

## Candidate Information

<b>Position:</b>	VR Developer - KTP Associate - Graham Construction Ltd
<b>School/Department:</b>	KTP and Business Networks
<b>Reference:</b>	18/106863
<b>Closing Date:</b>	Friday 2 November 2018
<b>Salary:</b>	£21,000 to £35,000 per annum. One of the key KTP benefits for graduates is access to a £12,400 training and travel budget over the 26 month project.
<b>Anticipated Interview Date:</b>	Friday 16 November 2018
<b>Duration:</b>	26 Months

Develop competencies in the use and application of Virtual and Augmented Reality within Graham Construction

### Main Activities and Responsibilities

Working efficiently in the construction industry is a key element to secure more jobs and attract more clients. Graham Construction always tries to implement the latest technologies and processes to be ahead of other companies and work as efficiently and effectively as possible. We believe we have an opportunity to exploit VR and AR for use within our business.

The programme of work will consist of the following activities

1. Review the market.
2. Assess the company's existing capabilities.
3. Review development of a Virtual Collaborative Environment within Graham Construction.
4. Identify case studies for trialling new technology.
5. Review software.
6. Identify interoperability issues.
7. Develop digital workflow process and embed capability within Graham Construction.
8. Monitor and review results from case studies.
- 9 Embed VR capability within the company.

### 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.
- 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).

#### **ESSENTIAL CRITERIA**

- Hold an Honours degree or equivalent in Engineering, Computer Science, Gaming, Construction, Architecture or a closely related discipline.
- Good oral written and presentation skills.
- High level of IT skills.
- Ability to think logically, create solutions and make informed decisions.
- A high level of numeracy and the ability to interpret data.
- Ability to work effectively as a member of a group.
- Well organised, attention to detail and 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.

#### **DESIRABLE CRITERIA**

- Hold a higher degree in a relevant area.
- 3 months' relevant work experience.
- Experience of working with game engines.
- Experience in relevant programming languages.
- Good knowledge of augmented reality, virtual reality and other related emerging technologies. \*  
\*may be demonstrated through completion of a module, student project or placement.
- Research experience. \*  
\*may be demonstrated through completion of a module, student project or placement.
- Knowledge of the construction industry.
- Knowledge of Building Information Modelling (BIM).
- Ability to deliver training and follow-up support to operatives.
- Ability to influence people effectively.
- Tenacious and committed to achieving goals.