Job Description – Mechanical Design Engineer

Reports to: Engineering Manager

# of Reports: None

Overview:
Blue Sea Systems and its affiliated company, Terra Power Systems, design and manufacture electrical system components for boats, vehicles and renewable energy applications, worldwide. The engineering teams create devices for electrical distribution, protection, measurement, control, and safety enhancement in both DC and AC applications.

The Mechanical Design Engineer will work with other engineers and internal company personnel to define product specifications, develop conceptual and final design solutions, manage and coordinate project activities, support existing product offerings, and perform testing/analysis of new and existing products.

General Duties:
1. Lead in preparation of product definitions and specifications.
2. Participate in mechanical product design including product specifications, material selection, CAD design, and detailed product drawings.
3. Design, implement and test new products to achieve desired features and specifications.
4. Document designs for product support and efficient development of successive product generations.
5. Interface effectively with marketing and customers to ensure implementation success.
6. Interface with other company departments to ensure effective communications of new product development and continuing engineering activities,

Experience and Education Required/Desired:
1. B.S. in Mechanical Engineering (BSME), M.S in Mechanical Engineering (MSME) preferred
2. Minimum 5-10 years experience with incremental technical and project leadership responsibilities.

Skills Required:
1. Technical skill and knowledge of mechanical engineering, including mechanism and thermal engineering.
2. Extensive design knowledge with molded plastic parts, metallic castings, sheet metal. Desired: working experience designing products that involve electrical distribution, control, or protection.
3. Strong Solidworks 3D design background / proficiency.
4. Test and analysis experience including design of test plans, instrumentation usage and failure analysis.
5. Project management experience including developing project plans and time lines, tracking project progress, expediting external action items. Familiarity with stage gate and/or APQP a plus
6. Excellent communications skills – must interface successfully with other engineers, non-technical personnel and with customers to define and later deploy products.
7. Demonstrated initiative in solving challenging problems.
8. Ability to rapidly learn new concepts with little to no supervision.
9. Knowledge of boats, marine electrical systems and components is a plus.

Benefits
Blue Sea Systems offers a compensation package that includes profit sharing, medical, vision and dental insurance, 401K program with company matching, paid vacation, Paid Time Off, 8 paid holidays per year and a collaborative working environment in a company with a 20 year record of consistent growth and profitability.

Salary Range
Open - Initially dependent on experience, thereafter on performance