



Edwards Vacuum Inc.

www.edwardsvacuum.com

Job Title: Sr. Mechanical Engineer
Location: Chelmsford, MA
Manager's Job Title: NPI ME Manager

<https://career5.successfactors.eu/sfcareer/jobreqcareer?jobId=41734&company=atlascpcoP>

Job Description:

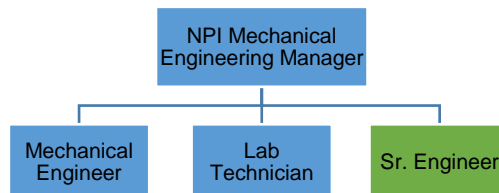
The Senior Mechanical Engineer will be a member of the New Product Introduction (NPI) team. He/she will lead engineering team in the design, analysis, testing, and validation of Refrigerators, Compressors and Pumps through full Product Life Cycle. This will involve developing and implementing innovative solutions. The role will create an impact to ongoing NPIs as well as Innovation Mapping for future NPIs.

Main Responsibilities:

Primary responsibilities:

- Lead New Product Introduction Projects related to Industrial Products including Pumps, Compressors, and Accessories.
- Innovate new products ideas and testing methodologies to support multi- generation product plan.
- Guide a team of engineers through Design, Technical Reviews, Modelling, Analysis, Verification, Validation, and Design Transfer
- Responsible for full lifecycle planning from System Level Requirements to Final Release of Product to Customers
- Work closely with other functions to ensure goals related product cost, product quality, and product lead times are met.
- Chair Design Reviews with Project Team and other SMEs. Document the findings and follow through on Actions and Decisions.
- Develop Test Plans that are aligned with the Performance Objectives driven by System Specifications.
- Work closely with Applications Engineers and Product Management Team to develop Technical Requirements Specifications
- Provide inputs to Multi-Generation Technology Plans, Multi-Generation Product Plans, and Competitive Assessment.
- Perform estimates of effort and duration for tasks, ensuring the design meets cost and schedule goals
- Publish White Papers, Technical Bulletins, and Engineering Reports to build Technical Knowledge Repository
- Develop novel system, product, and component concepts to develop intellectual property and file patents.

Organization Chart:



Requirements:

- Bachelor's Degree in Mechanical Engineering or related discipline with minimum of 5+ years of industrial experience
- Or MS degree in Mechanical Engineering or related discipline, a minimum of 3+ years of industrial experience
- Experience in leading Design Development projects in Industrial Products with OEMs (Original Equipment Manufacturer)
- Experience with GD&T, CAD Modeling, Material Selection, and Manufacturing Processes
- Extensive experience in Conceptual Designs, Prototyping, and Functional Testing on Industrial Products like Pump, Refrigerators, or Compressors
- Expertise with the Developing and executing Design Verification Test Methodologies at component and system level as well as Statistical Data Analysis for such tests
- Strong communication skills to communicate Technical Information to a broad range of audience including Cross-Functional Leadership Team
- Track record of having driven work assignments to completion, with accuracy and timeliness
- Excellent verbal and written communication skills
- Demonstrated ability to work in a cross-functional team
- Experience in Data Acquisition Systems used for Verification Testing including programming on tools like LabVIEW preferred
- Experience in material selection to achieve specialized functions such as low friction, sealing, and extreme temperatures preferred
- Certification and experience in Design for Six Sigma or comfort with statistical methods such as hypothesis testing, DOE, and SPC preferred
- Failure Analysis Experience and Manufacturing Support Experience in Products like Refrigerators, Pumps, and Compressors preferred

Job Scope:

- ✓ The position will be based in Chelmsford, MA with limited travel. In this role, the Sr Mechanical Engineer will work with a global team based in US, Mexico, Europe, and India
- ✓ Technical Leadership with strong foundation of Logical approach and Critical Thinking is a must
- ✓ Being able to work independently and guide the organization on Technical Problem Solving as well guide other engineers in the same areas.



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