About CFMS

The Centre for Modelling & Simulation (CFMS) is a trusted, neutral not-for-profit specialist in digital engineering capability. Our vision is to be the recognised, independent, digital test bed for the design of high-value engineering products and processes.

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. We 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).

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 and data science expertise. This role will be focused on developing and deploying simulation software within the Model Based Engineering Team onto a range of hardware within CFMS. The role will primarily involve using software engineering techniques to implement algorithms and models into robust software, integrate it with other existing tools and deploy it across a range of computing resources.

Roles and Responsibilities

- Roles and responsibilities are dependent upon the candidate, and will include elements of:
  o Collaboration with other CFMS technical team members on development, testing and benchmarking activities of software written to solve engineering challenges
  o Modelling physical phenomena using open source and vendor tools, including discrete event simulation
  o Development of new algorithms, methods and tools to meet engineering challenges
  o Working with end-users to understand and meet requirements

Skills Required

- Ability to think logically and apply knowledge to solve problems
- Strong background in a mathematical STEM subject with some experience of programming
- Awareness of and interest in software engineering concepts
- Ability and interest to engage with new technology and concepts
- Ability to work well with others
- 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 a CV and covering letter to careers@cfms.org.uk.