



Student Internship – Engineering

About CFMS

The Centre for Modelling and Simulation (CFMS) is a growing, independent digital engineering consultancy providing technical expertise to help organisations create cutting edge solutions by pioneering new approaches to product development and enabling innovation services.

Working with commercial and research organisations of all sizes, CFMS has a full portfolio of digital innovation capabilities, including design and analysis services, consultancy, and IT infrastructure, CFMS uses digital innovation across the cyber-physical landscape (including a new robotics capability) to help develop more effective engineering solutions across industrial sectors critical to the UK economy.

As a commercially focused organisation we reinvest profits from commercial activity into the continued development of our people, facilities, and research capability.

We have an exciting range of technologies and development programmes across a range of sectors (aerospace, automotive, construction, energy and transport), all requiring advanced simulation, model based engineering, data science, and robotics expertise and underpinned by our in-house IT infrastructure .

About the role

We work with companies who are experienced in the use of mathematical modelling and also those wanting to make greater use of simulation to tackle interesting and challenging modelling problems. We also work closely with academics and technology partners to create and evaluate new modelling algorithms and techniques and how they scale and apply to High Performance Computing (HPC).

As an engineering intern, depending on your background and interest, you will work closely with our team of experts across systems engineering, mathematical modelling and simulation, data analytics, advanced IT systems and HPC, to develop and prove new digital capabilities.



Role and Responsibilities

Roles and responsibilities are dependent upon the candidate, and will include elements of:

- Collaboration with other CFMS technical team members on development, testing and benchmarking activities
- Modelling physical phenomena using open source and vendor tools
- Development of new algorithms, methods and tools to meet engineering and simulation challenges
- Working with end users to understand and meet requirements
- Presentation of results to a range of audiences including internal and external stakeholders
- In depth technical report writing, explaining and justifying methods and solutions

Skills Required

- Ability to think logically and apply knowledge to solve problems
- Strong background in a mathematical STEM subject with some experience of programming
- Ability and interest to engage with new technology and concepts
- Ability to collaborate well within a technical team
- Ability to summarise complex technical concepts to support marketing and business development activities
- Ability to liaise with customers and technology partners/suppliers
- Ability to explain technical concepts to both technical and general audiences

How to Apply

Please send your up-to-date CV and a covering letter to: Recruitment Manager, email: careers@cfms.org.uk, with the subject line of your email: "Internship - Engineering"

Late applications will not be accepted.

This is a 12 month Internship: 2nd September 2024 until 29th August 2025.