Candidate Information

Position: Senior Automation Engineer
School/Department: BRCD AMIC
Reference: 25/112576
Closing Date: Monday 9 June 2025
Salary: £39,922 - £47,631 per annum
Anticipated Interview Date: Wednesday 9 July 2025
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 existing team of highly capable and experienced staff has core capabilities in digitalising manufacturing, smart design, sustainable polymers & composites and nanotechnologies & photonics. We're excited to be expanding the team throughout 2025 and beyond.

We are seeking engineers who want to innovate and apply their knowledge to the challenges of industry and society to support fabrication and welding projects within AMIC's advanced manufacturing activities. You will apply your specialist knowledge and experience of methods, processes and process validation to generate innovative research outputs which have a direct economic and technical benefit to companies and sectors. You will work collaboratively with your team, industry, technology providers, national technology centres and academia to deliver key projects focused on advanced manufacturing.

MAJOR DUTIES:

1. Apply technical knowledge and experience in support of the development of innovative and emerging welding and fabrication processes.
2. Undertake high quality industrial research, development and knowledge transfer in the area of advanced welding and fabrication processes.
3. Take a leading role in the development and implementation of welding and fabrication projects e.g. welding trials, case studies and direct client project delivery.
4. Formally evaluate the effectiveness of new or enhanced welding and fabrication technologies, fixturing methods, and quality assurance methods.
5. Engage with industrial partners to facilitate the transfer of AMIC capabilities into commercial production.
6. Contribute to the planning, development, delivery, maintenance and trialling of AMIC projects, ensuring that all equipment is used in compliance with Health and Safety guidance.
7. Participate constructively in multi-disciplinary research activities, including staff training and development.
8. Help develop the international reputation of AMIC and QUB through presentations, attendance at tradeshows and visiting major companies and research & technology centres worldwide.
9. Produce high quality technical reports and demonstrations to assist in generating funding opportunities to support further programme activity.
10. Carry out routine administrative tasks to ensure project goals are completed on time and within budget.
11. Undertake any other duties that may reasonably be requested by management.

ESSENTIAL CRITERIA:

1. Minimum of Higher National Diploma/Certificate in a relevant engineering discipline with significant relevant and recent industrial experience.
2. Demonstrate an in-depth understanding and recent relevant experience of automated processes in manufacturing.
3. Demonstrable knowledge and experience of industrial welding and fabrication processes.
4. Knowledge of robotic welding processes.
5. Experience of using 3D CAD solutions to assist with the design of automated systems.
6. Knowledge of jig and fixture design to support fabrication processes.
7. Knowledge of safety systems and their use in automated solutions.
8. Demonstrable evidence of working within multifaceted environments delivering to deadlines and within budget.
9. Experience of using research/industrial tools and techniques resulting in high quality projects and technical reports.
10. Evidence of complex problem-solving skills obtained with a proven ability to develop innovative solutions.
11. Excellent written and verbal communication skills, including ability to communicate complex technical information.

DESIRABLE CRITERIA:

1. Experience of collaborative research and effective working in a team.
2. Experience of working with international OEMs and SMEs.
3. Demonstrable experience with securing and creating value from industrially generated data for internal data driven decision making.
4. Experience of programming one or more brands of industrial robot systems and/or collaborative robot systems.
5. Experience of programming and operation of automated fabrication machinery (e.g. laser cutter, plasma cutter, press-brake).