

## Candidate Information

**Position:** Engineer  
**School/Department:** Momentum 1.0  
**Reference:** 25/112906  
**Closing Date:** Monday 10 November 2025  
**Salary:** £35,313 - £44,888 per annum  
**Anticipated Interview Date:** Tuesday 2 December 2025

### JOB PURPOSE:

To undertake collaborative development projects with industrial partners exploiting research at Momentum One Zero (M1.0), a Queen's University led cross-disciplinary digital innovation hub.

### MAJOR DUTIES:

1. To contribute to the commercialisation and technology transfer of Momentum One Zero's research outputs by contributing to on-going research programmes in collaboration with research-intensive SME's, international corporations, and research institutes.
2. Undertaking significant software development projects and managing research projects and deliverables focused on the use of emerging technologies in AI, cybersecurity or digital twin modelling.
3. Design and development of software components incorporating cutting edge AI, modelling, and/or cyber security related technologies.
4. Design and development of proof-of-concept demonstrators that incorporate newly developed capabilities emerging from Momentum One Zero's research groups.
5. Produce high-quality technical reports and deliverables to enable commercialisation or assist in generating funding opportunities to support further programme activity.
6. Help develop the international reputation of Momentum One Zero through presentations, attendance at tradeshow and visiting major companies and research centres worldwide.
7. Carry out routine administrative tasks to ensure project goals are completed on time and within budget.
8. Undertake any other duties that may reasonably be requested by management.

### ESSENTIAL CRITERIA:

1. Honours Degree, or equivalent, in Computer Science, Electrical & Electronic Engineering, or Hubs of Impact related discipline (such as Health, Agri-tech, Space, Fintech - see M1.0 website for full list); OR HND in a related discipline with extensive recent and relevant industrial experience.
2. Evidence of:
  - a. Software development skills in languages such as C, C++ / Java / Python / R. Use of code configuration management toolsets.
  - b. Applied knowledge of Artificial Intelligence and Machine Learning methodologies and tools, or of cyber security principles
3. Knowledge of one or more of the following:
  - a. Artificial Intelligence and Machine Learning methodologies and tools.
  - b. General cyber security principles.
  - c. High-quality outputs such as demonstrators, prototypes, technical reports, major component design specifications and project deliverables which have successfully passed formal quality review procedures.
4. Proven ability to communicate complex information clearly in both written and spoken English to a range of stakeholders.
5. Evidence of strong presentation skills and ability to prepare clear and concise presentation materials.
6. Evidence of effective team working skills in a multidisciplinary, cross functional setting.
7. Willingness to visit collaborative partners and to attend meetings and conferences nationally and internationally as requested.

**DESIRABLE CRITERIA:**

1. MEng, MSc or Ph.D. in a relevant area.
2. Evidence of industrial product development experience involving software design and development.