

MANUFACTURING		
Job Title	Description	Day In the Life
Automation & Robotics	Specialists in this role design, program, and maintain automated systems and robots that improve manufacturing efficiency. They ensure machines operate smoothly, troubleshoot issues, and make adjustments to optimize production processes.	Automation technicians and robotics engineers spend their day programming, testing, and adjusting robotic systems. They might start with a review of overnight production logs to identify any machine errors or inefficiencies. Throughout the day, they troubleshoot issues, update software, and perform routine maintenance on equipment. Some time is spent working closely with production teams to optimize robotic workflows and ensure smooth integration with other machines.
CNC Technician	CNC (Computer Numerical Control) Technicians operate and program machines that cut, drill, and shape materials with high precision. They play a crucial role in creating parts and components used in various industries, requiring skills in programming, quality control, and equipment maintenance.	CNC Technicians typically begin by reviewing blueprints or job orders to set up their machines for the day. They input precise measurements and program machines to cut or shape materials accurately. Throughout the shift, they monitor the CNC machines to ensure each piece is produced to exact specifications, making adjustments as needed. Routine checks for machine maintenance and quality inspections are integral parts of their day, as is keeping detailed records of production outputs.
CAD/CAM Drafter	CAD (Computer-Aided Design) and CAM (Computer-Aided Manufacturing) Drafters use specialized software to design and model products and parts. Their work ensures that designs are ready for manufacturing, often working closely with engineers to make products more efficient and cost-effective.	A CAD/CAM Drafter spends most of the day on specialized software, designing models and creating technical drawings that guide manufacturing processes. They start by collaborating with engineers and designers to understand project requirements and constraints. Then, they build 3D models and run simulations to ensure designs meet specifications. Some time is also spent reviewing designs with production teams to make any necessary adjustments before production.
Chemical Process Technology	Professionals in this field manage the chemical processes involved in manufacturing products, often in industries like pharmaceuticals, plastics, and food production. They oversee equipment and processes to ensure safety, quality, and efficiency.	Chemical process technicians begin the day by inspecting equipment and ensuring that all machinery is functioning properly. They monitor production processes, often using software to track pressure, temperature, and flow rates of chemicals used in manufacturing. Safety is a key focus, so they regularly check for leaks or contamination risks. Adjusting process controls and troubleshooting equipment issues to maintain quality standards are common tasks throughout the day.
Electrician (for plant maintenance)	Plant Maintenance Electricians install, maintain, and repair electrical systems in manufacturing facilities. They troubleshoot issues, ensure safe wiring, and keep machines operating efficiently to prevent downtime.	A plant maintenance electrician's day often begins with a walk-through of the facility to check for any visible issues with electrical systems. They respond to service requests from production teams and troubleshoot electrical faults or equipment failures. Tasks might include installing new wiring, repairing circuit breakers, or adjusting control panels. They often work with high-voltage systems and prioritize safety. Documenting repairs and scheduling preventive maintenance are key parts of their routine.
HVACR Technician (for facility climate control)	HVACR (Heating, Ventilation, Air Conditioning, and Refrigeration) Technicians manage the climate control systems within facilities, ensuring proper temperature and humidity for both employee comfort and equipment performance.	HVACR Technicians start their day by reviewing any temperature or climate control complaints from the previous shift. They inspect and maintain HVAC systems, ensuring optimal performance for both comfort and equipment protection. Tasks include checking air filters, troubleshooting system errors, and adjusting settings to maintain climate consistency. They frequently inspect boilers, cooling towers, and other components, recording data to keep track of system health and preemptively address any issues.
Machinist	Machinists create precision metal parts using tools like lathes, milling machines, and grinders. They interpret blueprints, set up machinery, and make adjustments as needed to produce high-quality components with exact specifications.	Machinists start their day by setting up machines such as lathes, milling machines, or grinders. They interpret blueprints to determine the dimensions and tolerances for each component, then carefully adjust tools and calibrate equipment. Throughout the day, they monitor each machining process, ensuring the parts meet strict specifications. Precision is key, so machinists often inspect completed parts using measuring tools and keep records of their work.
Tool & Die Maker	Tool and Die Makers create tools, molds, and dies used in manufacturing to shape and form metal or other materials. Their skills are essential for producing parts used in products and manufacturing processes.	Tool and Die Makers begin their day by reviewing blueprints and discussing the requirements for new tools or dies with the engineering team. They select materials, set up machining tools, and start crafting or assembling dies, molds, or specialized tools. Throughout the day, they use precision measuring devices to check each component's accuracy and make adjustments to ensure a perfect fit for the production process. Maintenance on existing tools and troubleshooting issues in the production line are also common tasks.
Welder	Welders use specialized equipment to join metal parts through welding techniques such as MIG, TIG, and stick welding. This role requires precision, attention to safety, and the ability to interpret technical drawings.	Welders start by setting up their workstations, preparing materials, and reviewing project requirements. Their day involves a lot of hands-on work with various types of welding equipment, such as MIG, TIG, or arc welders, to join metal pieces together. They often work with safety gear like helmets and gloves and spend time inspecting their welds to ensure they're strong and meet project specifications. Collaboration with other team members to fit parts together and ensure alignment is also common.