**Job Description**

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| Job Title: | Research, Development & Innovation Project Leader (KTP Associate) |
| Faculty/Department: | School of Computer Science |
| Reporting to: | Dr Baseer Ahmad |
| Duration: | 36 months |
| Job Family: | KTP |
| Pay Band: | Band 6 |
| Benchmark Profile: | KTP Associate |
| DBS Disclosure requirement: | NO |
| Vacancy Reference: | FSXXXX |

**Details Specific to the Post**

**Background and Context**

Gateway Chassis Solutions, designs and manufactures a range of chassis for Caravan Holiday Homes, Leisure Lodges and Residential Park Homes. Their range of chassis have been designed to suit a wide range of applications in the industry.

With this KTP partnership between Gateway Chassis Solutions and the University of Hull, the project will investigate, develop and embed an innovative, safe and efficient robotic welding system into a traditional manufacturing environment. It will boost company productivity, foster a culture of change, drive company diversification and lay the foundation for new market development including export opportunities.

**Specific Duties and Responsibilities of the post**

* Manage software design, development, and deployment of the robotic systems to the required specifications.
* Identify, collect, characterise, collate, and analyse project-relevant data.
* willingness to learn new concepts and engage with them proactively and constructively
* Engage with Gateway Chassis Solution employees for technology development
* Work with multiple departments and specialisms to facilitate knowledge transfer between the University of Hull and Gateway Chassis Solutions
* Prepare and present progress reports at Local Management Committee (LMC) meetings and other project-related meetings and fora
* Undertake generic and bespoke training aspects of the Knowledge Transfer Partnership (KTP) scheme, including CPD

**GENERIC JOB DESCRIPTION**

The job duties and responsibilities listed below are intended to describe the general nature of the role. The duties and responsibilities and the balance between the elements in the role may change or vary over time depending on the project needs at a specific point in time or due to changing needs in the department. Candidates should note that there may not be an immediate requirement to carry out all the activities listed below.

### Overall Purpose of the Role

A KTP Associate post is a career development role which gives graduates an opportunity to manage a challenging project central to a business’s strategic development and long-term growth.

Through the KTP project, the KTP Associate will play a key role in managing and implementing tactical or strategic development in the business and transferring knowledge between the business and the University. KTP Associates own their project and are supported by experienced staff from the business and the University.

The KTP Associate will receive close supervision and direction from more senior colleagues and will receive academic and pastoral support and guidance which may include specific training, career counselling and mentoring.

The main focus of the work will involve the research and development, testing and deployment of the robotic system and relevant tools. The role holder will also assist with analysing and interpreting results and drafting research reports and publications.

**Main Work Activities**

Pro-actively contribute to the research project and conduct own research to include:

* Gather, prepare, analyse and interpret data
* Conduct literature and database searches
* Write up and present own research results.

Contribute to the management of research projects to include:

* Contribute to the planning of projects
* Plan own research activity within the framework of the agreed programme.

Prepare reports and papers describing the results of the research for both internal and external publication to include:

* Contribute to the production of research reports and publications
* Present information on research progress and outcomes to bodies supervising research.

Work positively with colleagues in the research team and other collaborators, partners and support staff on routine matters both inside and outside the University:

* Make internal and external contacts to develop knowledge and understanding and form relationships for future collaboration
* Actively participate as a member of the research team which will involve attending and contributing to relevant meetings.

Provide guidance as required to support staff and any project students who may be assisting with the research.

Demonstrate evidence of own personal and professional development including:

* Appraisal, induction and performance reviews
* Participation in training and development activity
* Maintenance of links with professional institutions and other related bodies.

### Additionally, the post holder will be required to:

* Fulfil the employee’s duties described in the University’s health and safety policies and co-operate with the health and safety arrangements in place within the department. May be required to undertake specific health and safety roles on request e.g. display screen equipment assessor, departmental safety officer, fire warden
* Show a commitment to diversity, equal opportunities and anti-discriminatory practices. This includes undertaking mandatory equality and diversity training
* Comply with University regulations, policies and procedures

**PERSON SPECIFICATION**

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| **Specification** | **Essential** | **Desirable** | **Examples measured by** |
| **Education and Training**  Formal qualifications and relevant training | An honours degree (preferably at the 2:1 level or above) in a subject area related to the project. Such as Data Science, Business Analytics or a related discipline. | Masters qualification or a doctorate - in a relevant subject, such as Data Science, Business Analytics or a related discipline | CV  Interview |
| **Work Experience**  Ability to undertake duties of the post | The candidate should have undertaken practical project work successfully in a subject area related to the project. | Working knowledge of data collection, and AI programming.  Relevant experience of working in a commercial and/or industrial environment. | CV  References  Interview |
| **Skills and Knowledge**  Includes abilities and intellect | Experience of using AI and ML.  Hands-on experience in robotic simulation tools and implementing algorithms on robotic systems.  Familiarity with extracting and analysing telemetry data from robots Such as different IoT and communication protocols.  The candidate should be able to organise their own time effectively and independently to prescribed timescales and objectives.  The candidate should be able to express themselves both clearly and articulately in both verbal and written forms.  The candidate should be able to identify work where they have demonstrated accuracy, creativity and attention to detail within that work.  The candidate should be able to evidence their competence in IT skills and problem solving. | sound technical knowledge of mechanical and robotic CAD, graphical user interface design and Robotic Operating systems ROS  Project management experience including: data security, regulations and compliance, regulatory awareness and compliance. | Covering letter  CV  References  Interview |
| **Personal Qualities**  Includes any specific physical requirements of the post – (subject to the provisions of the Equality Act 2010) | The candidate should demonstrate that they are self-motivated, able to work both independently and well within a team and that they can deliver desired outputs, deliverables and milestones to agreed deadlines. | Personal and professional integrity, including compliance with academic and/or company policies, such as confidentiality, data security, ethics, health and safety in the workplace, etc. | Covering letter  CV  References  Interview |