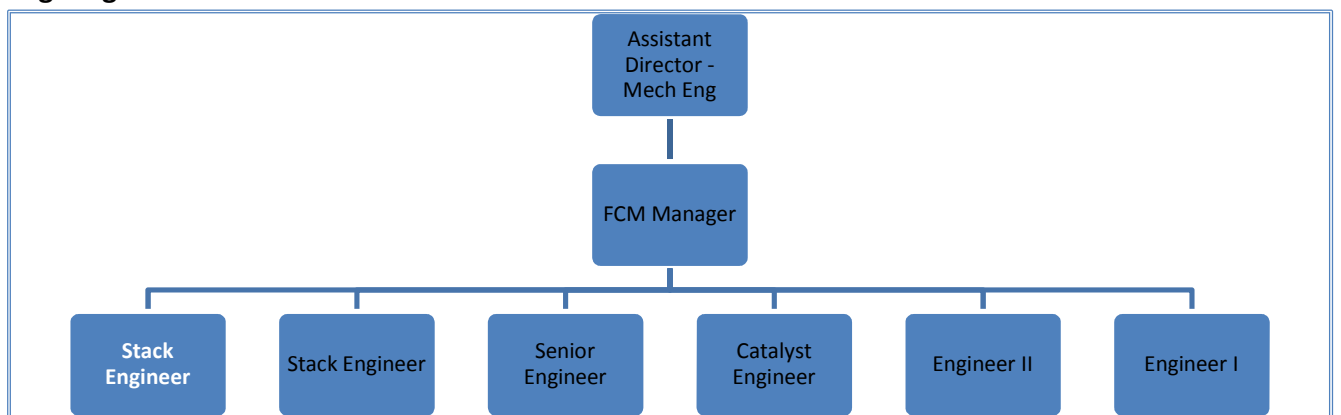


## Job Description

<b>Job Title:</b>	Stack Engineer
<b>Reports to:</b>	FCM Manager
<b>Direct reports:</b>	None
<b>Budgetary Responsibility:</b>	None

### Organogram:



### Purpose of the Job

Progress Fuel Cell Stack engineering design and development to provide a family of Fuel Cell Stacks capable of low cost volume manufacture.

### Key Accountabilities

- Product development of fuel cell stack across all programmes (including ownership of key sub-assemblies).
- Perform design and development activities to enhance stack manufacturability, performance and reliability.
- Support Finite Element Analysis of Fuel Cell Stacks.
- Develop design validation test plans.
- Perform design and production verification activities, Design Reviews, FMEA etc.
- Support project planning and report results in line with overall programme timeline.
- Provide feedback to project leader on design/development activities and analysis results.

### Key Results Areas – to do

- Produce innovative Fuel Cell Stack designs for mass manufacture.
- Verify new designs with analysis activities FEA/CFD.
- Prove designs with Design Validation testing.
- Ensure designs enable low cost manufacturing methods to be utilised.

- Verify manufacturing process maps with Manufacturing Engineering.
- Product development to ensure performance and reliability objectives are met.
- Complete all tasks in a timely manner to ensure program delivery on or ahead of schedule.

### **Internal & External Relationships**

- Daily contact with Fuel Cell Module Manager to ensure programme commitments are achieved.
- Close working relationship with other members of Fuel Cell Module team to coordinate activities.
- Systems Engineering; Ensure CHP functional specifications are met with stack design (and interfaces) and overall system architecture.
- Close relationship with both short stack test and FCM test teams to ensure proper design verification at stack level.
- Interface with Manufacturing Operations for seamless technology transfer and ongoing support during scale-up.
- Develop supplier relationships with procurement function.

### **Knowledge, Skills and Experience**

#### **Required:**

- Degree qualification from a leading university in mechanical engineering (or similar).
- A track record of delivering innovative mechanical designs and engineering within a world class product development environment for mass production.
- Detailed knowledge of mass manufacturing methods and influence on design.
- Strong technical, problem solving and communication skills using recognised problem solving methodologies (e.g. Six Sigma).
- Direct experience with design tools and release processes.
- Experience using CAD systems.
- Minimum of 3 years experience.

#### **Desirable:**

- Masters degree in mechanical engineering (or similar).
- Chartered Engineer.
- 5 years experience or more.
- Statistical experimental design experience.
- Experience with Finite Element Analysis to optimise mechanical systems.
- Experience with Pro-E CAD system.

### **Remuneration**

The ideal candidate will receive a competitive salary, together with a benefits package including excellent contributory pension, cycle to work scheme, childcare voucher scheme and life insurance.

### **To apply**

Please send a full CV detailing relevant experience together with details of current remuneration package to: [recruitment@cerespower.com](mailto:recruitment@cerespower.com) or Ceres Power Ltd, Unit 18 Denvale Trade Park, Haslett Avenue East, Crawley, West Sussex, RH10 1SS [www.cerespower.com](http://www.cerespower.com).