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## Mechanical Manufacturing Engineer

**Pay Range:** To be determined based on experience and capabilities.

**Summary:** Develops and continuously improves manufacturing processes. Is highly proactive in coordinating the various fabrication related projects and product development activities in house; as well as liaise with quality external service providers and suppliers with the objective of securing the lowest possible cost, highest quality material and reliability in maintaining short delivery times.

**Essential Duties and Responsibilities:** include the following. Other duties may be assigned.

- Evaluates manufacturing processes by designing and conducting research programs; applying knowledge of product design, fabrication, assembly, tooling, and materials; conferring with equipment vendors; soliciting observations from operators.
- Develops manufacturing processes by studying product requirements; researching, designing, modifying, and testing manufacturing methods and equipment; conferring with equipment vendors.
- Improves manufacturing efficiency by analyzing and planning workflow, space requirements, and equipment layout.
- Assures product and process quality by designing testing methods; testing finished- product and process capabilities; establishing standards; confirming manufacturing processes.
- Provides manufacturing decision-making information by calculating production, labor, and material costs; reviewing production schedules; estimating future requirements.
- Prepares product and process reports by collecting, analyzing, and summarizing information and trends.
- Completes design and development projects by training and guiding technicians.
- Hands-on with various fabrication/production methods and with a good understanding of welding and brazing with code implications.
- Prepares a "make-versus-buy" analysis for each fabrication operation and advising on the most cost-effective choice.
- Develops a plan with project management schedule and budget controls to build our capacity.
- Contributes to team effort by accomplishing related results as needed.

**Education and/or Experience:** Bachelor's degree (B. S.) in Manufacturing or Mechanical Engineering or related degree from four-year College or university.

**Language Skills:** Ability to read and interpret documents such as safety rules, operating and maintenance instructions, and procedure manuals. Ability to write routine reports and correspondence. Ability to speak effectively before groups of customers or employees of organization. Ability to interpret a variety of instructions furnished in written, oral, diagram, or schedule form.

**Mathematical Skills:** Ability to work with mathematical concepts such as probability and statistical inference, and fundamentals of plane and solid geometry and trigonometry. Ability to apply concepts such as fractions, percentages, ratios, and proportions to practical situations. Ability to solve practical problems and deal with a variety of concrete variables in situations where only limited standardization exists.

**Computer Skills:** Must have knowledge of Database software; Design software; Internet software; Inventory software; Manufacturing software; Project Management software; Spreadsheet software and Word Processing software.

**Other Skills and Abilities:** Basic understanding of ISO/AS9100, Geometry Dimensional & Tolerances

**Other Qualifications:** Material Science knowledge (preferred), Experience in Manufacturing, Lean Manufacturing

To apply, please send your resume to [info@vpei.com](mailto:info@vpei.com) and [cindya@vpei.com](mailto:cindya@vpei.com) and include the name of the job you are applying for.