# Candidate Information

**Position:** Research Assistant in Knowledge Engineering
**School/Department:** School of Electronics, Electrical Engineering and Computer Science
**Reference:** 25/112475
**Closing Date:** Monday 14 April 2025
**Salary:** £33,785 per annum
**Anticipated Interview Date:** Friday 2 May 2025
**Duration:** Available until 31 March 2026

## JOB PURPOSE:

The purpose of this job is to assist in the delivery of the research activity in the Applied Research and Engineering Centre, specifically in natural language based knowledge extraction and modelling for document processing in the financial technology sector.

## MAJOR DUTIES:

1. Undertake research into methods and techniques for knowledge extraction and modelling for document processing.
2. Lead in the development of research software prototypes.
3. Produce high quality research outputs in oral and written format.
4. Produce high quality research outputs consistent with project aims and commensurate with career stage. This will include collaborating and co-authoring with PI and project team (as appropriate) on outputs.
5. In consultation with the project team, promote research milestones and outputs at national and international conferences.
6. Assist grant holder in the preparation of funding proposals and applications to external bodies.
7. Carry out occasional educational supervision, demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.
8. Undertake supplementary duties relevant to the success of the project including administrative duties and additional training and development activities as required.

## ESSENTIAL CRITERIA:

1. Hold at least a 2:1 honours degree in Computer Science or closely related disciplines.
2. Have or about to obtain an MSc degree in Computer Science or closely related disciplines.
3. Recent relevant experience to include:
   • Demonstrable experience in the use of natural language processing (NLP) or machine learning (ML) or knowledge engineering (KE) tools in an academic or industrial context.
   • Demonstrable experience in programming/scripting, beyond that taught in undergraduate engineering courses.
   • A proven track record of using relevant techniques to carry out analyses, critical evaluations, and interpretations of data in a research context.
   • Working effectively as part of a research team in the development and promotion of the research theme.
4. Willingness to undertake additional training in research methods and other related skills as required.
5. Practical problem-solving skills, independence of thought and initiative.
6. Ability to communicate complex information effectively in oral and written format.
7. Ability to build relationships to develop internal and external networks.
8. Ability to assess and organise resources.
9. Willingness to travel to meet the requirements of the research project.

## DESIRABLE CRITERIA:

1. Have, or be about to obtain, a relevant PhD in Computer Science or closely related disciplines.
2. A publication record which is commensurate with career stage and experience.
3. Research experience in NLP or ML or KE.

4.    Experience in document analyses.

**ADDITIONAL INFORMATION:**

Informal enquiries may be directed to: Ivor Spence at i.spence@qub.ac.uk