TALON

Ultra-High Purity Component Specialists

Position Description

Title: Manufacturing Engineer

Major Role:

Participate in manufacturing process from concept through production with the responsibility of ensuring manufacturability at the lowest possible cost using current manufacturing processes. Identify and implement process and ergonomic improvements to improve operator safety, product quality, product cost, capacity and throughput. Investigate applications for new technology to meet long term production goals.

Responsibilities:

1. Communicate effectively with Manufacturing Engineering Department personnel to ensure a cooperative work environment.
2. Identify future tooling and capital requirements for budget preparation.
3. Capital acquisition identification, justification and implementation.
4. Participate in the overall strategic design and direction of CNC processes.
5. Communicate project status to all affected persons and Manufacturing Engineering Department including time frames, budget status and any new developments an/or problems that relate to each project.
6. Assist with directing College Interns and Technicians.
7. Maintain current files of engineering specifications for applicable machines.
8. Work with external legal firm to acquire patents to protect special processes and intellectual property.
9. Investigate new methods of manufacturing/ technology to improve current processes, increase capacity and throughput and meet long term production goals.
10. Design machine changes as required to meet new product specifications and/or improve current process, ergonomics, product quality and/ or increase capacity and throughput.
11. Coordinate with suppliers and Operations the design, manufacture and implementation of new tooling machines/technology. Coordinate the installation, debugging and startup of new tooling, machines/technology.
12. Develop flexible equipment with modular designs where possible.
13. Responsible for documenting and tracking all cost reduction ideas.

14. Develop human resource requirements to operate new machines/technology and work with Operations Manager to prepare for machine/technology startup, training and production.
15. Perform all assignments in a timely manner and within all company policies while treating people with dignity and respect.
16. Assist in make vs. buys analysis.
17. Generate/maintain issue log for manufacturing machining centers. Generate and implement solutions to issues and communicate status of issues on regular basis.
18. Define preventative maintenance for equipment and coordinate with Maintenance Department and operators on how and when to perform preventative maintenance activities.
19. Perform all other related duties as assigned or required.

Key Performance Indicators:

- Successful completion of projects. Success determined by project criteria (time, budget and output).
- Takes initiative to implement unplanned but necessary changes.

Core Competencies

- Technical Skills
- Communication Skills
- Team Participation
- Initiative
- Ergonomic Skills
- Customer Service Skills

Personal and Professional Qualifications:

- Bachelors Degree in Mechanical or Manufacturing Engineering or related field with an emphasis in programmable logic controllers robotics and CAD preferred.
- Knowledge in DFM, ergonomics, PLC's, and CAD systems preferred.
- Experience in plant layout and material flow analysis a plus.
- Strong problem solving skills.
- Must be adept at word processing and spreadsheet programs; Microsoft Project experience preferred.
- Team player in projects and active participant in manufacturing teams.
- Must have good oral, written and interpersonal communication skills.
- Two years related experience preferred.

Supervision Given:	None
Supervision Received:	Manufacturing Engineering Manager
Travel:	< 25%
Department:	Manufacturing Engineering