



Candidate Information

Position:	Digital Transformation/Innovation Engineer - KTP Associate - Kiverco Limited
School/Department:	Research and Enterprise
Reference:	25/112411
Closing Date:	Monday 10 March 2025
Salary:	£32,000 - £40,000 per annum. One of the key KTP benefits is access to a £4,000 training and development budget over the 24 month project.
Anticipated Interview Date:	Thursday 27 March 2025
Duration:	24 months

JOB PURPOSE:

To deliver a Knowledge Transfer Partnership (KTP) project for Kiverco Ltd in partnership with Queen's University Belfast to utilise innovative digital twin technology to enhance the quality and performance of our bespoke recycling plant, improve plant design engineering and drive efficiency and productivity in manufacturing activities aligned with customer demand for sustainable plant and high levels of purity in recovered material.

Employed and supported by a team of academic experts from the University, you will be based at Kiverco in Dungannon, Co. Tyrone.

As a KTP Associate, you will lead on the delivery of the following key project stages:

- Stage 1: Project Exploration, Technology Review and Scoping.
- Stage 2: Software and Hardware Evaluation and Selection.
- Stage 3: Detailed Planning for Pilot Implementation and Testing.
- Stage 4: Full-scale Implementation.
- Stage 5: Post-Implementation Review and Optimisation.

MAJOR DUTIES:

1. Plan, manage and coordinate the items of work as laid out in the project plan (project work plan will be provided by Supervisors). Plan day-to-day activity and contribute to the planning and management of the project, approximately 3-6 months in advance.
2. Attend training modules (mandatory and additional job-specific training). This may be local, national and international. Ensure that all training and development activity is scheduled to ensure that progress on the work plan objectives is not interrupted or delayed.
3. Plan and manage day-to-day resources to ensure the project runs to time and on budget.
4. Coordinate and obtain approval for planned expenditure/allocation of resources with the Management Committee and Steering Group, and monitor travel and development budgets and produce a Personal Development Plan which will ensure best use of financial resources.
5. Build relationships with company, customers and technology partners of Kiverco, and university staff to ensure effective working practices are established.
6. Liaise with company staff on a daily basis.
7. Contribute to training of staff in the company and university as required, which may include the supervision of placement students or other staff members as required.
8. Attend and contribute to any appropriate meetings, both in the company and the university as required. Present regular progress reports to members of the Steering and Management Groups and to external audiences.
9. Perform any other additional duties as agreed by the Local Management Committee and Steering Groups to contribute to the development of the company, the university and the Associate.
10. Establish contacts with additional groups and organisations (other KTP Associates, other university departments, other industrial contacts, and Innovate UK) as required to develop knowledge and understanding and form relationships for future collaboration.
11. Act as an Ambassador for the Knowledge Transfer Partnership Programme.

ESSENTIAL CRITERIA:

1. Hold a university degree in an Engineering/Science/IT discipline, with Mechanical / Manufacturing / Electrical / Electronics, or Computer Science.
2. Significant experience in problem-solving and delivering innovative solutions, which may include academic projects, placements, or previous employment.
3. Relevant experience with digital tools such as CAD software (e.g., SolidWorks), data analysis platforms, and/or ERP/MRP systems.
4. Strong knowledge of digital technologies and automation systems.
5. Practical understanding of process mapping, systems integration, and risk management in engineering projects.
6. Experience in the specified areas may be evidenced through:
 - Completion of a module, academic research project, or student placement*.
 - Practical work conducted during employment or internships*.

