



## Job Specification

<b>Job Title:</b>	Senior Design Engineer	IS-11-21
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### Main Purpose of the Role

To work within a product team to deliver engineering analysis, design and drawings for rapidly developing products and systems within the Isentropic Pumped Heat Storage System. To develop analysis of engineering solutions using Excel, VBA and ANSYS and SolidWorks CAD to produce detailed drawings for manufacture.

### Main Duties / Responsibilities

- To analyse designs from first principles for structural and thermal performance
- To propose and develop engineering design solutions
- To prepare drawings from SolidWorks models ready for manufacture.
- To support the design and development of test rigs.
- To coordinate the activities of drawing and drawing control.
- To specify components for the purpose of procurement.
- To liaise with specialist consultants e.g. Design 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 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

- 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 SolidWorks.
- Proven experience of developing products in a relevant environment.
- Ability to generate schemes and designs quickly.
- Presentation of technical information to the senior management team.
- Liaison with Product Development and Customer representatives.
- 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.

### Qualifications

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