

Candidate Information

Position:	Digital Manufacturing Engineer
School/Department:	Northern Ireland Technology Centre (NITC)
Reference:	21/109434
Closing Date:	Wednesday 5 January 2022
Salary:	£34,304 - £36,382 per annum
Anticipated Interview Date:	Monday 17 January 2022
Duration:	26 Months

JOB PURPOSE:

To support Digital Manufacturing activities within NITC, utilising specialist knowledge and experience of methods and processes, to generate innovative research outputs which have a direct economic and technical benefit. Working collaboratively with academia, technology providers, national technology centres, and industry to deliver key projects focused on evolving Digital Manufacturing activities.

MAJOR DUTIES:

1. Undertake high quality industrial research, development and knowledge transfer in the area of Digital Manufacturing process development, and in particular in one or more of the following technology areas:
 - a. 3d factory Simulation
 - b. Robotic Simulation
 - c. Automation Simulation.
2. Formally evaluate the effectiveness of new or enhanced methods arising from research and document activities through formal high quality technical reports.
3. Engage with industrial partners to facilitate the transfer of NITC capabilities into commercial R&D teams.
4. Contribute to the planning, development, delivery, maintenance and trialling of NITC projects, insuring that all equipment is used in compliance with Health and Safety guidance.
5. Help develop the international reputation of NITC and QUB through presentations, attendance at trade-shows and visiting major companies and research & technology centres worldwide.
6. Carry out routine administrative tasks to ensure project goals are completed on time and within budget.
7. Undertake any other duties that may reasonably be requested by management.

Planning and Organising:

1. Plan and prioritise own work to meet given objectives and processes.
2. Liaise with other team members to achieve co-ordinated progress against objectives.

Resource Management Responsibilities:

1. Ensure research and development resources are used in an effective and efficient manner.
2. Provide guidance as required to staff and any students who may be assisting with the research project.

Internal and External Relationships:

1. To work effectively as a team member with both NITC colleagues and academic colleagues in the pursuit of high quality project deliverables.
2. Participate in external engagements with commercial partners, suppliers, government bodies and academic institutions related to specialisation.

ESSENTIAL CRITERIA:

1. Honours Degree, or equivalent, in related engineering discipline OR minimum HND in related engineering discipline with at least three years' relevant experience.
2. Competent in the application of Digital Manufacturing simulation technology.
3. Strong evidence of complex problem solving skills obtained / relevant for industrial manufacturing problems.
4. Experience of using research tools and techniques resulting in high quality project and technical reports.
5. Evidence of communicating complex technical information.
6. Evidence of leading and delivering on multifaceted projects within deadlines and budget, displaying strong resource management ability.
7. Proven ability to work effectively unsupervised and / or as part of a wider team.

DESIRABLE CRITERIA:

1. Experience in using Digital Manufacturing technology in Agri-food Sector.
2. Experience in using commercial digital manufacturing/simulation software tools.
3. Experience of providing training and practical guidance to others.
4. Hold or be about to hold a relevant higher degree or Ph.D.
5. Experience of collaborative research and effective working in a team.
6. Experience of working with international OEMs and SMEs.