

Candidate Information

Position:	Researcher (Human States & Performance) – KTP Associate – Sensum
School/Department:	KTP and Business Networks
Reference:	18/106928
Closing Date:	Friday 16 November 2018
Salary:	£25,000 - £30,000 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:	30 November 2018
Duration:	24 months

JOB PURPOSE:

Development of an empathic AI interface for use in vehicles.

MAIN ACTIVITIES AND RESPONSIBILITIES:

We wish to recruit a Graduate to work in Sensum for 24 months in collaboration with Queen's University Belfast to develop an empathic AI interface for use in vehicles. The interface will use various arrays of sensors, combined with contextual information to create models of users states. These models will be used to generate actions appropriate to the situation.

Under the guidance of the company and academic supervisors the KTP Associate will provide the expertise necessary to deliver the following key integrated project phases:

1. Integration with Sensum Workflow–Learning Available Social Signals and Physiological Measures. The purpose of this stage is to collate information on the various signals that are available assessing their strengths, weaknesses and the risks associated with their use.
2. Exhaustive search and catalogue all the possible signals and data streams.
3. Data testing in a variety of contexts.
4. Deriving and testing the actionable insights for an interface.
5. Development of interface protocols.
6. Creation of Interface outputs.
7. Interface testing.
8. Consolidation and documentation of the interface components.

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.

ESSENTIAL CRITERIA:

1. Hold a Masters degree in Psychology or a closely related field.
2. Completion of a relevant research project, module or student placement. Applicants should indicate how their experience could be applied to this post.
3. Demonstrable experience in designing and running psychology experiments.
4. Demonstrable experience of the programming language R, or a related language.
5. Knowledge of research literature in the fields of emotion science and empathy.
6. Good oral written and presentation skills.
7. High level of IT skills.
8. Ability to think logically, create solutions and make informed decisions.
9. A high level of numeracy and the ability to interpret data.
10. Ability to work effectively as a member of a group.
11. Well organised, attention to detail and ability to meet tight deadlines.
12. An interest in staying with the Company. (Associates are normally invited to apply for permanent positions).
13. Ability to take part in Associate management courses (requiring two one-week periods in England).
14. Willing/able to travel throughout the UK and Ireland and abroad, as necessary.

DESIRABLE CRITERIA:

1. Hold, or be about to complete, a PhD in Psychology or a closely related subject.
2. Specialist knowledge of emotion research techniques.
3. Publication record commensurate with stage of career. (Can include placement or student project with a company)
4. Ability to deliver training and follow-up support to operatives.
5. Ability to influence people effectively.
6. 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.
- 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.