



<https://newtoncolmore.com/job/signal-processing-engineer-radar-systems/>

Signal Processing Engineer – Radar Systems

Description

Solve the problems others can't. Work at the edge of what's possible.

Newton Colmore is partnered with a research-led engineering organisation working on some of the most complex and mission-critical challenges in defence. This is an opportunity to join a deeply technical, multidisciplinary team tackling cutting-edge problems in radar and advanced sensing systems.

If you're motivated by first-principles thinking, enjoy modelling complex real-world systems, and want to see your work deployed in high-impact environments, this role offers a rare platform.

You will work on highly complex, often ambiguous technical challenges, developing novel approaches to radar signal processing and advanced sensing problems. This is a role all about innovation, experimentation, and proof-of-concept development at the frontier of technology.

The main responsibilities of the role include;

- Develop advanced models and simulations of radar and sensing systems
- Design and validate signal processing algorithms under realistic constraints
- Explore system-level interactions across RF, sensing, and processing domains
- Build and test proof-of-concept solutions using tools such as MATLAB, Simulink, and Python
- Contribute to hardware-integrated and real-time systems, including test benches and HIL setups
- You'll be trusted with difficult problems and given the autonomy to solve them, supported by a team of exceptional engineers and scientists.

The company are interested in individuals with deep technical curiosity and strong fundamentals, who can operate across disciplines and tackling unfamiliar challenges.

Ideally, they are looking for people with some of the following attributes;

- Radar or sensor modelling, simulation, or system design
- Signal processing algorithm development and validation
- Complex system modelling and multi-domain interactions
- Simulation environments or test bench development
- Hardware-in-the-loop or real-time systems

The company offer tailored packages to secure the right people, with a full suite of benefits, including market-leading bonuses and pension contributions and much more. They have meticulously created a working environment that promotes autonomy, calculated risk taking, and ingenuity, which favours bold ideas and innovation.

Hiring organization

Newton Colmore Consulting Ltd

Employment Type

Full-time

Beginning of employment

ASAP

Duration of employment

Permanent

Industry

Defence

Job Location

Cambridge, UK

Working Hours

Monday to Friday

Base Salary

£ 50000 - £ 80000+ - DOE

Date posted

20th July 2026

Valid through

17.08.2026

Apply below or email directly:
matthew.lowdon@newtoncolmore.com

If you are interested to learn more about this role then make a confidential application now and a member of our team will be in touch with more detail.