



Candidate Information

Position:	Product Development Technician – KTP Associate – Moore Concrete
School/Department:	KTP and Business Networks
Reference:	19/107836
Closing Date:	Monday 7 October 2019
Salary:	£20,000 to £31,000. One of the key KTP benefits for graduates is access to a £10,000 training and travel budget over the 24 month project.
Anticipated Interview Date:	Friday 18 October 2019
Duration:	24 months

Job Purpose:

Design, test and manufacture ammonia abatement systems for use in the agricultural sector.

Main Activities and Responsibilities:

Moore Concrete are committed to meeting the needs of our customers and aim to offer highest quality precast concrete products ensuring innovative and flexible solutions within the Agricultural, Civils, and Building market sectors. The company has a unique combination of modern factory facilities, people skills, design expertise and manufacturing experience. Reducing ammonia emissions is a major challenge for the Northern Ireland Livestock sector.

We wish to recruit a skilled graduate to work as a KTP Associate in Moore Concrete Ltd in collaboration with the Agri-Food & Bioscience Institute (AFBI) & Queen's University Belfast for 24 months. Through this Knowledge Transfer partnership, the project will design, test and manufacture ammonia abatement systems for use in the agricultural sector. This KTP will enable us to bring innovative, world leading, precast animal housing solutions to market. The postholder will be based in Moore Concrete (Ballymena) and will spend time at AFBI (Hillsborough) to carry out testing.

Under the guidance of the company and academic supervisors the KTP Associate will deliver the following key project phases:

1. Market and Literature Review.
2. Product design and manufacture of novel flooring and storage.
3. Testing of ammonia mitigation abatement potential from novel flooring design and slurry covers at the meso-scale at AFBI Hillsborough.
4. Development of Decision Support tool/model to calculate emissions.
5. Product and Model launch.

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.

Internal and External Relationships:

- Present regular progress reports to members of the Steering and Management Groups and to external audiences.
- Liaise with company staff on a daily basis. Contribute to training of staff in the company and university as required.
- Build relationships with both company and university staff to ensure effective working practices are established.
- Attend and contribute to any appropriate meetings, both in the company and the university as required.
- 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.
- Act as an Ambassador for the Knowledge Transfer Partnership Scheme.

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:

1. At least a 2.1 Honours Degree (or equivalent) in Biological Sciences/ Agriculture / Environmental Sciences or a closely related discipline. Applicants who hold a 2.2 in the above, will also be considered if they have either a relevant higher degree or have completed one years' relevant work experience.
2. 6 months' relevant work or research experience.*
(*may be demonstrated through the completion of a student project or placement).
3. Proven ability to initiate and conduct innovative scientific experiments in a relevant area.
4. Demonstrable knowledge of the agricultural industry (may be demonstrated through the completion of a module, student project or work experience).
5. Good oral written and presentation skills.
6. High level of IT skills.
7. Ability to think logically, create solutions and make informed decisions.
8. A high level of numeracy and the ability to interpret data.
9. Ability to work effectively as a member of a group.
10. Well organised, attention to detail and ability to meet tight deadlines.
11. An interest in staying with the Company. (Associates are normally invited to apply for permanent positions).
12. Ability to take part in Associate management courses (requiring two one-week periods in England).
13. Willing/able to travel throughout the UK and Ireland and abroad, as necessary.

Desirable:

1. Hold, or be about to obtain, a higher degree in a relevant discipline.
2. 1 year's relevant work or research experience.
3. Experience of modern agricultural practices & technology.
4. Demonstrable experience of designing experiments.

5. Experience in statistically analysing experimental data.
 6. An in-depth scientific knowledge of ammonia emissions from agriculture.
 7. Practical experience of techniques for measurement of ammonia emissions, or of similar relevant techniques in a related area of science.
 8. Experience in Technical Report writing.
 9. Modelling e.g. AutoCAD, Solid Works.
- *may be demonstrated through the completion of a module, student project or placement.
10. Ability to deliver training and follow-up support to operatives.
 11. Ability to influence people effectively.
 12. Tenacious and committed to achieving goals.