

Electrical Design Engineer

We are looking to appoint an Electrical Design Engineer, reporting to the Head of Engineering you will be an integral role within the team, based at our offices outside of Edinburgh.

The purpose of the role is to define, design, deliver and report on testing that is required for the prototype qualification and product certification. The role also assumes responsibility supporting electrical work packages for Sunamp's heat battery products.

A bit about us

The company designs and manufactures space-saving thermal storage solutions that make homes, buildings and vehicles more energy-efficient and sustainable, while reducing their carbon emission outputs and optimising renewables.

This is an excellent opportunity for the right candidate to join a rapidly expanding, award winning and innovative company. Having recently been awarded the first ever King's Award for Enterprise, this prestigious award is testament to our excellence in innovation and the exceptional performance of our products.

Positively contributing to energy efficiency and sustainable advancement is central to our operations and recognition of how our products achieve this will be vital to the role. Researching into who we are and what we do is a must for the candidate to better understand and appreciate the direction and history of the company. If this is a vision you share and are passionate about, and you believe you have the right skill set to succeed, this could be an important future role for you.

In addition to the challenges of engineering, you will be motivated to make a difference to the workplace culture and environment of continuous learning and improvement.

Excellence, pride in your reputation and supporting a collaborative workplace and culture are also vital in making this role a success.

Some of the integral responsibilities you will be involved with:

- Develop, maintain, implement and improve electrical systems and components relating to the Sunamp product and its applications, to meet electrical product standards and international compliance.
- Support projects to ensure that they meet electrical safety standards and requirements.
- Design, build, set-up and operate test apparatus to satisfy required project test needs.
- Instrument, log and collate all key test data as well as creating test reports.
- Author, manage, and maintain test documentation including test requests, procedures, calibration data and test reports.
- Support prototype manufacture and proof of concept qualification testing.

- Engagement with test houses and approvals bodies to define product certification requirements.
- Support inhouse/external testing to ensure compliance with certification requirements.
- Work with the New Product Introduction team to support designs, modifications and cost-down projects.
- Participate in design reviews, where a proactive approach to improvement of products will be expected.
- Support Sunamp Heat Battery products application with 3rd party electrical devices.
- Lead root cause investigations and implementation of corrective actions.

Additional supporting responsibilities you will deliver on are:

- Support the definition and development of Sunamp's electrical design strategy.
- Engage with customer technical requirements to establish the electrical design and implementation for the system and product.
- Concept generation, assessment, selection and development of electrical design solutions for integration within new Sunamp products and extensions to existing product range.
- Electrical and Electronics-related calculations, simulation, prototype build and prototype qualification.
- Understanding of PCB & Electrical hardware components function, layout, components and testing.
- Management, maintenance and calibration of Electrical tools and equipment.
- Prepare, manage and maintain departmental project documentation.

Who we are looking for:

The right candidate will be able to provide demonstrable evidence and talk in detail about their skills, experience, knowledge and understanding across the following criteria;

- 5+ year's experience within an Electrical Product Design environment.
- Hands-on practical experience designing, building, instrumenting and using test equipment.
- Basic understanding of thermodynamics, heat transfer and thermal properties of materials.
- Knowledge of Phase Change Materials and their use for Heat Storage is beneficial.
- Knowledge of thermal, heat management or HVAC systems and applications is beneficial.
- Knowledge of both Analogue and Digital design is beneficial.
- Knowledge of Electrical Design for household products.
- Desirable experience of using electrical equipment and managing contractors for facilities works.
- Awareness of new product introduction processes and product lifecycles.
- Proven experience working within multi-disciplined projects teams and delivering technical solutions to quality, schedule and cost targets.
- Excellent communication and presentation skills.

- Experience working within a disruptive technology start-up company is beneficial.
- Excellent team player and the ability to collaborate effectively with others.
- Adaptability and readiness to positively challenge existing practices and find alternatives.
- An awareness of Six Sigma and Lean methodologies is beneficial.
- Awareness of ISO 9001, 14001, 18001.
- Degree Qualified in an Electrical Engineering discipline, equivalent experience or studying towards this.

Expected personal qualities and behaviours:

- Requires minimal direction to undertake the role and supports departmental decision making.
- Seeks continuous self-improvement and ability to self-manage.
- Maintains composure during stressful situations and whilst undertaking difficult tasks.
- Confident interacting with key stakeholders, customers and able to influence others.
- Shares knowledge and provides helpful feedback to accelerate the development of others.
- Communicates clearly, concisely, and respectfully.
- Always well prepared and proactively arrives to problems with solutions.
- Constructively challenges status quo and recommends new improved methods/solutions.
- Interacts well with other departments and is considered an excellent team player.
- Naturally curious, creative, innovative and has excellent attention to detail.
- Logical thinker able to comprehend complex systems.
- Recognises the importance of harnessing an inclusive workplace environment.
- Able to respect and work with and show a commitment to Sunamp cultural values.

As a company we take your development and progression seriously and look forward to helping develop your skillset as we grow.

Sunamp is an Equal Opportunities Employer. The company is committed to equal employment opportunities regardless of age, sexual orientation, gender, pregnancy, religion, nationality, ethnic origin, disability, medical history, skin colour, marital status, genetic information or parental status. We base all our employment decisions on merit, job requirements and business needs.