



Research Centre

ADAPT Centre, Centre for Digital Content Platform Research

Post title

Post-Doctoral Researcher in Neural Machine Translation (Platform) – Two Posts

Level on Framework

Level 1

Post duration

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

The ADAPT Centre for digital content platform technology seeks to appoint two (or more) postdoctoral researchers in Neural Machine Translation (NMT) on the platform research programme which addresses core research areas in the area of Statistical Machine Translation.

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 the post-doctoral researcher will be fundamental in discovering ADAPT research breakthroughs in SMT as identified in the research plan agreed with SFI.

Reporting to his/her Principal Investigator the Postdoctoral Researcher will:

- Research solutions to problems in a number of areas of interest, including:
 - integrating syntax and semantics into NMT,
 - dialogue MT,
 - multimodal MT,
 - the utility of synthetic data in MT models,
 - domain adaptation of existing models to new application areas,
 - cloud-based models of MT.
- Produce top-quality journal and conference publications, in collaboration with the Principal Investigator (PI).
- Identify and write proposals for research funding.
- Participate in ADAPT Centre activities, such as industry showcases and annual reviews.
- Provide support and advice to PhD students working on similar topics.
- 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 PI.

- Engage in appropriate training and development opportunities as required by the PI, 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 a subset of the following skills:

- A strong background in MT and translation technology, with a particular emphasis on neural models of MT
- Excellent machine-learning skills.
- Thorough familiarity with a range of linguistic formalisms.
- 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 research areas in NMT, and
 - cloud-based models of translation.

Note that demonstrable experience in the translation and/or localisation industry would be advantageous, as the successful applicant will be expected to spend approximately 20% of their time on the ADAPT Spokes programme on applied research topics of interest to our industry partners.

Salary: *€36,854 - €47,728

*Appointment will be commensurate with qualifications and experience.

Closing date: 3rd 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.

Informal Queries to: Prof. Andy Way 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 Procedure

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 #817: Post-Doctoral Researcher in Neural Machine Translation (Platform)

Applications should be submitted by email to 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

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