

Senior Mechanical Engineer

Our Engineering team are looking to appoint a Senior Mechanical Engineer, based at our head office in Macmerry, on 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.

You will be an experienced engineer with a 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.

Degree and above qualified in a relevant engineering discipline, ideally chartered status, you will have a minimum of 7-10 years' experience in a similar field, with an understanding of grant funded projects.

The role would be suited to a candidate working in a mid-senior level engineering role, with the ability and also desire to lead teams during a period of rapid growth and change.

Within the business you would act as a champion for knowledge sharing and learning, possessing the attributes needed to mentor, supervise and inspire future engineers.

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. As a

Senior team member you will also assume the role of mentor, helping to nurture the learning and development of students, graduates, technicians and apprentice engineers.

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:

- Lead the upfront generation and assessment of new product and technology ideas.
- Lead customer technical engagement to establish application requirements and rapid concept generation to support new business development.
- Create, manage and present technical project plans.
- Conduct/oversee/review calculations, 3D modelling, drawings and simulation.
- Harness experience of thermodynamics, materials and manufacturing processes to enhance Sunamp products and to educate others.
- Oversee prototype manufacture and proof of concept qualification testing.
- Lead engagement with test houses and approvals bodies to define product certification requirements.
- Oversee inhouse/external testing to ensure compliance with certification requirements.
- Support Supply Chain/Production initiatives and new product volume ramp-up.
- Lead creation of required product documentation and manage technical construction files.
- Lead integration and verification of product within application.
- Define opportunities for value engineering/continuous improvement and take lead to drive through to implementation.
- Coach, mentor and/or supervise Students, Graduates, Technicians and/or Engineers and conduct performance appraisals as appropriate.
- Prepare, review and approve departmental and project documentation.
- Identify potential patentable ideas and lead process of Intellectual Property protection.
- Identification of potential new applications for Sunamp products.
- Present project progress updates to senior management/leadership team.
- Lead 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;

- In-depth knowledge of current and novel design tools, materials and manufacturing processes.
- Extensive 3D modelling, drawing and simulation experience using Autodesk Inventor or equivalent.
- Ability to successfully manage and lead teams.

- Detailed understanding of thermodynamics, heat transfer and thermal properties of materials.
- Knowledge of thermal, heat management or HVAC systems and applications within different market sectors.
- Skilled with thermal system calculations, modelling and simulation.
- Experience within an innovative product development environment and or grant funded project.
- Managed multi-disciplined project teams and delivered technical solutions to quality, schedule and cost targets.
- An understanding of Six Sigma and Lean methodologies and experience of application.
- Knowledge of ISO 9001, 14001, 18001 and TS 16949.
- Experience of working with Phase Change Materials and their use for Heat Storage beneficial.
- Assisted or previously lead on grant-funded technical projects.
- Excellent communication skills ability to present clearly and articulate well in writing.
- Collaborates closely with colleagues, to help support a culture of continuous improvement.
- Adaptability and readiness to positively challenge existing practices and find alternatives.

Expected personal qualities and behaviours:

- Act as a technical and behavioural leader
- Assumes initiative, implementing agreed strategies and supportive of team decision making and areas of responsibility.
- 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.
- Capable of leading project meetings and making key presentations.
- Shares knowledge and provides helpful feedback to accelerate the development of others.
- Communicates clearly, concisely, and respectfully.
- Naturally optimistic with a solution led mindset.
- 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.