# Candidate Information

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| **Position:** | Systems Developer - KTP Associate - Devenish Nutrition |
| **School/Department:** | KTP and Business Networks |
| **Reference:** | 19/107237 |
| **Closing Date:** | Wednesday 27 March 2019 |
| **Salary:** | £25,000 to £33,000 per annum. One of the key KTP benefits for graduates is access to a £8,500 training and travel budget over the 24 month project. |
| **Anticipated Interview Date:** | Wednesday 10 April 2019 |
| **Duration:** | 24 months |

## Job Purpose

To apply Blockchain technology to develop a secure and advanced supply chain and traceability system in the agri-food sector from source, through the production processes, and onto the consumers.

## Main Activities and Responsibilities

Through a two Associate Knowledge Transfer Partnership with Queen's University Belfast, Devenish's overall aim is to apply Blockchain technology to develop a secure and advanced supply chain and traceability system in the agri-food sector from source, through the production processes, and onto the consumers. The two KTP Associates will be working together to achieve a common goal - Associate 1 will be the Systems Developer and Associate 2 will be the Blockchain Engineer.

Associate 1 (Systems Developer) will work with the existing software systems that provide data tracking within Devenish. Liaising with company staff in multiple sites, a common format for data will be identified and a combination of modifications and extensions to existing systems will permit this common format to be used throughout. The majority of this Associate's effort will be in designing and implementing the interface between the current systems and the blockchain storage. Working closely with the Blockchain Engineer the data will be partitioned according to its sensitivity so that appropriate block chain storage can be designed. This will involve travel to other companies with the group (GB, Turkey and USA) to evaluate their requirements and work alongside key stakeholders. This will require a thorough assessment of each company's production systems and data sources to understand how they can be incorporated into the Blockchain.

Associate 1: Systems Developer

Under the direction of the company and academic supervisors, and in close liaison with the Blockchain Engineer, this KTP Associate (System Developer) will deliver the following key project stages:

• Review data required and generated by existing software systems.
• Design of Common Data Format
• Specification/Design of modifications/wrappers for existing systems.
• Implementation of modifications/wrappers and data analytics for existing systems.
• Integration and testing of modified processing systems with blockchain storage.
• Documentation/Dissemination and Training.

## Planning and Organising

• Manage and coordinate the items of work as laid out in the project plan (individual work plan will be provided by Supervisors).
• Plan day-to-day activity within the framework of the agreed work plan.
• Contribute to the planning and management of the project, approximately 3-6 months in advance.
• Ensure that all training and development activity is scheduled to ensure that progress on the work plan objectives is not interrupted or delayed.

## Resource Management and Responsibilities

• Plan and manage day-to-day resources to ensure the project runs to time and on budget.
• Coordinate and obtain approval for planned expenditure/allocation of resources with the Management Committee and Steering Group.

- Carry out supervision of placement students or other staff members as required.
- Monitor travel and development budgets and produce a Personal Development Plan which will ensure best use of financial resources.
- Attend training modules (mandatory and additional job-specific training).  This may be local, national and international.
- 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.

**Additional Information**
- Knowledge Transfer Partnerships is a UK programme that enables businesses to work with universities to gain access to specialist knowledge and expertise and apply it within their organisation.  Each Partnership recruits a Graduate to work in the company, implementing and embedding the latest research techniques.  Guidance is provided by the academic and company supervisors to ensure that the objectives of the project are met.  Although the scheme is aimed at recent graduates, any suitably qualified individual may apply.
- Each KTP is a fully salaried job that lasts between twelve and thirty six months, providing the graduate with an opportunity to fast track a career in industry.  Each KTP Associate has a training and development budget and a travel budget.  This funding provides opportunities for job-specific training, attending and presenting at conferences, visiting trade shows, customers and suppliers etc.  Two, one week residential management training modules are also provided as part of the package.
- This partnership received financial support from the Knowledge Transfer Partnerships (KTP) programme . KTP aims to help businesses to improve their competitiveness and productivity through the better use of knowledge, technology and skills that reside within the UK knowledge base. This successful Knowledge Transfer Partnership project, funded by UK Research and Innovation through Innovate UK, is part of the government's Industrial Strategy.
- As members of University staff, KTP Associates can join the University pension scheme, gain access to University resources such as the Library and sports facilities.

  More details are available at www.ktpjobsni.com.

**ESSENTIAL CRITERIA**
- Hold, or be about to obtain in July 2019, at least a 2.1 Honours Degree (or equivalent) in Computer Science or a closely related subject.
- Completion of a substantial software development project in either university or industry.
- Working experience of at least one of Java, C# or C++.
- Experience in database design and development.
- Good oral, written and presentation skills.
- Ability to deliver training and follow-up support to company staff.
- Ability to think logically, create solutions and make informed decisions. Strong analytical, problem-solving skills.
- A high level of numeracy and the ability to interpret data.
- Ability to work effectively as a member of a group.
- Team player with a desire to learn and a willingness to teach and mentor as part of a team.
- Able to take ownership of, and responsibility for, assigned work.
- Must be proactive, self-motivated, attentive to detail, well organised with the ability to meet tight deadlines.
- An interest in staying with the Company.  (Associates are normally invited to apply for permanent positions).
- Ability to take part in Associate management courses (requiring two one-week periods in England).
- Willing/able to travel throughout the UK and Ireland and abroad, as necessary.
- Travel to companies within the Group.

**DESIRABLE CRITERIA**
- Hold a higher degree in a relevant discipline.
- 1 year's relevant work experience*
- Relevant supply chain experience.
- Experience of building applications using Microsoft Visual Studio.
- Experience of software development in a manufacturing environment.
- An understanding of the agri-food sector.

  *may be demonstrated through completion of a relevant undergraduate project or placement.

- Ability to influence people effectively.
- Tenacious and committed to achieving goals.