

## Candidate Information

<b>Position:</b>	Civil/Structural/Mechanical Engineer - KTP Associate - IG Masonry Support
<b>School/Department:</b>	KTP and Business Networks
<b>Reference:</b>	19/107504
<b>Closing Date:</b>	Tuesday 18 June 2019
<b>Salary:</b>	£24,000 to £34,000 per annum. One of the key KTP benefits for graduates is access to a £9,325 training and travel budget over the 30 month project.
<b>Anticipated Interview Date:</b>	Thursday 4 July 2019
<b>Duration:</b>	30 months

### JOB PURPOSE:

Development of an off-site, prefabricated brick slip cladding system for on-site deployment which is capable of adapting to different construction methods.

IG Masonry Support was set up in 2014 to deliver structural masonry support to the commercial sector. The company identified a need in the market for fast, high quality, off site fabricated masonry support and brick slip systems. IG Masonry Support has combined experience with innovation to provide the most practical and advanced range of masonry support products on the market. Offering optimum performance and design flexibility. IG has also developed a revolutionary brick on soffit system which radically reduces on site labour. IG also provides comprehensive technical support for all masonry support products. IG Engineers offer a free design service and on-site support offering a range of off the shelf and bespoke solutions.

We wish to recruit a graduate to work in Masonry Support Systems (postholder will be based in Cookstown) in collaboration with Queen's University Belfast on a 30 month project to develop an off-site, prefabricated brick slip cladding system for on-site deployment which is capable of adapting to different construction methods.

The programme of work will consist of the following key project stages:

### MAJOR DUTIES:

1. Review of current trends within building façade and masonry support sector and future market opportunities.
2. Conceptual design of prefabricated brick slip panel cladding system.
3. Brick slip support sub-assembly development and design.
4. Brick slip support to superstructure interface development and design.
5. Development and implementation of component testing.
6. Prototype fabrication, proof testing of entire façade system and performance evaluation.
7. Identification of requirements and procedure to obtain existing and new product compliance with harmonised standards to achieve mandatory CE marking.
8. Embedding technology and production process, development of R&D strategy.

### Planning and Organising:

1. Manage and coordinate the items of work as laid out in the project plan (individual work plan will be provided by Supervisors).
2. Plan day-to-day activity within the framework of the agreed work plan.
3. Contribute to the planning and management of the project, approximately 3-6 months in advance.
4. 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 Responsibilities:

1. Plan and manage day-to-day resources to ensure the project runs to time and on budget.

2. Coordinate and obtain approval for planned expenditure/allocation of resources with the Management Committee and Steering Group.
3. Carry out supervision of placement students or other staff members as required.
4. Monitor travel and development budgets and produce a Personal Development Plan which will ensure best use of financial resources.
5. Attend training modules (mandatory and additional job-specific training). This may be local, national and international.
6. 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:**

1. Present regular progress reports to members of the Steering and Management Groups and to external audiences.
2. Liaise with company staff on a daily basis. Contribute to training of staff in the company and university as required.
3. Build relationships with both company and university staff to ensure effective working practices are established.
4. Attend and contribute to any appropriate meetings, both in the company and the university as required.
5. 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.
6. Act as an Ambassador for the Knowledge Transfer Partnership Scheme.

#### **ESSENTIAL CRITERIA:**

1. Hold, or be about to obtain in July 2019, at least a 2.1 Honours Degree (or equivalent) in Civil, Structural or Mechanical Engineering or a closely related discipline.
2. At least 3 months' relevant practical experience.
3. Completion of an undergraduate module in structural steel design.
4. Excellent 3D CAD skills.
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 CRITERIA:**

1. Hold a higher degree in a relevant discipline.
2. Specialist knowledge of CE marking.
3. 1 year's relevant work experience.
4. Experience of designing, conducting, statistically analysing and writing up scientific experiments (demonstrated through completion of a module, student project or related work experience).
5. Ability to deliver training and follow-up support to operatives.
6. Ability to influence people effectively.
7. Tenacious and committed to achieving goals.

#### **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](http://www.ktpjobsni.com).