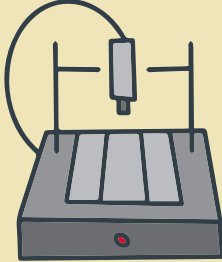








MANUFACTURING

CAREER MAP

	HIGH SCHOOL DIPLOMA/ EQUIVALENCY	VOCATIONAL CERTIFICATE (1-2 YEARS)	ASSOCIATE'S DEGREE (2-3 YEARS)	BACHELOR'S DEGREE (4 YEARS)
PRODUCTION	Machinists Production Coordinators Computer-Controlled Machine Operators Tool and Die Makers Electrical Equipment Assemblers General Assemblers Warehouse Workers	 CNC Machine Programmers	Laboratory Technicians	Production Supervisors 
ENGINEERING	Survey and Mapping Technicians	HVAC Technician Robotics Technician	Mechanical Engineering Technician Electrical Engineering Technician Industrial Engineering Technician	Mechanical Engineers Architectural and Engineering Managers Electrical Engineers Manufacturing Engineers Industrial Engineers
QUALITY ASSURANCE AND MAINTENANCE	Industrial Machinery Mechanics Electrician Helpers Maintenance and Repair Technicians Machinery Maintenance Workers Quality Assurance Technicians		Electricians	Quality Assurance Analysts Industrial Production Managers
SALES AND MANAGEMENT	Customer Service Representatives			Sales Representatives General Managers Sales Managers Cost Estimators Logisticians

The Manufacturing sector comprises establishments engaged in the mechanical, physical, or chemical transformation of materials, substances, or components into new products. Manufacturing establishments include plants, factories, mills, bakeries, wineries, breweries, and more.

NOTE: PATHWAYS WITH NO OCCUPATIONS LISTED UNDER AN EDUCATION LEVEL INDICATES NO HIGH-GROWTH OCCUPATIONS AT THAT LEVEL



MANUFACTURING

CAREER MAP

	DESCRIPTION	SKILLS, CERTIFICATIONS, AND EXPERIENCE	NUMBER OF JOB POSTINGS (2018)	AVERAGE SALARY RANGE
PRODUCTION	Workers in the Production pathway are the makers and builders of goods. These roles play a vital part in the building of products. While technological advances have shifted the day-to-day tasks of many of these jobs, businesses still are in great need of candidates who can work these oftentimes laborious jobs.	Physical Abilities Communication Skills Detail-Oriented Microsoft Office Experience Forklift Operator Certification	5,700	\$28,500 - \$63,600
ENGINEERING	Engineering is the branch of science and technology tasked with the design, building, and use of engines and machines. Workers in engineering roles may design and build robots, electrical systems, machinery, and more. Jobs in engineering are in very high demand.	Repair Skills Communication Skills Teamwork Skills Project Management Experience AutoCAD Experience	1,100	\$39,800 - \$147,300
QUALITY ASSURANCE AND MAINTENANCE	Quality Assurance is the process of ensuring that products and systems are implemented with quality care; maintenance roles are in place to ensure that when processes do go wrong, they are fixed swiftly. These jobs are in high demand in the manufacturing field as businesses need to ensure top-notch production of goods, and when issues do arise, there are expertly trained staff on-hand to fix the machines or systems.	Troubleshooting Skills Communication Skills Microsoft Office Experience Repair Experience	600	\$30,800 - \$114,800
SALES AND MANAGEMENT	Sales and management are an increasingly important role in the manufacturing sector. Businesses are growing their capacity to sell their products to wholesalers and retailers and need professional staff to procure and sell products.	Customer Service Skills Teamwork Skills Sales Experience Microsoft Office Experience	2,500	\$36,700 - \$148,400

Sources: JobsEq, 2018; Burning Glass, Labor Insights, 2018; NAICS.com, 2019 Mecklenburg County