

Position – Apprentice Mechanical Design Engineer

Application Deadline – 30th November 2021

Anticipated Start Date – 4th January 2022

Company – M5tec

Location – Newton Aycliffe, County Durham

Hours – 37 hours per week, Monday to Thursday 8:00 – 16:30, Friday 8:00 – 13:00

Wage – Apprenticeship wage (currently £4.30 per hour) for the first 12 months followed by annual increases which will be dependent on the level of entry of the apprentice.

Company Overview – M5tec are an SME (Small Enterprise as defined by the European Commission) multidiscipline engineered solutions provider based in Newton Aycliffe, County Durham. Our team consists of experienced, multidisciplined and enthusiastic engineers who are committed to successfully delivering engineering excellence on every project.

M5tec work within the Nuclear (New build & Decommissioning), Subsea, Renewables and Fusion Energy industries and we are dedicated to supplying high-assurance industries with new and innovative solutions to engineering problems whilst maintaining a good working relationship across the supply chain.

We provide the following services:

- Mechanical Engineering, Design & Draughting
- Hydraulic Engineering, Design & Draughting
- Electrical Engineering, Design & Draughting
- Structural Engineering, Design & Draughting
- Onsite Support
- Turn-Key Solutions

All services are carried out in accordance with our Integrated Management System which has been certified to international standards ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

Our core values are Quality, Reliability & Flexibility:

- **Quality** – we strive to provide a first-class service that meets our clients' expectations whilst adhering to our own in-house quality procedures and innovative approach.
- **Reliability** – our aim is to reliably deliver our services on time, every time whilst maintaining a safe system of work with zero incidents.
- **Flexibility** – our services are completely flexible and scalable to help our clients' needs. We can work on-site, off-site, offshore and worldwide.

Training Provider – Teesside University

Course – Product Design and Development Engineer, Degree Apprenticeship. Successful completion of this programme includes the award of a BEng (Hons) in Mechanical Engineering.

Academic Qualifications – Applicants must have at least 112 UCAS points from at least 2 A-Levels, including A-Level mathematics, or equivalent. We also welcome applications from individuals with a HNC /HND in engineering, or who are part way through a HNC, HND or BEng (Hons) Mechanical Engineering degree. All applicants must have achieved GCSE Maths and English Language at grade 4/C, or higher.

Reporting to – Head of Engineering

Purpose / Role - It is a varied role with varying degrees of responsibility, differing types of tasks ranging from initial design concepts to FAT (Factory Acceptance Testing) and commissioning, perhaps customer visits but with practical design remaining central to the role.

Key Aims and Objectives

- To produce practical new designs for highly regulated industries to tight timescales in a supportive team environment
- Participation in the development of new and existing designs, components, machinery and assemblies with the aim of reducing complexity and cost, improving maintainability and increasing performance.

Responsibilities and Duties

- Produce conceptual designs from process definitions
- Layout design of Mechanical/hydraulic assemblies
- Stress and other calculations to support designs
- To work in multi-discipline project teams on specific aspects of a project
- Whilst being a specialist in one of the following you will also have a good working knowledge of at least one of the other engineering disciplines: Mechanical, Structural, Hydraulic, Materials
- To be involved in the build, commissioning, test and trials of new build projects
- Working with electrical, control and software engineers to ensure correct interfacing between different aspects of a project

Core Competences & Qualities

- An enthusiasm for engineering
- Logical thinking and reasoning
- Good communication skills
- Good attention to detail
- Creative and innovative thinking
- Team player

Job Description - Apprentice Mechanical Design Engineer

- Good analytical skills
- Good problem-solving skills
- Willingness to learn and develop as an engineer
- Good computer and technical skills (MS office – Word, excel, outlook etc.)

Allied Occasional Duties

- Assistance with customer proposals and other sales activities
- Research and development activities
- Involved in working away/abroad/offshore

Key Internal Interfaces

- Technical Responsible Persons, Project Responsible Persons and Fellow Engineers (all disciplines)

How to apply – Please send your CV and cover letter to enquiries@m5tec.com

