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**QUEEN'S
UNIVERSITY
BELFAST**

ADVANCED MANUFACTURING INNOVATION CENTRE

Position: Senior Engineer – Digital Transformation (2 posts)
School/Department: Advanced Manufacturing Innovation Centre (AMIC)
Reference: 25/113014
Reports to: Digital Transformation Lead
Closing Date: Monday 8 December 2025
Salary: £41,519 - £49,536 per annum
Anticipated Interview Date:

JOB PURPOSE AND IMPACT:

The Digital Manufacturing Transformation Platform (DATUM) project is focused on engaging with companies in the management and expansion of applied research, innovation and knowledge transfer in Digitised Manufacturing and Industry 4.0. It is a project supported by PEACEPLUS (Innovation Challenge Fund) managed by the Special EU Programmes Body (SEUPB), and is delivered by AMIC in partnership with Irish Manufacturing Research (IMR). As part of DATUM, the post holder will support the engagement with manufacturing companies, assessing their Digital Maturity and, with them, develop Digital Transformation Plans to inform the development and delivery of Collaborative Innovation projects.

We are seeking Engineers, who are team-players, excellent communicators and who want to innovate and apply their knowledge of technology to accelerate digital transformation within SME (Small and Medium-sized Enterprises) within the Digital Manufacturing Transformation Platform (DATUM) project.

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 team of 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.

MAJOR DUTIES:

Under the leadership and direction of the Digital Transformation Lead;

Engaging with, and assessing manufacturing companies

1. As part of the Datum Project, engage with Manufacturing companies, applying leading frameworks and tools to evaluate a manufacturer's digital maturity across process, technology and organisation.
2. Identify opportunities for improvement – pinpointing specific priority areas of manufacturing that can lead to the most improvements.
3. Developing tailored Digital Transformation Roadmaps for the manufacturers participating on Datum project, to outline the steps needed to meet their Industry 4.0 goals.
4. With support from the AMIC technical team provide expert advice on priority technologies and processes and inform the development and delivery of Collaborative Innovation projects within Datum.

Internal and External Relationships

1. As part of the Datum project assist with developing relationships with customers, suppliers and industry leaders.
2. Participate in external activities related to specialisation.
3. Liaising with Datum project partners, from the shop floor to business owners to understand how they operate.
4. Coordinating and liaising with other members of project teams over work progress.

Planning and Organising

1. Plan own work to meet given objectives and processes within the Datum project.
2. Plan, schedule and monitor work activities to meet time and quality targets.
3. Plan for the use of research resources and laboratories where appropriate.

Resource Management and Other Responsibilities

1. Responsibility for delegated Datum project work packages, including technical, financial and quality aspects.
2. Ensure research and development resources, necessary for the Datum project, are used in an effective and efficient manner.
3. Provide guidance as required to staff and any students who may be assisting with research projects.
4. Any other duties commensurate with the role that may reasonably be requested by management.

ESSENTIAL CRITERIA

1. Honours Degree, or equivalent, in related engineering or computer science discipline, or minimum HND in a related discipline with extensive recent and relevant experience.
2. Demonstrable relevant experience in engaging and consulting with manufacturing

companies, and assessing their digital capabilities, identifying opportunities for improvement and providing expert advice on technology and process solutions.

3. Ability to build effective and productive relationships, and interact with a range of stakeholders.
4. Demonstrable evidence of working within multifaceted environments delivering to deadlines and within budget.
5. Experience in contributing to and creating reports and presentation materials, and in communicating complex information to a range of audiences.
6. Evidence of technical excellence and understanding of fundamental engineering concepts.
7. Experience that demonstrates extensive breadth and depth of knowledge in the discipline and of research and development methods and techniques to work within established research programs, with proven competence and technical expertise in:
 - Theory and implementation of Digitised Manufacturing with experience using relevant software packages and associated manufacturing technologies.
 - Specific knowledge and experience in related technical areas such as machine connectivity, enterprise systems, data visualisation and analysis, machine learning and cyber security.
8. Experience of collaborative working in multidisciplinary research and development teams.

DESIRABLE CRITERIA

1. Postgraduate and/or professional qualification in a relevant discipline
2. Experience of working with international OEMs and SMEs.
3. Understanding theory and demonstrated application of process mapping, Lean thinking and modern manufacturing philosophies.
4. Experience in the application of commercial digital manufacturing/simulation software tools.
5. Familiarity with process cost estimating / modelling, costing philosophies.
6. Experience with manufacturing automation.
7. Familiarity in the theory and application of Artificial Intelligence in a manufacturing environment.
8. Experience in building and developing teams.
9. Experience assisting in securing revenue or funding to support the activities of an R&D group.

ADDITIONAL INFORMATION

DATUM is a project supported by PEACEPLUS, a programme managed by the Special EU Programmes Body (SEUPB).