



Candidate Information

Position: Senior Digital Manufacturing Engineer (DES)
Reference: 24/112266
Closing Date: Monday 3 February 2025
Salary: £39,922 - £47,631 per annum.
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 experienced staff team has core capabilities in digitalising manufacturing, smart design, sustainable polymers & composites and nanotechnologies & photonics. We're excited to be expanding the team throughout 2024.

Job Purpose & Impact:

We are seeking engineers who want to innovate and apply their knowledge to the challenges of industry and society to support Digital Manufacturing within AMIC's advanced manufacturing activities. You will apply your specialist knowledge and experience of methods and processes, 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 projects, development and knowledge transfer in the area of Digital Manufacturing processes, and in particular Discrete Event Factory Simulation.
3. Formally evaluate the effectiveness of new or enhanced methods arising from research.
4. Engage with industrial partners to facilitate the transfer of AMIC capabilities into commercial R&D teams.
5. Participate constructively in multi-disciplinary research activities, including staff training and development.
6. Help develop the international reputation of AMIC through presentations, attendance at trade-shows and visiting major companies and research & technology centres worldwide.
7. Produce high quality technical reports and demonstrations to assist in generating funding opportunities to support further programme activity.
8. Carry out routine administrative tasks to ensure project goals are completed on time and within budget.
9. Undertake any other duties that may reasonably be requested by management.

ESSENTIAL CRITERIA:

1. Undergraduate degree, or equivalent, in related engineering discipline. Consideration will be given to applicants without a degree but who have substantial relevant industrial experience in a similar role.
2. Significant relevant experience in a manufacturing-related environment OR Extensive industrial experience including the application of DES factory simulation technologies.
3. Demonstrable experience and in-depth knowledge in the application of Digital Manufacturing simulation technology for production management and factory planning.
4. Experience in using Digital Manufacturing technology in Advanced Manufacturing.
5. 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. Excellent written and verbal communication skills, including ability to communicate complex technical information.
8. Ability to innovate and rapidly contribute to research projects.
9. Willingness to visit collaborative partners and to attend meetings and conferences nationally and internationally as requested.

DESIRABLE CRITERIA:

1. Familiarity with production management techniques such as Lean manufacturing, Six Sigma and TOC.
2. Experience of collaborative Industrial projects and effective working in a team.
3. Evidence of resource management.
4. Experience of working with international OEMs and SMEs.
5. Experience in using commercial digital manufacturing/simulation software tools.
6. Demonstrable experience with securing and creating value from industrially generated data for data driven decision making.