

Candidate Information

Position:	Senior Engineer Automation
School/Department:	BRC D AMIC
Reference:	24/112279
Closing Date:	Monday 3 February 2025
Salary:	£39,922 - £47,631 per annum
Duration:	3 years

AMIC:

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 over 40 staff has core capabilities in digitalising manufacturing, smart design, sustainable polymers & composites and nanotechnologies & photonics. We are excited to be expanding the team throughout 2024.

JOB PURPOSE AND IMPACT:

We are seeking engineers who want to innovate and apply their knowledge to the challenges of industry and society to support the delivery of automation and robotics 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 industry-focused solutions.
2. Undertake high quality industrial research, development and knowledge transfer in the area of automation and robotics process development.
3. Development and implementation of automation and robotics technology to meet industrial challenges.
4. Development and implementation of relevant Industrial Digital Technologies (IDT's) supporting the concept of the Smart Factory.
5. Formally evaluate the effectiveness of new or enhanced methods arising from research.
6. Engage with industrial partners to facilitate the transfer of AMIC capabilities into commercial production.
7. 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.
8. Participate constructively in multi-disciplinary research activities, including staff training and development.
9. Help develop the international reputation of AMIC and QUB through presentations, attendance at tradeshow and visiting major companies and research & technology centres worldwide.
10. Produce high quality technical reports and demonstrations to assist in generating funding opportunities to support further programme activity.
11. Carry out routine administrative tasks to ensure project goals are completed on time and within budget.
12. Undertake any other duties that may reasonably be requested by management.

ESSENTIAL CRITERIA:

1. Honours degree or equivalent in a relevant engineering discipline, science. Consideration will be given to applicants without a degree but who has substantial relevant industrial experience in a similar role.
2. Significant relevant industrial experience with in depth understanding of fundamental engineering concepts in the application of automation and robotic technologies.
3. Experience of using 3D CAD solutions to assist with the design of automated systems.
4. Knowledge of safety systems and their use in automated solutions.
5. Demonstrable evidence of working within multifaceted environments delivering to 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. Ability to innovate and rapidly contribute to research projects.
10. 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 international OEMs and SMEs.
4. Demonstrable experience with securing and creating value from industrially generated data for internal data driven decision making.
5. Experience of programming one or more brands of industrial robot systems and/or collaborative robot systems.
6. Experience/knowledge of one or more industrial robotic applications such as automated welding, automated assembly, automated machine tending.