



Advanced Industrial Engineering Ltd

Precision, Quality, Integrity.

Unit 3 Measham Lodge Business Park,
Gallows Lane,
Measham,
Leicestershire.
DE12 7HA,
Tel: 0808 901 2005

11 March 2020

Vacancy No: 0013

Vacancy Title: Mechanical Design Engineer

Introduction

Advanced Industrial Engineering Ltd have an exciting career opportunity for a professional Mechanical Design Engineer. The role offers high variation in work, the chance to apply technical skills to real life engineering systems and to design products and machines for some of the world's leading automotive manufacturers. Working within a committed and experienced engineering team in a smart, comfortable and professional environment the suitable person will be given the opportunity to excel in engineering design and develop professionally.

This role will be best suited to a qualified Mechanical Engineer. However, previous experience and other relevant qualifications will be considered. This position is offered on a permanent employment basis.

1.0 Roles and Responsibilities

The successful applicant will be responsible for the full design lifecycle of the products that AIE produce, this includes defining a concept and developing it in to a fully functioning 3D model, designing for manufacture and assembly, defining testing requirements and designing for an efficient installation and project hand over for mass manufacture.

The role of mechanical design engineer comprises of the following:

- Initial project review and scope of requirements determination within the project team.
- Participate in on-site surveys to determine design requirements and constraints with the project team and customer.
- Creating fully functioning 3D CAD models of mechanical systems, special purpose machinery, assembly fixtures, production jigs, mechanical handling systems and industrial automated systems using Autodesk Inventor Professional.
- Creating, checking and approving 2D manufacturing, assembly, testing and installation drawings to BS8888-2017.
- Running and participating in design reviews in accordance with internal and customers design standards and relevant legislation.
- Liaising between design and manufacturing to understand any manufacturing constraints or requirements that need to be accounted for.



2.0 Experience and requirements

The role of mechanical design engineer is be suited to a profession mechanical engineer with proven experience in mechanical designing and manufacture looking for a diverse and engaging career.

The following are **requirements** for the role:

- Minimum of 5 years' experience working within mechanical engineering.
- Minimum of 5 years' experience of mechanical engineering designing using a 3D modeling package.
- Knowledge of manufacturing processes and their requirements from a design perspective.
- Knowledge of material and parts specifications and the ability to suitably select these for the design requirements.

3.0 Advantages

The following are advantageous but not essential to apply for this position:

- Experience of modeling and drawing creation using Autodesk Inventor.
- Hands on manufacturing / assembling experience.
- Knowledge / experience of pneumatic circuit design and functionality.
- An appreciation and understanding of the fundamentals of motor vehicle mechanics.
- Knowledge of machinery directive and other legislative requirements.

4.0 Remuneration and information

- Rate is dependent upon experience and capabilities.
- 40 hours / week with potential for over time and some weekend working - notice will be given if required. Core business hours 0800 – 1730.
- Full clean driving licence and use of own car is ideal.
- The role will be based at AIE Technical Centre, Unit 3, Measham Lodge Business Park, Gallows Lane, Measham, Leicestershire. DE12 7HA.

5.0 Company background

Advanced Industrial Engineering Ltd was formed in 2015 and has seen steady growth since then with an increasing customer base predominantly within the automotive industry. AIE are designers and manufacturers of mechanical and automated special purpose machinery and mechanical systems. Typical systems encompass automated / semi-automated / manual tooling and securing systems, mechanical handling, part manipulation, assembly tooling, jigs and fixtures, material handling and conveying. AIE provide complete turnkey mechanical and automation engineering projects with all work undertaken in house from design, manufacture, assembly, testing and installation.

6.0 Application process

Please send your CV and covering letter to philip@advanced-ie.co.uk by 31st March 2020.