



Candidate Information

Position:	Manufacturing Engineer - Automation and Robotics
School/Department:	Northern Ireland Technology Centre (NITC)
Reference:	19/107321
Closing Date:	Tuesday 30 April 2019
Salary:	£33,199 - £39,610 per annum (potential to progress to £43,266 per annum through sustained exceptional contribution)
Duration:	Available until 30 April 2022

JOB PURPOSE:

To support Automation and Robotics activities within NITC including the development of new methods and processes, process validation and generation of research outputs which have a direct economic and technical benefit. Working collaboratively with technology providers, national technology centres, academia and industry to deliver key projects focussed on Automation and Robotics activities.

MAJOR DUTIES:

1. Undertake high quality industrial research, development and knowledge transfer in the area of Automation and Robotics process development, and in particular in one or more of the following technology areas:
 - a. Industrial Robotics
 - b. Collaborative Robotics
 - c. Automation.
 - d. Automation Control.
2. Development and implementation of selected technology applications.
3. Development and implementation of digital technologies supporting selected technology.
4. Development and implementation of smart factory technologies.
5. Formally evaluate the effectiveness of new or enhanced methods arising from research.
6. Document activities through formal high quality technical reports.
7. Engage with industrial partners to facilitate the transfer of NITC capabilities into commercial R&D teams.
8. Contribute to the planning, development, delivery, maintenance and trialling of NITC projects.
9. Participate constructively in multi-disciplinary research activities, including staff training and development.
10. Help develop the international reputation of NITC and QUB through presentations, attendance at trade-shows and visiting major companies and research & technology centres worldwide.
11. Produce high quality technical reports and demonstrations to assist in generating funding opportunities to support further programme activity.
12. Carry out routine administrative tasks to ensure project goals are completed on time and within budget.
13. Undertake any other duties that may reasonably be requested by management.

Planning and Organising:

1. Plan own work to meet given objectives and processes.
2. Plan, schedule and monitor work activities in order to meet time and quality targets.
3. Plan for the use of research resources and laboratories where appropriate.
4. Plan in advance to meet deadlines as required by management and project requirements.
5. 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. Participate in external engagements with commercial partners, suppliers, government bodies and academic institutions related to specialisation.
2. Coordinate and liaise with other members of the project team over work progress.

ESSENTIAL CRITERIA:

1. 2:1 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 Automation and Robotics technology in your selected technology areas, with clear experience of using supporting computer aided manufacturing solutions
3. Strong evidence of complex problem solving skills obtained with a proven ability to develop innovative solutions.
4. Experience of using research tools and techniques resulting in high quality project and technical reports.
5. In depth understanding of fundamental engineering concepts.
6. Evidence of communicating complex technical information.
7. Evidence of leading and delivering on multifaceted projects within deadlines and budget, displaying strong resource management ability.

DESIRABLE CRITERIA:

1. Hold or be about to hold a relevant higher degree or Ph.D.
2. Experience of collaborative research and effective working in a team.
3. Experience of working with international OEMs and SMEs.
4. Experience in using Automation and Robotics technology in selected technology area.

ADDITIONAL INFORMATION:

Further information about the Northern Ireland Technology Centre can be found at www.qub.ac.uk/nitc

Informal enquiries may be directed to Mr Colm Higgins, email c.j.higgins@qub.ac.uk