



Software Developer: INCA Project

Centre for Human-Computer Interaction  
Design

<http://www.city.ac.uk/>

April 2019

The University for business and the professions

## Role Profile

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<b>Post:</b>	Software Developer: INCA Project
<b>Department:</b>	Centre for HCI Design, Department of Computer Science
<b>School:</b>	School of Mathematics, Computer Science and Engineering
<b>Grade:</b>	Point 28 on Temporary Staff Salary Scale, £20.52 per hour
<b>Tenure:</b>	Total of 30 days (210 hours) before 31 <sup>st</sup> July 2019
<b>Responsible to:</b>	Stephanie Wilson

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### Background

We are seeking an experienced developer to undertake a small implementation project as part of the INCA research project, based in the Centre for HCI Design at City, University of London.

The INCA project is investigating how digital technologies can enable people with aphasia, a language impairment, to engage in creating digital content. We have created an iPad app, MakeWrite, for creative writing. This app uses the idea of constrained creativity, whereby reducing choices enables people to be creative (<https://blogs.city.ac.uk/inca/makewrite/>).

The postholder will develop a second app for constrained creation of digital content. This might focus on creating visual content, but there is some flexibility depending on the skills and interests of the individual appointed. The app will be developed either in Swift or Objective-C for the iPad or using a cross-platform development framework such as Xamarin or Flutter. The aim will be to release the app via the App Store in summer 2019. An evaluation workshop will be organised to test the app prior to completion; the postholder will participate in this event and produce a final version of the app based on the findings.

### Main Duties

- Work with the project team to finalise the design of a creativity app for people with aphasia
- Implement the creativity app for the iOS platform
- Document the code and the development process
- Participate in the design and conduct of an evaluation workshop
- Report regularly to the grant holders
- Contribute to the overall activities of the project team as required

### Additional Information

- The post holder must at all times carry out their responsibilities with due regard to the University's Equal Opportunities Statement
- The post holder must accept responsibility for ensuring that the policies and procedures relating to Health and Safety in the workplace are adhered to at all times.

- The post holder must respect the confidentiality of data stored electronically and by other means in line with the Data Protection Act.
- The post holder must carry out their responsibilities with due regard to the non-smoking environment of the University

### **Sustainable Development**

The University is committed to a policy of best practice to assist in building a sustainable way of life by taking a positive, solutions-orientated approach. All post holders are encouraged to contribute through their roles to improving the environment, for the University and the wider community. This is promoted via The Forum for the Future – Higher Education Project. Details of policy, information and the staff development supporting the policy on the environment will be promoted through the website and various University communication channels.

***The above list is not exclusive or exhaustive and the post holder will be required to undertake such duties as may reasonably be expected within the scope and grading of the post. All members of staff are required to be professional, co-operative and flexible in line with the needs of the post, Division, School and the University.***

## Person Specification

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### Qualifications

BSc in Computer Science (2.1 or above)

### Experience

Experience of developing for the iOS platform using either Swift or Objective-C, or experience of cross platform (iOS and Android) development frameworks

Experience with database management systems such as MySQL

### Knowledge

Knowledge of accessible design

Knowledge of human-computer interaction

### Skills

Skills in user-centred interaction design

Excellent problem solving skills

### Personal Qualities

An ability to work as part of a multidisciplinary team and respond to the ideas and suggestions of fellow team members

An ability to work independently and complete tasks with minimal supervision

Highly organised, with excellent attention to detail