

JOB DESCRIPTION

1. **Job Title: Mechanical Design Engineer**

2. **Dept. Name: Research & Development**

Functional Area: Research & Development

Reports to: Senior Mechanical Design Engineer

Date: November 2015

3. **Aerogen**

Aerogen Ltd, headquartered in Galway, Ireland are a young, dynamic and high growth organisation and are a world leader in respiratory drug delivery, treating patients; many of whom are on life support equipment. To drive this continued growth, the company has a need for a Mechanical Design and Development Engineer.

4. **Job Summary:**

- Design and Development of respiratory care medical devices to improve the lives of patients world wide

5. **Duties/Responsibilities:**

- Collaborate as a member of cross-functional project teams in developing products from concept through to commercialization.
- Conduct product design and development in accordance with CE & FDA regulations relating to medical device design and manufacture.
- Conduct product design in accordance with the project objectives with due consideration of project schedule, budget and risks.
- Conduct design for manufacture assessment involving manufacturing expertise to ensure that final design will support projected build quantity, yield, cost and performance requirements.
- Conduct use and design risk assessment, implementing controls or mitigations to reduce risk levels.
- Conduct and record proof of principle testing of prototypes to confirm feasibility of ideas and concepts
- Engage with clinicians and product users in their clinical setting to elicit user needs requirements
- Propose conceptual ideas utilising various tools and techniques to convey potential solutions to clinicians
- Conduct material selection taking into account the performance and biocompatibility requirements.
- Demonstrate expertise in engineering design tools using CAD (preferably Creo/Pro-E).
- Participate in supplier selection for tooling, component and device manufacture.
- Prepare technical documentation in clear and concise terms in accordance with good engineering practice.
- Liaise closely with the R&D, Science, Manufacturing, Operations, Quality, Sales and Marketing functions through the product development lifecycle.
- Maintain current working knowledge of the key international standards, regulations and regulatory guidance that govern the medical devices industry, medical electrical equipment and nebuliser devices.
- Perform other assigned tasks as directed by the Senior Mechanical Design Engineer or direct manager.

6. **Education/Experience:**

- BEng or equivalent in Mechanical Engineering with a minimum of 6 years mechanical design experience preferably in the medical device or consumer device industries.
 - Experience with Creo/Pro Engineer or equivalent CAD & styling/modelling software.
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7. Specific Requirements:

- Structured approach to problem solving based on sound engineering principles.
- Ability to develop analytical models and correlate experimental to theoretical results.
- Ability to clearly and convincingly communicate new ideas, concepts, issues and successes.
- Experienced with all the Microsoft Office software applications for generating office documents, spreadsheets, project plans, etc.

8. Environmental Conditions:

- Typical office environments, with work also performed in R&D and manufacturing labs, and customer/supplier locations.

Applications in confidence to:

Bernice Faherty
Aerogen Ltd
IDA Business Park
Dangan
Galway
Ireland

Closing date: 07th January 2016
