



<b>Research Centre</b>	ADAPT Centre, Centre for Digital Content Platform Research
<b>Post title</b>	Post-Doctoral Researcher in Statistical Machine Translation (Spokes) – Two Posts
<b>Level on Framework</b>	Level 1
<b>Post duration</b>	Fixed Term Contract to December 2020

### **Research Career Framework**

As part of this role the researcher will be required to participate in the DCU Research Career Framework <http://dcu.ie/hr/ResearchersFramework/index.shtml>. This framework is designed to provide significant professional development opportunities to researchers and offer the best opportunities in terms of a wider career path.

DCU has a strong track record in attracting both Irish and European Union research funding under Horizon 2020 (and all previous Framework Programmes), Marie Curie Actions and Erasmus. We offer a dynamic and internationally-focused environment in which to advance your academic career.

### **Background & Role(s)**

The ADAPT Centre for digital content platform technology seeks to appoint two postdoctoral researchers in Neural Machine Translation (NMT) on the targeted research programme which addresses the research and development interests of ADAPT industry partners. It is envisaged that the two posts will commence in May 2018.

ADAPT is Ireland's global centre of excellence for digital content technology. 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 150 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 €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.

### **Principal Duties and Responsibilities**

The successful candidate will work within a large group of post-doctoral researchers, PhD students and software developers. The work of this post-doctoral researcher will be fundamental in applying ADAPT research breakthroughs in NMT to application areas identified by our commercial partners, with whom the researcher will work closely.

Reporting to the Principal Investigator, the Postdoctoral Researcher will:

- Research solutions to problems identified by industry partners in the application of MT in their translation pipelines. This may include, but is not limited to, the following:
  - domain adaptation in MT,
  - the utility of synthetic data in MT models,
  - online/offline iterative retraining,
  - MT and post-editing,
  - MT integration with Translation Memory systems,
  - integration of terminology in MT models,
  - hybrid MT systems,
  - multimodal MT,
  - dialogue MT,
  - cross-lingual search.
- Produce top-quality journal and conference publications, in collaboration with the PI, and, where appropriate, industry partners.
- Identify and write proposals for research funding.

- Participate in ADAPT Centre activities, such as industry showcases and annual reviews.
- Provide support and advice to any PhD students working on the same project.
- Contribute to 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 at DCU.

## **Minimum Criteria**

It is essential that applicants have a PhD in Machine Translation or a related discipline. In addition, it is desirable that the candidate has:

- Demonstrable experience in the translation and/or localisation industry.
- A strong background in statistical machine translation and translation technology, with a particular emphasis on neural models of MT
- Excellent machine-learning skills.
- Excellent programming skills.
- Excellent research skills, with experience, ideally, in the following:
  - NMT system-building and deployment expertise,
  - a wide knowledge of automatic and human MT evaluation metrics,
  - up-to-date knowledge of the main areas of application for NMT in industry and academia,
  - cloud-based models of translation.

**Salary:** €36,854 - €47,728

Appointment will be commensurate with qualifications and experience.

**Closing date:** Tuesday 3<sup>rd</sup> April, 2018

**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 and in collaboration with industry partners.

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

**Communicating Research** – Demonstrates the ability to communicate their research with their peers, with industry partners, and with 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 and to meet industry partner expectations regarding project turn-around times.

**Application Procedure**

**Informal Queries to:** Prof. Andy Way [Andy.Way@adaptcentre.ie](mailto:Andy.Way@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> 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 816: Post-Doctoral Researcher in Statistical Machine Translation (Spokes)**

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 9. Human Resources Department, Dublin City University, Dublin 9. Tel: +353 1 700 5149; Fax: +353 1 700 5500 Email: [hr.applications@dcu.ie](mailto:hr.applications@dcu.ie)

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