



DELPHI

Innovation for the Real World

Delphi Automotive is a high-technology company that integrates safer, greener and more connected solutions for the automotive sector.

Owned by Delphi, Hartridge is a world leader in diesel fuel injection test equipment.



To support our Hartridge team located in Buckingham, United Kingdom we are currently looking for:

PRINCIPLE MECHANICAL DESIGN ENGINEER

The Principle Mechanical Design Engineer will be responsible for designing and developing test solutions, ranging from simple mechanical fixturing to full scale industrial machines. The job will involve managing a team of mechanical design engineers, both permanent and contract, to ensure business targets can be achieved.

Main Duties and Responsibilities:

- Developing concept designs using CAD software.
- Designing and executing experiments to prove new concepts on machine.
- Perform FMEA and SRA ensuring applicable product/machine directives are being considered.
- Perform FEA analysis on critical parts/sub-assemblies using CAD and DOE techniques.
- Ability to manage a team of mechanical engineers and allocate work accordingly.
- Ability to liaise with other principle engineering functions to ensure mechanical design caters for overall product requirement, electrical,PCB, applications.

Essential requirements:

- Advanced use of Solidworks 3D and AutoCAD software packages for product design, assembly, FEA and other specialist functions.
- Advanced in reading technical drawings, understanding part tolerance requirements based on manufacturing techniques.
- Experience in design for manufacture and serviceability.

- Experience with hydraulics, pneumatics, mechanical assemblies and electrical layouts.
- Knowledge of advanced prototyping techniques to reduce lead-time to test new concepts, i.e. 3D printing.
- Experience in design of products which are subjected to high pressure, high pressure and high temperature, i.e. pressure vessels.
- Experienced in manufacturing techniques to ensure best quality with lowest possible cost.
- Management skillset.
- Experience in FMEA and SRA analysis and compliance.
- Ability to design and/or modify technical solutions to meet target business cost.
- Ability to use Microsoft Word and Excel packages.

Non-Essential but Desirable Requirements:

- Design for manufacture, service and test.
- Vehicle control systems.
- Previous experience in NVH design and/or considerations.
- Ability to use Microsoft project
- Knowledge of Electronic Unit Injector/Pump fuel systems and/or principles of operation.
- Knowledge of Common Rail Injector/Pump fuel systems and/or principles of operation.
- Knowledge of Gasoline Direct Injection/Pump fuel systems and/or principles of operation.

The successful candidate will:

- Be a team player, comfortable working in a small team and building strong professional relationships.
- Have the ability to organise and take responsibility for own work.
- Have the ability to communicate effectively at all levels, both internally and with customers.
- Be flexible and keen to assist in a variety of ways on a variety of projects.
- Degree qualified
- A sound understanding of Diesel Fuel Injection systems and internal combustion engines an advantage.
- Be confident and have a “Can Do” attitude.
- Must be willing to “Think outside the Box” and willing to take calculated risks.
- A multi-tasker and a finisher!
- Ability to delegate workload and also manage own workload

We offer:

- A competitive Salary
- 25 days annual leave plus statutory holidays
- Defined contribution pension scheme
- Life Assurance for members of pension scheme
- Cash back Healthcare plan
- Discretionary bonus based on site performance

Please send your CV in English, including personal data protection clause to: jobs@delphi.com

To learn more about Delphi visit delphi.com
To learn more about Hartridge visit Hartridge.co.uk

