

## **Job Description for an Automation Manager in the Materials & Technology Group**

### **PURPOSE:**

This position commonly reports to the Materials & Technology Manager and may perform one or more of the following engineering functions: project planning, technical problem solving, process engineering, defect reduction, quality engineering, including improvement activities.

Incumbent takes responsibility for interpreting, planning, organizing, executing, coordinating, and tracking progress of automation and robotics projects for the materials and technology group. Also provides expert judgment and analysis for the design, development and implementation of products, processes, plans and procedures relating to automation and robotics. Plans and directs automation and robotics projects concerned with unique and diverse problems which have an important effect on major programs or products within the company. This involves exploration of subject area, definition of scope, and selection of problems for investigation and development of novel concepts and approaches. Plans, supervises, coordinates, and monitors the work of a staff of engineers and technicians; estimates manpower needs; and schedules and assigns work to meet completion date

Effective decisions will typically result in: considerable financial benefit to the company, increased quality and consistency through repeatable manufacturing processes

May supervise other engineers and/or technicians on an ongoing basis or as needed for the term of assigned projects.

### **ESSENTIAL JOB FUNCTIONS:**

- Participate in the concurrent engineering process internally and externally with customers.
- Responsible for preparing process specifications, requirements compliance, and customer interface on production information for manufacturing.
- Interaction with customers
- Manufacturing process review Establish development timetables and 4 blockers for specific projects.
- Participate in correcting engineering related problems.
- Review customer drawings and specification changes for impact.
- May supervise other engineers or technicians on assigned projects.
- Supervise the development of technique cards, process control procedures, and standard work instructions relating to automation equipment/processes
- Ability to work individually and/or contribute to team initiatives.
- Ability to calculate financial benefit of projects.
- Must have or acquire adequate SIX Sigma knowledge or training
- Time management of multiple projects.
- Must be able to lead a diverse group (engineers, technicians, sales, manufacturing)
- Be responsible for annual cost savings projects totaling 3x the employee's salary
- Effectively coordinate and communicate with manufacturing to complete projects.
- Be able to prioritize projects based on impact to production.
- Be willing to investigate new solutions but also have technical know-how of how to direct project.
- Be able to handle long-term, multi-year projects with short-term, high pressure projects.
- Must have knowledge of investment casting process, typical defects, and production methods used in the investment casting industry
- Must have understanding of the impact of front end process variability on the quality of resultant castings.

- Must show capability to maintain, or create, and supervise a group of engineers and technicians that are able to perform in a team environment while personal accountability and individual growth is encouraged

**EDUCATION AND QUALIFICATIONS:**

- Requires a BS degree in engineering with 10+ years of relevant experience or an MS degree in engineering with 5-7 years of relevant experience
- Minor or AS in computer science is preferred
- Broad knowledge of mechanical, industrial, computer science engineering along with investment casting technology
- Knowledge and demonstrated ability in engineering principles and disciplines; employed manufacturing processes; statistical analysis (data correlation); technical report and article preparation; preparing specifications; ability to define, plan, and complete major projects; ability to supervise/direct activities of professionals with diverse expertise
- Experience with design of robotic systems, safety assessments, machine vision systems, CAD/CAM software, robotic simulation software, Statistical programs, Microsoft Office, Microsoft Project, Solidworks, Unigraphics or Catia skills, computer programming is preferred.

Years of Experience: 10+

Level of Education: Bachelors Degree