



<https://newtoncolmore.com/job/simulation-modelling-engineer-cambridge-cutting-edge-technology-projects/>

Simulation & Modelling Engineer – Cutting Edge Technology Projects

Description

I'm supporting a growing engineering team in Cambridge who are looking to bring in an experienced Simulation & Modelling Engineer to work on a range of technically challenging, concept-driven projects. This is a role for someone who enjoys diving into complex systems, understanding how they behave, and turning that insight into robust models that guide real-world engineering decisions.

You'll be working closely with multidisciplinary teams made up of physicists, engineers, mathematicians and designers, contributing to early-stage ideas, shaping system behaviour, and helping to turn concepts into functioning prototypes. The work is fast-paced, varied, and ideal for someone who thrives on solving difficult problems with a mix of analytical thinking and hands-on engineering.

The position centres around building and refining mathematical models using MATLAB and Simulink, analysing system interactions, and supporting the development of new technologies. You'll draw on your background in physics, electronics, mathematics or a related discipline, and you'll bring industry experience that allows you to approach challenges with both rigour and creativity. Experience within defence is helpful but absolutely not essential — strong fundamentals and curiosity matter more.

You'll be involved in model-based systems engineering, developing physics-driven models, shaping system architectures, and contributing to test environments and code reviews. Any exposure to hardware-in-the-loop, DSP, radar signal processing or embedded code generation would be a welcome bonus, but the team is open-minded and supportive of people who want to broaden their skillset.

The organisation is continuing to scale, offering a genuinely collaborative environment with modern labs, a flat structure, and the freedom to contribute ideas from day one. You'll be surrounded by people who enjoy pushing boundaries, sharing knowledge, and working on technology that has real-world impact. Strong benefits, professional development opportunities, and a culture built around trust and autonomy are all part of the package.

Due to the nature of the work, you will need to be eligible for UK security clearance.

If this sounds like the kind of challenge you've been looking for, apply now or risk missing out.

To discuss the position in more detail, you can contact Andrew Welsh, Director of Medical Devices, Biotech and DeepTech Recruitment at Newton Colmore, on +44 121 268 2240. You can also submit your CV and a member of the team will be in touch to talk through next steps.

Hiring organization

Newton Colmore Consulting Ltd

Employment Type

Full-time

Duration of employment

Permanent

Industry

Defence

Job Location

Cambridge, Cambridgeshire

Date posted

6th May 2026

Valid through

31.08.2026

Apply below or email directly:

andrew.welsh@newtoncolmore.com