

Candidate Information

Position: Principal Engineer
School/Department: Momentum 1.0
Reference: 26/113465
Closing Date: Monday 27 July 2026
Salary: £62,840 - £79,351 per annum.
Anticipated Interview Date: Thursday 6 August 2026

JOB PURPOSE:

Momentum One Zero (M1.0) is Northern Ireland's new regional innovation centre for advanced digital technologies, creating commercial value for companies at the convergence of cyber security, AI, and wireless technologies, into life and health sciences and other regionally important sectors.

The Principal Engineer will lead collaborative development projects with industrial partners exploiting research and innovation from Momentum One Zero, with particular emphasis on modern ML/AI engineering techniques. Application areas currently include digital health, agri-food and related areas.

MAJOR DUTIES:

1. Lead significant R&D&I projects, ensuring that design requirements, estimates, project deliverables and issues are prioritised and delivered, to agreed timescales and costs.
2. Design and develop software components incorporating advanced AI-driven methods with a strong emphasis on AI assurance.
3. Design and develop proof-of-concept demonstrators that incorporate newly developed capabilities emerging from Momentum One Zero.
4. Assist with the raising of substantial funding from industry and major government sources, nationally and internationally, leading on user/customer and group collaboration throughout all stages of work.
5. Produce high-quality technical reports and deliverables to enable commercialisation or fund further development.
6. Evaluate emerging technologies and advance engineering best practices.
7. Help develop the international reputation of Momentum One Zero through presentations, attendance at tradeshow, engaging with major stakeholders and visiting other companies and research centres worldwide.
8. Mentor senior engineers and foster a culture of technical excellence across teams.
9. Any other duties that may reasonably be requested by management.

ESSENTIAL CRITERIA:

1. 2:1 Honours Degree, or equivalent, in Electrical/Electronic Engineering (EEE), Computer Science (CS) or related discipline OR 2.1 degree in a healthcare related domain AND postgraduate qualification in EEE or CS.
2. Strong track record of the design and delivery of high-quality outputs such as demonstrators, prototypes, technical reports, design specifications and project deliverables which have successfully passed formal quality review procedures within a relevant R&D environment.
3. Excellent software development skills in languages such as C/C++, Python, Java etc. and related toolsets, including the use of AI to support the software development lifecycle.
4. Practical experience of Artificial Intelligence and Machine Learning methodologies (eg Transformers, Convolutional Neural Networks) and tools such as Pytorch, Tensorflow, JAX, and of AI-assisted software development.
5. Exceptional ability to influence without authority and guide cross-functional technical initiatives across multi-disciplinary teams.
6. Strong analytical and strategic thinking skills, with the ability to navigate ambiguity, interpret changing requirements, and convert them into effective plans and solutions.

7. A consummate team player and technical leader who is open-minded and is prepared to work closely with other members of a large multidisciplinary research and development team. This includes engagement with both university-based researchers and industry-based engineers and managers.
8. Strong presentation skills and ability to prepare clear and concise presentation materials.
9. Ability to explain complex technical concepts to non-technical stakeholders clearly.

DESIRABLE CRITERIA:

1. MEng, MSc or Ph.D. in a relevant area.
2. Hands-on AWS/Azure/GCP/Cloud expertise.
3. Expertise in agentic AI.
4. Expertise in AI or software assurance methods.
5. Good grasp of distributed systems design: event-driven architecture, microservices, fault tolerance, and performance at scale.
6. Demonstrable experience in the digital health or health data sector.
7. Working knowledge of R, SQL or power BI.
8. Experience of working in high technology start-ups.
9. Experience in operating AI solutions at scale.
10. Team Leading experience; both managing work and reporting on costs.

ADDITIONAL INFORMATION:

This role will support delivery of the ONEHEALTH project. ONEHEALTH is supported by PEACEPLUS, a programme managed by the Special EU Programmes Body (SEUPB).