

Mechanical Engineer

Our Engineering team are looking to appoint a Mechanical Engineer, to be based at our head office in Macmerry, in the outskirts of Edinburgh. Reporting to the Head of Engineering the role will be pivotal in the definition, ideation, development and launch of new and modified products.

The ideal candidate will have sound knowledge of thermodynamics, heat transfer and thermal properties of materials and manufacturing processes. Working experience of 3D Modelling using Autodesk or equivalent is also essential and you would ideally understand PCM and their use for heat storage.

Working with Business development teams both in the UK and overseas, the candidate will be skilled in understanding customer requirements and translating these into viable opportunities for Sunamp.

Degree and above qualified in a relevant engineering discipline, with a minimum of 3 years' experience in a similar field.

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.

Based in Macmerry and working closely with the Engineering team, you will be pivotal in the definition, ideation, development and launch of new products and modifications or extensions to Sunamp's existing product range. Key to this will be the implementation of value engineering initiatives.

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 areas you will be involved with:

- Upfront generation and assessment of new product and technology ideas.
- Customer technical engagement to establish application requirements and rapid concept generation to support new business development.
- Conduct calculations, 3D modelling, drawings and simulation.
- Harness experience of thermodynamics, materials and manufacturing processes to enhance Sunamp products.
- 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.
- Support Supply Chain/Production initiatives and new product volume ramp-up.
- Creation of required product documentation and manage technical construction files.
- Support the integration and verification of product within application.
- Define opportunities for value engineering/continuous improvement and take lead to drive through to implementation.
- Prepare departmental and project documentation.
- Identify potential patentable ideas and support the process of Intellectual Property protection.
- Identification of potential new applications for Sunamp products.
- Present project progress updates to senior management/leadership team.
- Support root cause investigation and implementation of corrective actions.
- Support new business development through Sales support and customer presentations.

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;

- Knowledge of current and novel design tools, materials and manufacturing processes.
- 3D modelling, drawing and simulation experience using Autodesk Inventor or equivalent.
- Understanding of thermodynamics, heat transfer and thermal properties of materials.
- Knowledge of thermal, heat management or HVAC systems and applications within different market sectors is beneficial.
- Experience with thermal system calculations, modelling and simulation.
- Experience within an innovative product development environment.
- Proven experience working within multi-disciplined projects teams and delivering technical solutions to quality, schedule and cost targets.
- Excellent communication and presentation skills.
- Ability to effectively collaborate with and persuade others.

- Adaptability and readiness to positively challenge existing practices and find alternatives.
- An understanding of Six Sigma and Lean methodologies is beneficial.
- Awareness of ISO 9001, 14001, 18001 and TS 16949
- Knowledge of Phase Change Materials and their use for Heat Storage is beneficial.
- Degree Qualified in a relevant Engineering discipline.
- Advanced degree in a relevant Engineering discipline beneficial.

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.