



Job Description:

Job vacancy:	Senior Research Engineer
Reporting to:	Head of Engineering
Location:	Bristol & Bath Science Park
Annual Salary:	Subject to applicant experience
Package:	27 days annual leave 4 x salary life assurance Group Personal Pension Scheme Group Private Medical Insurance Health Care Cash Plan



Overview:

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.

About the role:

This role is suited to an individual with at least 5 years' experience of working with customers to solve engineering challenges in an industrial environment. The Senior Research Engineer will be focused on working with customers to identify, capture and refine requirements, convert this into a simulation architecture and lead the development of novel simulations to solve engineering challenges across a range of domains. They will be expected to take ownership of projects and plan and deliver them in coordination with the team's project manager. The Senior Research Engineer will be expected to identify areas for improvement and take ownership of developing tools to be applied across a range of projects, identifying other areas where they can be applied. They will be expected to use their own initiative, judgement and critical thinking to evaluate candidate approaches and tools to achieve project goals. The role will require management of junior colleagues to deliver projects and mentor their development.

Key Responsibilities:

- Deliver commercial and research projects on time to a high quality within budget.
- Undertake technical research and development of simulation techniques and methodologies.
- Work with existing and potential customers to distil problems into deliverable projects.
- Undertake requirements capture workshops, developing the problem statements into quantified requirements specifications.



- Work with the Head of Engineering and other colleagues to develop novel solutions to customers problems.
- Contribute to and deliver project reports and presentations.
- Provide technical input into project bids.
- Manage junior members of staff to deliver projects.

Experience, Skills & Qualifications:

- A strong technical background in Maths, Physics, Engineering or Applied Computing domains.
- 5+ years' experience in the relevant role of solving engineering challenges in an industrial environment.
- Experience of planning, managing and delivering projects.
- Experience of customer facing activities including leading technical meetings and requirements gathering.
- Experience of requirements capture and definition.
- Experience of presenting and writing reports on technical subjects for a range of audiences.
- Experience of creating mathematical models and their computational implementations.
- Experience of programming in Python and/or C++ and working in Linux environments.
- Experience of using software development practices such as version control, unit testing and CI/CD.
- Knowledge of model optimisation techniques, sensitivity analysis and design of experiments are desirable.
- Experience of working with High Performance Compute (HPC) systems is desirable.
- Excellent written and verbal communication and organisational skills.

How to Apply:

Email your CV and covering letter to careers@cfms.org.uk. If you would like further information on the role, please contact us on the email above or call **0117 906 1100**.

Applicants must have an indefinite right to work in the UK.

Direct applications only - no agencies.