



MECHANICAL ENGINEER

Southern California manufacturer of Pressure Vessels, Environmental Control Units (ECU's) and Mobile Power Generators for tactical military systems seeks a full time experienced Mechanical Engineer.

Job Summary / General Description:

This is an engineering position that requires the development of requirement compliant designs in a DoD contracting environment. The design activities range from cooling/heating load analysis, component selection and packaging and DFM. Documentation of designs and generation of CDRLs/SDRLs using DiD guidelines is also required.

Job Duties / Primary Responsibilities

- Review contract requirements, client technical specifications, proposals and all design data. Interpret and comprehend all pertinent information for various types of thermal management systems, including HVAC, chillers and heat exchangers for the development of cost effective, requirement compliant designs.
- Perform mechanical and structural calculations, prepare design details, produce/review fabrication drawings and bills of materials and prepare performance analysis and operating/instruction manuals. Coordinate with other engineers as required.
- Maintain required program engineering design documentation.
- Interact with Program Managers, Engineering Manager, Refrigeration Engineers, other Design/Drafting Staff, and Sales group.
- Produce/review drawing packages and bills of material for procurement of components and manufacturing of systems.
- Prepare and issue Engineering RFQs/Requisitions and work with suppliers in selection and sizing of components.
- Prepare Installation and/or Operation Manuals and submit to client for review and approval.
- Prepare technical content and follow-up with customers during proposal and project stages.
- Complete mechanical design and required mechanical analysis. Support discussions on quality assurance requirements and construction materials with the external customer, as well as, internal customers such as engineering, sales, procurement and manufacturing.
- Develop new ideas and design concepts in order to improve productivity and reduce cost.
- Check and provide comments as necessary on detailed vendor drawings.
- Participate in meetings to review the progress against the management plan and discuss potential delays or schedule improvement.

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- Work with the Program Manager regarding contract changes that result in price additions or deducts, scope variations that could have an impact on cost, quality, or delivery schedule.
- Develop and maintain requirement compliance matrices and validation/verification matrices for programs.
- Develop test plans, procedures and reports for programs

Education Requirements:

- BS or MS in Mechanical or Electrical Engineering or related engineering degree, and 5-8 years of directly related work experience. BS in Math and/or Physics will be considered based on candidates' skills and experience

Desired Experience:

- Experience in mechanical design and operating parameters HVAC/Chiller products is a plus.
- Experience with diesel generator design a plus
- Experience in performing finite element analysis (FEA) is a plus.
- Working knowledge of ASME & AWS standards.
- Experience in government contracting to include CDRL/SDRL development using DiD guidelines.
- Experience as a systems engineer in a DoD contracting environment is a plus.
- Hands on experience working in a job-shop environment is a plus.

Certification & Licenses:

- Professional Engineering (PE) license is a plus.
- Certification in AutoCAD and SolidWorks design software is a plus.

Computer Skills / Software Knowledge:

- Proficient in Drafting: Solid Works, AutoCAD, CATIA
- Strong knowledge of Microsoft Word, Excel, and Power Point

Travel Requirements:

Some travel may be required.

Please include your resume and salary history. Resumes without salary history will not be considered.

In order to conform to Government technology export regulations (ITAR), applicants must be US citizens or permanent residents (Green Card holders).

Applied Companies offers a competitive salary & benefits package.