

Manufacturing Engineer - Tooling Design Emphasis

The Role:

KEC is seeking experienced and qualified Manufacturing Engineers with particular strength in the design and fabrication of mechanical assemblies for tooling and test equipment. Your primary role will be to lead the design, manufacture, assembly and verification of tooling to support machine shop, metal forming, weld, composite fabrication, NDE and test of space developmental and flight hardware. You must love all things mechanical and be passionate about design and manufacture. Depend on the project phase you'll also be given the opportunity to perform design engineering and product manufacturing engineer and project management roles. Our desire is to encourage and develop the best, most competent manufacturing engineers in the industry. We're an engineering driven company and our effectiveness is directly a function of the quality of our design and manufacturing engineers.

- Bachelor's degree from an accredited institution, with a concentration in a relevant Engineering discipline plus minimum of three (3) years on the job mechanical design experience.
- High school diploma or GED with 7+ years of role related experience may be substituted for above formal education. Practical machine shop, fabrication and tooling training or apprenticeship and advantage.
- Highly competent in mechanical component and/or tooling design (3D CAD-based) with leading CAD software. Creo/ProE an advantage but if you've got the and mechanical design skills we'll train you.
- Great working knowledge of GD&T and machining of metals.

Responsibilities - Tooling emphasis:

- Manage the design, build and delivery of production and R&D tooling
- Work with engineers, operators and quality to optimize manufacturability and affordability.
- Interpret technical documents from engineering and execute the most effective sequence and methods of manufacture.
- Create, revise, and maintain planning documents to produce tooling which conform to design configuration and specifications.
- Create cost estimates for requested and continually seek manufacturability and affordability improvements.
- Provide project management to ensure work plan execution for both internal and outsourced builds, beginning from releasing work orders through delivery to customer - first right time, on-time and at or below budget.

Manufacturing Engineer - Tooling Design Emphasis - continued:

- Request raw materials and hardware from purchasing directly from blue prints as applicable. Work with purchasing to release purchase orders for outside services and fully outsourced work.
- Interface with engineering, quality, manufacturing and procurement in resolving any hold factors inhibiting the release of plans and completion of parts
- Work with shop personnel to ensure work instructions are accurate and comprehensible. Resolve discrepancies arising from incorrect paperwork or other related problems.
- Work with suppliers to ensure on-time delivery and quality of outsourced parts
- Work with management to identify risks and opportunities.
- Provide technical leaderships in resolving problems and developing methods and techniques for assured department capability
- Experience with complex parts utilizing multi-axis milling and turning technology
- Welding, metal forming and metal processing background, i.e. Heat-Treating, Metal Forming an advantage.
- Knowledge of composites an advantage.
- Strong understanding of NC programming, CMM programming, and PLC programming.
- Pareto analysis, root cause and corrective action experience an advantage.

Additional Requirements:

- Ability to work overtime if required and weekends as needed.

Job Location:

Long Beach, CA, USA

Personal Requirements:

You will have a high level of integrity, respect others and understand the need of complete confidentiality with respect to our company proprietary information and that of our customers.

ITAR Requirements:

To conform to U.S. Government space technology export regulations, applicant must be a U.S. citizen, lawful permanent resident of the U.S., protected individual as defined by 8 U.S.C. 1324b(a)(3), or eligible to obtain the required authorizations from the U.S. Department of State. KEC is an Equal Opportunity Employer; employment is governed on the basis of merit, competence and qualifications and will not be influenced in any manner by race, color, religion, gender, national origin/ethnicity, veteran status, disability status, age, sexual orientation, gender identity, marital status, mental or physical disability or any other legally protected status.