### Research Centre

ADAPT Centre, Centre for Digital Content Platform Research

### Post title

Post-Doctoral Researcher in Machine Learning for Structure Mapping and Domain Adaptation

### Level on Framework

Level I

### Post duration

Three Years

As part of this role the researcher will be required to participate in the DCU Research Career Framework. This framework is designed to provide significant professional development opportunities to researchers and offer the best opportunities in terms of a wider career path.

### Background & Role

The ADAPT Centre, the centre for digital content platform research seeks to appoint a Post-Doctoral Researcher in Machine Learning for Structure Mapping and Domain Adaptation.

ADAPT is Ireland’s global centre of excellence for digital content and media innovation. Led by TCD, it combines the expertise of researchers at four universities (Trinity College Dublin, Dublin City University, University College Dublin, and Dublin Institute of Technology) with that of its industry partners to produce ground-breaking digital content innovations.
ADAPT brings together more than 120 researchers who collectively have won more than €100m in funding and have a strong track record of transferring world-leading research and innovations to more than 140 companies. With EURO 50M in new research funding from Science Foundation Ireland and industry, ADAPT is seeking talented individuals to join its growing research team. Our research and technologies will continue to help businesses in all sectors and drive back the frontiers of future Web engagement.

**Principle Duties and Responsibilities**
The Post-Doctoral Researcher will be required to carry out research in machine learning approaches to structure mapping and to develop techniques to transfer knowledge from one domain to another and from one language to another.

Reporting to her/his Principal Investigator, the Post-Doctoral Researcher will:

- Design and coordinate cross-language transfer experiments involving representation learning and intelligent instance selection
- Design and coordinate domain adaptation experiments involving representation learning and intelligent instance selection.
- Maintain the computing infrastructure needed to perform the planned research
- Take an active role in the supervision of the research carried out by ADAPT PhD students.
- Contribute to undergraduate and postgraduate teaching and supervision in the School of Computing.
- Report on progress at meetings and in writing to ADAPT centre management.
- Assist in identifying and developing future research and funding initiatives.
- Engage in the dissemination of the results of the research in which he/she is engaged with the support of and under the supervision of the Principal Investigator.
- Engage in appropriate training and development opportunities as required by the Principal Investigator, the School or Research Centre, or the University.
- Liaise with both internal and external stakeholders including industry and academic partners/collaborators.
- Carry out administrative work associated with the programme of research as necessary.

**Funding Information**
The position is funded through the Science Foundation Ireland (SFI) ADAPT Research Centre.

**Minimum Criteria**

It is *essential* that applicants have a PhD in Computational Linguistics or a related discipline, as well as the following:

- Excellent programming skills
- Excellent research skills, with extensive experience and a deep understanding of machine learning approaches to Natural Language Processing
It is desirable that applicants have:

- Research experience in the following areas: natural language parsing, language proofing, domain adaptation, sequence labelling tasks such as POS tagging and text normalisation
- Experience with high-end computing systems
- Relevant systems administration experience in a large research centre

**Salary:** €37,750 - €46,255
Appointment will be commensurate with qualifications and experience.

**Closing date:** 6th July, 2015

Candidates will be assessed on the following competencies:

**Discipline knowledge and Research skills** – Demonstrates knowledge of a research discipline and the ability to conduct a specific programme of research within that discipline.

**Understanding the Research Environment** – Demonstrates an awareness of the research environment (for example funding bodies) and the ability to contribute to grant applications

**Communicating Research** – Demonstrates the ability to communicate their research with their peers and the wider research community (for example presenting at conferences and publishing research in relevant journals) and the potential to teach and tutor students

**Managing & Leadership skills** - Demonstrates the potential to manage a research project including the supervision of undergraduate students.

**Application Procedure**

**Informal Queries to:** Aoife Brady [Aoife.brady@adaptcentre.ie](mailto:Aoife.brady@adaptcentre.ie). Please include the ADAPT Position Title in all email communications. Please do not send applications to this email address, instead apply as described below

Application forms are available from the DCU Current Vacancies (open Competitions) website at [http://www.dcu.ie/vacancies/current.shtml](http://www.dcu.ie/vacancies/current.shtml) and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0) 1 7005149.

**Please clearly state the role that you are applying for in your application and email subject line: Job Ref 111 Post-Doctoral Researcher in Machine Learning for Structure Mapping and Domain Adaptation**

Applications should be submitted by email to [hr.applications@dcu.ie](mailto:hr.applications@dcu.ie) or by Fax: +353 (0)1 7005500 or by post to the Human Resources Department, Dublin City University,
Dublin City University is an equal opportunities employer