



## Head, Cryogenic Fuel Systems

**Salary:** Up to £70k p.a.

**Location:** Croydon

**Duration:** Permanent

**Start:** ASAP - 3 months

### The Company

Dearman is a global technology company delivering clean 'cold and power'.

Dearman's cutting-edge technology uniquely harnesses liquid air or nitrogen to deliver zero emissions power and cooling. The company is developing a portfolio of proprietary technologies, products and services, which deliver significant reductions in operating cost, fuel usage and emissions, at low capital cost. The first application of Dearman technology, to provide sustainable and efficient transport refrigeration, is currently undergoing trials.

The company is building an international reputation for innovation, rigour, commercial acumen and engineering excellence, all to fulfil its primary objective - to make the world a cleaner, cooler place.

### Job Summary

On-vehicle cryogenic fuel systems include a highly insulated tank, a high pressure fuel pump, and associated safety and fuel delivery systems. As we move towards production, we have a need to expand the group that is delivering these systems at prototype and industrialised level. Reporting to the CTO and Chief Engineer, you will have wide-ranging responsibility for cryogenic fuel systems on the vehicle, including managing technical aspects of our relationships with industrial gas partners, and specification, engineering and industrialisation of on-vehicle cryogen delivery systems together with partners and suppliers. You will line-manage a small team of engineers and test technicians which you will help to develop; you will also be responsible for key supplier and partner relationships (including grant-funded collaborative R&D), and for interfacing with the wider Dearman team.

### Responsibilities:

- Development of on-board cryogenic systems (tanks, pumps, interconnection and safety systems) to specified targets for performance, cost and durability; and developing safe operating and maintenance procedures
- Working with industrial gas suppliers to develop refuelling equipment for mobile applications, including operating and maintenance procedures
- Delivery to timing, quality and safety standards
- Innovation and development of innovative technologies, including partnership in collaborative research
- Supply chain and supplier partnerships
- Resource planning and forecasting for your team



- Supporting the Chief Technology Officer, Chief Engineer and Program Office in the development of high level business plans, budgets, processes and new initiatives

### **Person Specification**

We are seeking candidates with 5-10 years of suitable engineering background in industrial cryo-systems or other relevant sector such as hydraulic systems, automotive, aerospace or process industry thermofluids, and a track record of delivery from applied research through to production

Evidence of the following skills or knowledge would be beneficial:

- Degree level qualification in engineering (electrical, mechanical, automotive or aerospace)
- Significant experience, including positions of responsibility, in cryogenic equipment including stationary and mobile storage tanks, gas transfer equipment, pressure pumps, heat exchangers, valves, safe system design practice, Pressure Equipment Directive and safety systems
- While not essential, experience of the following may be of benefit:
  - Internal combustion, Rankine-cycle or other forms of heat engine
  - Hydraulic or electric power systems
  - Refrigeration or air conditioning
  - Prince2 or similar project management systems, ISO9001
  - Pre-revenue, start-up or innovation environments

### **Other information**

The job will be located primarily in Croydon, with regular travel to meetings with partners, customers and suppliers in the UK and overseas.

**Application deadline: 7<sup>th</sup> April 2017**

Please note, we will take all relevant experience into account when considering your application. To apply for this position, please submit a CV and cover letter addressing how you meet the criteria set out in the person specification to [careers@dearman.co.uk](mailto:careers@dearman.co.uk). We may appoint before the deadline.