*Applicants should indicate how their experience could be applied to this post.
7. Ability to think logically, create solutions and make informed decisions.
8. A high level of numeracy and the ability to interpret data.
9. Good oral, written and presentation skills.
10. High level of IT skills.
11. Highly disciplined, self-motivated, and driven to succeed, with the ability to work independently.
12. Strong team player with the capability to collaborate effectively in group settings.
13. Demonstrates enthusiasm and passion for the research or project area.
14. Exceptionally organized, detail-oriented, and skilled at meeting tight deadlines.
15. Keen interest in a long-term commitment to the company (Associates are normally invited to apply for permanent positions).
16. Ability to take part in Associate management courses (requiring two one-week periods in England).
17. Willing/able to travel throughout the UK and Ireland and abroad as necessary.
18. Ability to attend work place (Kiverco, Dungannon, Co. Tyrone) and other work locations as required.

DESIRABLE CRITERIA:

1. Hold or be about to obtain a postgraduate qualification (PGCert, MSc or PhD) in a related field, particularly in digital manufacturing, AI, or data-driven technologies.
2. Hold certifications or training in advanced AI, machine learning, or Industry 4.0 technologies.
3. Chartered Engineer status or working towards professional engineering accreditation (e.g., IMechE, IET).
4. Demonstrable skills and understanding in one or more of the following areas: analytical skills; sensors and signal data processing; data analytics and AI; digital product and process modelling.
5. Significant experience in product design and development processes within an engineering or manufacturing environment.
6. Relevant / significant work experience in control and monitoring.
7. Prior relevant experience in implementing or working with digital twin technologies or AI-driven systems.
8. Exposure to hardware and software integration projects, especially in manufacturing or recycling industries.
9. Familiarity with advanced sensor systems (e.g., NIR spectroscopy, computer vision systems) or similar technologies.
10. Demonstrable track record of stakeholder engagement and workshop facilitation.
11. Ability to deliver training and follow-up support to operatives.
12. Ability to influence people effectively.
13. Tenacious and committed to achieving goals.

ADDITIONAL INFORMATION:

Please note that the Shortlisting Panel cannot make assumptions on your experience or qualifications; it is the responsibility of the applicant to evidence their suitability for the role. As such your Application Form, CV and/or Cover Letter must clearly demonstrate how your Qualifications and Experience meet the Essential Criteria and, where possible, Desirable Criteria, as listed in the Candidate Information Booklet. Please ensure that you address all the criteria in the person specification and provide evidence to support your statements.

Knowledge Transfer Partnerships help forward thinking companies innovate for growth. They do this by connecting organisations who have an innovative idea with the knowledge and expertise to help deliver it. This dynamic three-way partnership formed between an inspired graduate, the university and the company means that the graduate, known as the KTP Associate, provides the link between an expert academic team and a dynamic organisation. This bridge gives the graduate unique and exceptional access to both world class academic support and experts from within the business.

For all KTP projects, the graduate is employed by the University but contracted to work at the business premises on a day-to-day basis, under the business' basic terms and conditions including holidays and hours of work. As a member of University staff, KTP Associates can join the University pension scheme, gain access to University resources including the Library. Please note that KTP Associates are not eligible for financial support for relocation from the University.

A KTP provides a fulfilling employment opportunity where you can apply your knowledge to turn a key strategic innovative idea into reality and although the KTP Programme is aimed at recent graduates, any suitable qualified graduate may apply. Each KTP Associate role is a fully salaried job and last between 12 months and three years with approximately 70% of Associates offered employment by the host business at the end of the project. Projects can be in any sector and for businesses of all sizes. Each KTP Associate will have a travel / training budget to provide funding for job-specific training and further professional development. Two, one week residential management training modules are also included as part of the package.

KTP aims to help businesses improve their competitiveness and productivity through the better use of knowledge, technology and skills held within the UK knowledge base. KTPs are funded by UKRI through Innovate UK with the support of co-funders, including the Scottish Funding Council, Welsh Government, Invest Northern Ireland, Defra and BEIS. Innovate UK manages the KTP Programme and facilitates its delivery through a range of partners including the Knowledge Transfer Network (KTN), Knowledge Bases (in this case, Queen's University Belfast) and Businesses.

More details are available at www.ktp-uk.org.

Informal enquiries can be directed to: ktp@qub.ac.uk