

To provide technical expertise and leadership in the design and development of manufacturing processes through process systems design, machine design, selection and automation. Prepares design specifications, analysis and recommendations for presentation and approval. Provides technical direction as required and interfaces with all levels of staff to ensure that processes and designs are compatible. Plans technical projects and researches, evaluates, develops, defines and implements complex equipment design. Identifies problem areas and selects methods and techniques for arriving at solutions as well as design for cost and manufacturability.

### **PRIMARY RESPONSIBILITIES**

- Conceive, develop, and implement new processes to advance product offerings, improve efficiencies, increase productivity, or improve quality.
- Evaluate and determine feasibility of new process concepts as it relates to proposed or existing systems or products.
- Assist in the implementation of process controls as specified in the control plan including, but limited to: process potential studies, process capability studies, and process control studies.
- Utilize high-level analytical troubleshooting and problem-solving abilities to bring manufacturing process into compliance and to identify opportunities for cost reduction, lead-time reduction, and quality improvement
- Assist in the specification and selection of material solutions for existing and new products that can be produced economically and according to established project timetables.
- Assist in product sampling and trials for new and enhanced processes to assure proper performance and approvals prior to production release.
- Provide engineering and technical support for the installation, debug and setup of automated equipment and tooling on new processes.
- Ensure all technical documentation is kept current and is available to support integration for new and existing manufacturing process systems.
- Develop, execute and maintain assigned projects as it relates to budgets, deliverables, timetables and coordination.
- To maintain and place requisitions for equipment, parts and tooling as relates new process development.
- Notify Supervisor of safety-related problems or issues.
- To clean and maintain a secure and safe work environment.
- Keeps abreast of industry developments and augments own knowledge and skills to competently practice and apply.
- Some travel required
- Must complete 40 hours, annually, of Technical Skills Development.

### **EDUCATION AND/OR EXPERIENCE**

- Requires a Bachelor of Science in Mechanical, Manufacturing, Material Science, or Industrial Engineering

- Three years of experience required in process definition, design, scale-up, support, improvement and validation
- Strong working knowledge of plastics as it relates to properties and structures, manufacturing methodologies, joining, and forming preferred
- Must have experience with testing and proving process capabilities
- Must be technically knowledgeable in tooling, processing, materials and equipment

#### **PHYSICAL DEMANDS/WORK ENVIRONMENT**

While performing the duties of this job, the employee is regularly required to sit, stand, use hands, reach with hands and arms, and talk and hear. The employee may lift/or move up to 30 pounds. Specific vision abilities required by this job include close vision, depth perception, and ability to adjust focus. The noise level in the work environment is occasionally loud.