Information

Hours of Work: 8.00am to 5.15pm Monday to Thursday with a half hour unpaid break for lunch each day and 8.00am to 1.00pm on Friday.

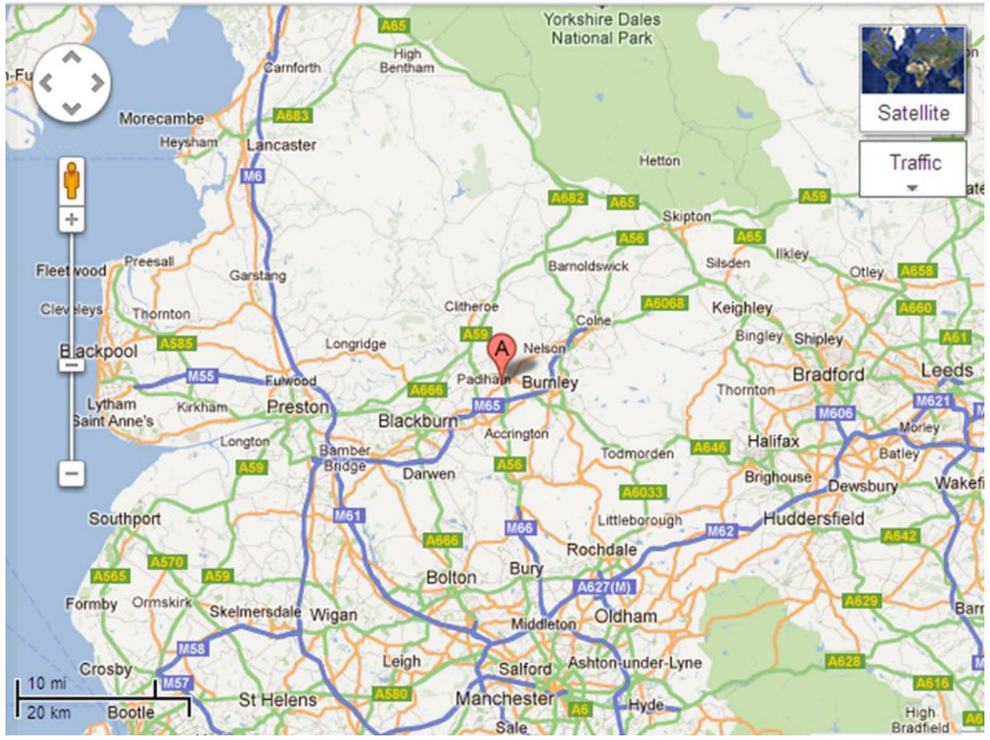
Salary: £16,500 per annum paid monthly in arrears.

Application: Applications to be in the form of a CV with a covering letter. Applications to be e-mailed to the H.R. team at recruitment@fortvale.com

Placement: The undergraduate program is a 12 month graduate placement.

Precise Terms and Conditions of Employment can be discussed at interview.

Simonstone is located within easy reach of Manchester, Lake District, Leeds, Yorkshire Dales and Preston and is in close proximity to major motorway and rail networks.



Fort Vale Group Companies

FORT VALE

Riggs AUTOPACK

FORT VALE Nuclear Ltd

Francis SEARCHLIGHTS

Fort Vale Engineering Ltd, Simonstone Lane, Simonstone, Lancashire, BB12 7ND

Fort Vale offices England - Netherlands - USA - Russia - Singapore – China - Australia

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FORT VALE®

Job Description
for
Undergraduate Design Engineer
(Placement)

Undergraduate Program 2018/19

"Continuous improvement in all aspects of Fort Vale's operations is essential if we want to stay ahead of our competitors and ensure future success. We must build on our strengths, work on our weaknesses, and keep discovering new and better ways of doing things."

