

Candidate Information

Position: Project Engineer
School/Department: AMIC
Reference: 25/113022
Closing Date: Monday 15 December 2025
Salary: £35,136 - £40,316 per annum
Anticipated Interview Date: Thursday 8 January 2026
Duration: 3 years

JOB PURPOSE:

AMIC - A £100M investment through the Belfast Region City Deal - is a collaborative, innovative powerhouse of advanced manufacturing set to elevate our region globally.

We are supporting economic growth and prosperity for Northern Ireland by creating high quality jobs and increasing inward investment through high value manufacturing innovation clusters.

We are driving industrial transformation, paving the way for future technologies and competing globally with a more sustainable focus.

When you join our team, you will have access to the latest advanced industrial technologies and have the opportunity to grow and develop as an engineer and technology leader. Our mission is to provide you with the environment to innovate and create impact.

Our launch team of experienced staff has core capabilities in digitalising manufacturing, smart design, sustainable polymers & composites and nanotechnologies & photonics. We are excited to be expanding the team throughout 2025 and beyond.

We are seeking to recruit project engineers who want to develop and support innovation through applying their knowledge to the challenges of industry and society. Project engineers will support senior colleagues in the delivery of projects in one or more of the following key technology themes within AMIC's advanced manufacturing activities:

- Automation and robotics (robotic applications, industrial automation R&D).
- Digitalisation (manufacturing technology digitalisation).
- Digital Manufacturing (manufacturing process simulation).
- Metrology (advanced measurement and validation).
- Machining (high accuracy advanced material removal).

Successful candidates will apply their knowledge and experience of methods and processes to support AMIC's advanced manufacturing activities, developing and implementing methods and processes to meet industry need, fuelling a pipeline of innovation activity for AMIC's state-of-the-art "Factory of the Future" facility, and contributing to solving wider societal challenges. In conjunction with senior engineering colleagues, you will work collaboratively with academia, technology providers, national technology centres, and industry to deliver key projects focused on Advanced Manufacturing activities. You will help monitor, develop and implement best practices in the application of your engineering discipline within advanced manufacturing, including software, hardware and delivery.

MAJOR DUTIES:

1. Contribute to high quality industrial research, development, and knowledge transfer in your engineering discipline.
2. As part of the AMIC team contribute to the development and implementation of a range of technologies to meet industrial challenges.
3. Through senior colleagues engage with industrial partners to facilitate the transfer of AMIC capabilities into commercial R&D teams.

4. Contribute to the planning, development, delivery, maintenance, and monitoring of AMIC projects.
5. Participate constructively in multi-disciplinary research activities, including staff training and development.
6. Assist in fostering successful industry- academic engagement that will deliver at scale innovation projects.
7. Support advancing the international reputation of AMIC and QUB through presentations, attendance at tradeshow and visiting major companies and research & technology centres worldwide.
8. Produce high quality technical reports and demonstrations to assist in generating funding opportunities to support further programme activity.
9. Carry out routine administrative tasks to ensure project goals are completed on time and within budget.
10. Undertake any other duties that may reasonably be requested by management.

ESSENTIAL CRITERIA:

1. Honours degree or equivalent in a relevant engineering discipline, science, or a related discipline with significant relevant industrial experience OR minimum HND in a related engineering discipline with recent and relevant industrial experience.
2. Recent experience in at least one of the following :
 - AUTOMATION: Industrial Robotics, Collaborative Robotics, Robot Offline Programming, Industrial Automation Applications, Self-Guided Vehicles, Engineering Design, 3D CAD Modelling, PLC Programming, SCADA systems, Automation Simulation, Virtual Commissioning, Machine Vision.
 - DIGITALISATION: IT/OT Integration, SCADA systems, Industrial Communications, DevOps, ERP, MES, MBSE, Cyber Security, Digital Twin Technologies, Systems Integration, machine Learning/Artificial Intelligence Network, Configuration/Management, Software Development, CI/CD, SDLC, Virtualisation, Containerisation
3. - DIGITAL MANUFACTURING: Discrete Event Simulation, 3D Factory Simulation, 3D CAD Modelling, Data analytics and Visualisation, Management Accounting, Robotic Simulation, Automation Simulation, Virtual Commissioning, (Programming e.g. Python, C#), Supply Chain Analytics
 - METROLOGY: Metrology principles (measurement, calibration, traceability), Inspection planning, Geometric Dimensioning and Tolerancing (GD&T), Measurement tools (traditional hand held, CMM, Laser scanners & trackers) and software (such as PC-DMIS / Polyworks / SA...), NDT & Machine Vision, Surface metrology, 3D CAD Design & Reverse Engineering, Measurement System Analysis, Data Analysis & reporting
4. - MACHINING: CNC Programming (G-code, M-code), CAD/CAM Proficiency (e.g., Catia, Siemens NX, Mastercam), Fixture Design, Geometric Dimensioning & Tolerancing, Multi-axis CNC Machining (3-axis, 5-axis, mill-turn), Material and tooling Selection, Root Cause Analysis & Troubleshooting, Design for Manufacturability (DFM) & Assembly, Digital Simulation (e.g., Vericut, 3rd Wave,), Vibration Analysis & Modal Testing.
5. Demonstrable evidence of delivering projects to agreed deadlines and within budget.
6. Experience of using research/industrial tools and techniques resulting in high quality projects and technical reports.
7. Evidence of complex problem-solving skills obtained with a proven ability to develop innovative solutions.
8. Excellent written and verbal communication skills, including ability to communicate complex technical information.
9. Willingness to visit collaborative partners and to attend meetings and conferences nationally and internationally as requested.

DESIRABLE CRITERIA:

1. Postgraduate qualification in a relevant discipline.
2. Experience of collaborative research and effective working in a team.
3. Experience of working with industrial OEMs and SMEs.
4. Demonstrable experience with securing and creating value from industrially generated data for data driven decision making.