

Manufacturing Engineer: Principal Manufacturing Engineer

Designs and plans layout for such activities as machining, metal forming, plastics processing, welding and brazing, assembly, and materials handling. Adapts machine or equipment design to factory and production conditions. Plans for the arrangement of machines within plant facilities to ensure most efficient and productive layout. Plans sequence of operations and specifies procedures for the fabrication of tools and equipment and other functions that affect product performance. May incorporate inspection and test requirements into the production plan. Inspects performance of machinery, equipment, and tools to verify their efficiency, and investigates and initiates corrective action of problems and deficiencies to ensure product quality. Develops manufacturing processes that are applicable to statistical process control, and may develop those techniques. Provides guidance to Engineering regarding design concepts and specification requirements to best utilize equipment and manufacturing techniques.

Discretion/Latitude

Works under consultative direction toward predetermined long-range goals and objectives. Determine and pursue courses of action necessary to obtain desired results. Completed work is reviewed from a relatively long-term perspective, for desired results.

Knowledge, Skills and Abilities

Applies advanced technical principles, theories and concepts. Contributes to the development of new principles and concepts. Identifies, analyzes and develops new business opportunities. Answers unusually complex technical questions regarding products and services, and takes part in putting together proposals, configurations and product offerings.

Problem Solving

Works on unusually complex technical problems and provide solutions which are highly innovative and ingenious.

Impact

Develops technological ideas and guides their development into a final product. Erroneous decisions or recommendations would typically result in failure to achieve critical project objectives. Leads the planning and implementation of large projects/programs. Contributes to department goals and planning efforts.

Liaison

Serves as organization spokesperson on projects and/or programs. Acts as advisor to management and customers on advanced technical research studies and applications.

Minimum Education and Experience

12+ years with BS in designated Engineering or related field. Employees usually have advanced degree in field of specialization.