



**BUILDING VALUE SINCE 1906**

**Position:** Manufacturing Engineering Senior Technician

**Location:** North Hollywood, California

**SUMMARY:**

Assists Manufacturing Engineers with projects in developing, and improving manufacturing processes. The Manufacturing Engineering Senior Technician will also assist Manufacturing Engineers with designing, building and documenting fixtures and tools. Perform equipment maintenance, updating process documentation, and department clerical work

**TYPICAL FUNCTIONS AND RESPONSIBILITIES:**

Include the following. Other duties may be assigned.

Complies with safety regulations and makes supervisor aware of unsafe work practices or conditions.

Uses safe practices and follow lock out/tag out procedure.

Exhibits basic knowledge of the use of safety equipment and safe working practices.

Complies with policies and guidelines of the Bobrick's Four Level Defect Grading System.

Assist department with production equipment projects:

- Programs, diagnoses and troubleshoots PLC applications. Investigate and address PLC related issues.
- Sets up, operates, and programs CNC equipment using CAD/CAM software. Troubleshoot CAD/CAM related programming issues.
- Build testers, fixtures and production tools used in manufacturing cells

Perform machine and equipment design, upkeep, and improvement:

- Identify and troubleshoot process, material, or equipment problems to minimize down time and recommend solutions to Manufacturing Engineering.
- Create, assemble, procure or modify existing and new tooling, fixtures, and equipment to ensure efficient production processes.
- Assist Manufacturing Engineers with revisions and improvements to manufacturing methods and procedures, including writing change orders, field complaints, and deviations.

- Assist Manufacturing Engineers in the development and assembly of new manufacturing equipment. This may include mechanical assembly, connection of pneumatic devices, installation and wiring of electrical and electronic devices, and functional testing.
- Creates, maintains, and updates "Visual Manufacturing Procedures" as needed.
- Design jigs, fixtures, and basic in-house automation projects using AutoCAD and/or SolidWorks.
- Reads schematics, assembly drawings, data sheets to perform testing, build and trouble-shoot equipment.

Perform data analysis in support of data driven decision making and lean manufacturing to improve production processes:

- Promotes and supports Lean Manufacturing and Continuous Improvement activities in Manufacturing.
- Researches and collects data to support Manufacturing Engineering projects and analyzes data as requested/needed using software such as Excel.
- Assist in the preparation of charts, graphs, and diagrams to illustrate workflow, routing, floor layouts, material handling, and machine utilization.
- Modifies and maintains manufacturing documents, spreadsheets and databases.
- Assist in the failure modes analysis and troubleshooting of non-conforming manufactured product to determine root cause. Document findings.
- Perform tests, gathers data, performs analysis and write results/reports with supervision from Manufacturing Engineers.
- Complete time studies to quantify processing times, recommend standards, and identify areas for process improvements.

Support industrial automation and Industry 4.0 integration projects:

- Help manufacturing engineer(s) to develop and implement Industry 4.0 projects.
- Help to set up, maintain, program, and troubleshoot industrial and collaborative robots. Provide training to operators if needed.
- Help with the integration of manufacturing data systems such as MES, MRP, and other "smart factory" initiatives.
- Program, set up, maintain, and troubleshoot basic machine vision applications and provide training to production operators if necessary.
- Help the Manufacturing Engineering department to advance greater deployment of automation and robotics, Industrial Internet of Things, and data driven operational excellence.

Provide general technical support to Manufacturing, Manufacturing Engineering and other departments:

- Provide technical assistance to other Departments such as Assembly, Machine Shop, Dispensers, TPF, Shipping, Engineering, Quality Assurance, and Manufacturing Management.
- Maintains and updates department files, which consists of product and tooling drawings, layouts, routers, and reference materials including reference library. The files exist as both hard copy, and electronic files.

## QUALIFICATIONS

- Associate's Degree or equivalent in engineering, technology or related field with five years of related experience, or equivalent combination of education and experience. Familiarity with machinery and production equipment
- Minimum five years of experience in a Manufacturing/Production environment working within a technical role.
- Understanding of GDT (Geometric Dimensioning and Tolerancing). Knowledge of AutoCAD and SolidWorks. Basic CAD/CAM experience. Basic mechanical design knowledge.
- Using and understanding of general test and measurement equipment, torque wrenches, force gages, caliper etc.
- Strong mathematical skills and knowledge of basic statistical tools.
- Woodworking knowledge and/or Machine Shop knowledge, knowledge and experience in the fabrication of sheet metal products, and molded plastic parts. Knowledge of sheet metal stamping, dies, and tooling.
- Basic knowledge of Electrical/Electronics.
- Understanding and experience with Industrial Robotics, Vision Systems, and/or automation.
- Strong PLC programming knowledge.
- Experience with Microsoft Office (Word, Excel, PowerPoint, and Outlook).
- Strong project and time management skills, be able to complete tasks and projects with limited supervision. Be capable of managing several projects and tasks at one time and completing assignments on time as instructed.
- Strong writing skills.