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## ***Product Development Engineer (Blowers, Fans, Motors)***

**Company Information:** East West Manufacturing (EW) is a rapidly growing global manufacturing service company. EW manufactures products for a number of industries with industrial supply being our primary focus. Headquartered in North Atlanta, EW has offices and facilities in China, Vietnam and India that specialize in a wide range of manufacturing disciplines including air and water moving products, plastic injection molding, metal fabrication, electronic assembly, and AC motor assembly. EW's primary services are engineering design, manufacturing, quality assurance, logistics, and warehousing. EW's U.S.-based management and engineering combined with its international capabilities ensures that customers reduce the risks and complexities of offshore manufacturing. EW is seeking dedicated employees who are interested in a unique, fast-paced, and ever challenging environment with high growth opportunities. Please see our website at [www.ewmfg.com](http://www.ewmfg.com) for additional information.

**Job Description:** The Product Development Engineer will assist in the engineering and product design, including design for manufacturability and cost, of air and water moving products, plastic, metal, rubber and electronic assembly components. Position will support project from as early as design inception through product life cycle, and provide technical support in various manufacturing disciplines (including plastic injection molding and metal working). Assist effort for on-time prototypes and production launch of new or modified products. Communicate with customer for resolution of technical issues. Assist in the development of quality specifications for inspection and testing manufactured products based on engineering, consumer, and regulatory test standards. Position will be based in Atlanta and report to a Senior Product Development Engineer or the Vice President of Engineering. If you are looking for a dynamic role working on a variety of interesting projects, this position could be for you!

### **Responsibilities:**

- Will be responsible for multiple projects within the Air and Water Moving products division (blowers, fans, motors) of the engineering team representing full finished goods, sub-assembly, or single part projects and must manage schedules for timely completion.
- Utilize customer design concepts or detailed drawings/specifications to ensure manufacturable design, complete necessary documentation, lead New Product Introduction (NPI) process and issue production release
- Evaluate feasibility of manufacturing new and revised customer products

- Review, develop, modify and release technical documentation including mechanical drawings, schematics, bill of materials, PPAP submissions, and inspection procedures through the engineering change notification system
- Coordinate the development, prototyping, and initial production of products
- May support senior product development engineer on complex product development and NPI projects
- Communicate technical details of products with customers and to overseas engineering staff
- Manage project deadlines to achieve on-time documentation of product specifications, customer approval of sample submission, and production launch
- Create, review and modify 2D and 3D part and assembly drawings
- Maintain clear and prioritized task list for all project details using project management software
- Serve as technical and NPI schedule contact with customer
- Conduct testing/validation of prototypes and completion of internal and customer qualification requirements
- Implement ISO-compliant processes for NPI
- Sustaining support of parts in production via customer-driven or manufacturing-driven change management and technical resolution of quality issues
- Coordinate product sample submissions for consumer and regulatory agencies such as UL, CSA, IEC, ETL, and FCC
- Manage relationships with 3<sup>rd</sup> party suppliers
- Up to 20% domestic and international travel, including factory and customer visits

**Requirements:**

- Bachelor's Degree in Mechanical Engineering, Mechanical Engineering Technology, Aerospace/Aeronautical Engineering, or Materials Science
- Minimum 2-5 years direct professional experience with same or similar products, materials and manufacturing processes, including consumer and/or industrial product development and implementation. Experience with air and water moving products (blowers, fans, motors) preferred, but not required.
- Capable of working in a hands-on, fast-paced, evolving environment
- Strong analytical skills and detail oriented
- Experience with at least one of the following technologies: plastic injection or extrusion molding, rubber injection molding, metal casting, metal fabrication/forming/assembly, metal welding/plating/coating, metal stamping/precision machining
- Experience with AC motors preferred.
- Experience collaborating with manufacturing facilities in Asia (written and verbal communications)
- Experience with GD&T
- Experience with New Product Introduction (NPI) schedules, including rapid issue resolution and technical problem solving including root cause analysis.
- Good communication and analytical skills for interfacing with manufacturing, sales team and customers
- Ability to creatively solve problems (thinking outside of the box)
- Skilled using MS Office
- Experience creating and modifying drawings in Solidworks and Autocad
- Familiarity with regulatory test standards (ASTM, SAE, ASME, IEEE, UL, CSA, ISO, etc) preferred
- Experience using computer modeling/simulation techniques (CFD, FEA) preferred.
- Must enjoy and be successful working on a variety of dynamic projects.