



Job Title: Senior Mechanical Engineer, Sure Petcare

Department: Mechanical & Product Design, Engineering

Position Location: Cambridge, UK

Requisition ID: SPC#013

Sure Petcare, the pet technology specialist, provides pet products that empower owners to care for their pets in entirely new ways. Founded in 2007, we have developed an award-winning range of microchip-operated pet doors and feeders, which solve many problems commonly experienced by pet owners. Sure Petcare, along with HomeAgain, is a Companion Animal portfolio of digital products within MSD Animal Health.

In 2017, Sure Petcare expanded its product range to include connected devices designed to provide proactive pet care by giving owners data and insight into their pets' day-to-day behaviours, activities and routines. Over time, this information will provide pet owners a greater understanding of their pet's health and well-being. Sure Petcare sells direct through retail stores and veterinary practices in 35 countries.

Through its commitment to the *Science of Healthier Animals*®, MSD Animal Health offers veterinarians, farmers, pet owners and governments one of the widest ranges of veterinary pharmaceuticals, vaccines and health management solutions and services as well as an extensive suite of digitally connected identification, traceability and monitoring products. MSD Animal Health is dedicated to preserving and improving the health, well-being and performance of animals and the people who care for them.

For more information, visit www.surepetcare.com

Job Description:

In this role you will be a member of the Mechanical and Product Design Team within the Engineering Department. You will participate in work on lifecycle and new product development products. This would include the following duties:

- Developing design concepts into reliable, cost effective and manufacturable engineered solutions
- Solving mechanical problems through engineering design; including developing and debugging mechanisms for use in electro-mechanical systems
- Evaluating mechanical characteristics such as strength and stiffness through the use of calculations from first principles and FEA simulation software
- Tolerance analyses to evaluate design sensitivities
- Component material selection
- Troubleshooting production and customer problems

- Creating and updating 2D drawings, BOMs and other production documentation
- Prototyping at component, sub-assembly and product level
- Overseeing or conducting mechanical product testing to assess reliability, function and performance
- Risk analysis and mitigation
- Evaluating off-tool component samples, identifying improvements & communicating this to suppliers
- Liaising with our factories & suppliers
- Presenting work and findings to the project team and other stakeholders
- Leading work on development projects and mentoring less experienced team members
- Other duties, as directed

Key Competencies:

- Experienced user of Solidworks 3D CAD & PDM
- Knowledge of DFM & DFA approaches
- Competency in applying mechanical engineering formulae to real life scenarios and running software simulations to predict component behaviors
- Creation of 2D technical drawings to industry standard such as BS8888
- Analyzing and interpreting test data
- Ability to find faults and resolve mechanical issues to achieve a high level of reliability
- Aptitude to team working and communicating in a fast paced environment
- Knowledge of the product development process

Qualifications:

Education Minimum Requirements

- 2:1 or above, Undergraduate degree in Mechanical Engineering, or related subject

Required Experience & Skills

- Minimum 10 years' experience working in the development of consumer products or a related industry sector
- Experienced in design for injection moldings, and overcoming problems in the molding process
- Demonstrable knowledge of the materials and production processes used in electro-mechanical consumer products
- Demonstrable knowledge of rapid prototyping techniques and technologies
- Demonstrable knowledge of the product development process and its stages within

Preferred Experience & Skills

- Tolerance analysis using RSS or other standard approaches
- Use of Solidworks FEA
- Previous mentoring or line management of junior team members
- Prior experience independently leading or managing projects

- Experience of tools and methodologies from six sigma
- Experience of the Agile methodology

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Job: Engineering

Travel: Yes; 5% Travel

Shift (if applicable): N/A

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