



Job Specification

Job Title:	Chief Engineer	IS-11-12
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Main Purpose of the Role

To work with the Chief Technology Officer and product team to push forward the engineering design, analysis, simulation, test, and drawings for rapidly developing products and systems within the Isentropic Pumped Heat Storage System.

Main Duties / Responsibilities

- To work closely with the CTO to drive forward the design of a Pumped Heat Storage System
- To lead the design team and coordinate design activities
- To analyse designs from for structural and thermal performance
- To propose and develop engineering design solutions
- To evaluate design concepts and component designs using the ANSYS program suite and, where necessary, to develop in-house solutions using Excel, VBA etc
- To support the definition, design and development of test rigs
- To source and liaise with specialist external technical consultants
- To ensure that products are developed to achieve compliance with design objectives
- Resolving manufacturing issues in the early stages of product design and development
- To coordinate the activities of drawing and drawing control.
- To check drawings from SolidWorks models ready for manufacture.
- To liaise as necessary with all the relevant internal company departments.
- Willing to work additional hours as required and occasionally work off site.

Skills, Experience and Personal attributes

- Innovative and creative design leader with solid understanding of Engineering principles
- Proven ability to lead complex design tasks
- Developed people skills
- Good eye for detail and knowledge of manufacturing processes
- Knowledge in mechanics/materials/stress analysis/fluid dynamics will be of particular interest.
- Experience in the use and understanding of Ansys, Excel, VBA, SolidWorks
- Proven ability to lead and coordinate a technically capable design and development team
- Presentation of technical information to the senior management team.
- Self starter, able to work with a minimum of supervision.
- Ability to adapt style to different individuals / environments.
- Ability to develop designs within a constantly evolving technology.
- High levels of drive and tenacity to achieve development and project timings.

Qualifications

University/College based technical qualifications in Mechanical Engineering and/or related subject or experience proven ability