Undergraduate Design Engineer (Placement)

Overview:-

Fort Vale is an international company founded by our Chairman, Mr E.S.Fort, in 1967. The Company has grown from a small workshop in Colne, supplying products to the fuel delivery sector, to its current position as the market leader in the design and manufacture of products for the bulk liquid transport industry. Whilst undertaking their industrial placement the Undergraduate Design Engineer (UDE) will be based in Simonstone, Burnley, which houses Fort Vale's world class manufacturing facilities.

The culture at Fort Vale is one of continuous improvement in all aspects of Fort Vale's operations. This is essential if we want to stay ahead of our competitors and ensure future success. Our mantra is "We must build on our strengths, work on our weaknesses, and keep discovering new and better ways of doing things".

At Fort Vale, we pride ourselves on the design, development, manufacture and sale of innovative and new products for use within the transportation industry. From initial concept through the development stage and testing to final approval, design engineers apply technical knowledge in combination with the modelling and analysis tools available to produce the design documentation necessary for product development and manufacture. Design Engineering's ultimate aim is to identify areas of improvement that enhance customer benefits and/or reduce overall manufacturing costs.

Fort Vale has identified a role for a UDE. The successful candidate will be involved with the application of analysis software, along with updates to standards continually made by our industry's regulatory bodies, national governments and the UN. This provides sufficient opportunities to increase labour capacity within the design team and to introduce the role of UDE, reporting directly to the Design Manager. The UDE will be fully responsible for their actions at work but within the supportive framework of the design team.

The UDE will play an important role in the organisation. They will contribute to product design and influence the related processing and processes. It is envisaged that their contribution and recommendations will have an impact on product development. Being a vital part of the design team and integrating into work practices the UDE will apply their theoretical knowledge and ability to developing the integration of our new "flow analysis software". A good appreciation of employment in a vibrant modern company will be gained.

The Role:-

The role requires an ability to apply mechanical engineering theory and use software packages: Creo, Mechanica, Magma, PVElite, Finglow and FlowEFD. Importantly, the role demands both knowledge and application of mathematical theories based around mechanics and flow. It is vital that the UDE understands the importance of generating and recording accurate design and test data. Appreciation will also be gained in designing for manufacture, its requirements and potential trade-offs (e.g. break even points for product manufacture, manufacturing methods and processes). The role encourages the individual to develop and appreciate their responsibility as an employee within a company which produces safety critical products.

Additionally, the role requires excellent abilities to acquire, analyse and present data as well as applying quality and safe-work practices. It will demand some responsibilities relating to standard operating procedures and always warrant excellent verbal, written and presentation communications.

By taking responsibility for the application of theoretical analysis the role will offer job satisfaction through the realisation of product improvements. Contributions made will develop the individual's skills and as such this will contribute to their personal development.

Ultimately, experiencing employment and contributing to product design improvements are the overall aims of this role.

Typical UDE objectives will include:-

- To produce design work that conforms to the required design codes, (typically BS5500, ASME & P.E.D) to meet agreed customer specifications and deadlines.
- To experience, learn and reflect on work experience, recording an applying the 'golden nuggets' of job employment.
- To develop techniques to log appropriate test data
- To analyse and verify test data against computational fluid dynamics software package.

A UDE will:-

- Always discuss, agree and validate any design proposal(s) with the Design Manager prior to any implementation or change.
- Demonstrate a positive (and willing) work ethic, applying themselves with a "can do" approach to all design matters.
- Ensure that their development and learning experiences are recorded whilst in employment, using company time only when approved by the Design Manager.

The Person

The person will be a mechanical engineering university student seeking work experience. He/she will be able to demonstrate a genuine interest in the products designed and manufactured at Fort Vale. He/she will have excellent communication skills (both written and verbal) and be confident when making presentations.

Honesty, commitment and integrity are some of the traits that drive this individual, as are meeting and exceeding minimum standards of work. Taking pride in their work and full responsibility for any actions taken, this person will always strive to do 'the right things'. This person is expected to integrate quickly into an established design team consisting of up to a dozen people. In addition, he/she will be required to work and cooperate with various other departments across the business e.g. Production, Quality, Purchasing, HR, etc., as well as spending some time on the shop floor.