106,730  <b>Sales Managers</b> Entry: \$76,040 Avg.: \$133,120  <b>Sales Reps, Tech &amp; Scientific</b> Entry: \$54,250, Avg.: \$84,320  <b>Purchasing Agents</b> Entry: \$64,560, Avg.: \$45,400	<b>Mechanical Engineers</b> Entry: \$66,350 Avg.: \$86,360  <b>Electrical Engineers</b> Entry: \$73,490 Avg.: \$94,530  <b>Industrial Engineers</b> Entry: \$65,960 Avg.: \$86,620
	<b>Degrees:</b> Engineering, Business Administration & Management	<b>Degrees:</b> Business Administration & Management, Marketing, Engineering, Logistics	<b>Degrees:</b> Engineering

## Next

<b>Long Term On-the-Job Training, Certificate, Associate's Degree</b>	<b>Machine Operators</b> Entry: \$22K-\$34K Avg.: \$30K-\$42K  <b>Tool &amp; Die Makers</b> Entry: \$43,880 Avg.: \$58,590  <b>First-Line Superv. of Production Workers</b> Entry: \$41,920 Avg.: \$57,630  <b>CNC Programmers</b> Entry: \$39,610 Avg.: \$51,140	<b>First-Line Superv. of Non-Retail Sales Workers</b> Entry: \$49,660, Avg.: \$71,560  <b>Executive Administrative Assistants</b> Entry: \$44,750, Avg.: \$57,460  <b>Sales Reps, Wholesale &amp; Manufacturing</b> Entry: \$37,930, Avg.: \$63,700	<b>Mechanical Engineering Techs</b> Entry: \$37,960, Avg.: \$53,490  <b>Electrical Engineering Techs</b> Entry: \$49,320, Avg.: \$62,330  <b>Industrial Machinery Mechanics</b> Entry: \$40,560 Avg.: \$54,310  <b>Mechanical Drafter</b> Entry: \$39,640 Avg.: \$51,900  <b>Industrial Engineering Techs</b> Entry: \$42,650 Avg.: \$61,840
	<b>Certificates:</b> Forklift Operator, Machine Operator, CNC Machinist Technology	<b>Degrees:</b> Business Administration & Management	<b>Degrees:</b> Engineering  <b>Certificates:</b> Industrial Maintenance, CAD Certificate

## Now

<b>Short Term On-the-Job Training</b>	<b>Helpers-Production Workers</b> Entry: \$22,280 Avg: \$29,080	<b>Customer Service Representatives</b> Entry: \$25,850, Avg.: \$34,530	<b>Helpers-Installation, Maintenance, &amp; Repair Workers</b> Entry: \$22,200 Avg.: \$29,700
	<b>Certificates:</b> Forklift Operator Certification	<b>Certificates:</b> Business Administration	<b>Certificates:</b> Industrial Maintenance

Sources:  
 Burning Glass Technologies Labor/Insight™ tool  
 Employment and Training Administration, Competency Model Clearinghouse  
 2017 Occupational Employment Survey Wage data, Bureau of Labor Statistics.  
 Quarterly Census of Employment and Wages, U.S. Bureau of Labor Statistics



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