Research Centre  
ADAPT Centre for Digital Content Technology

Post title  
Research Fellow in Machine Translation

Level on Framework  
Level 2

Post duration  
Up to 48 Months

As part of this role the researchers 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 for digital content platform technology seeks to appoint two (or more) research fellows in Statistical Machine Translation (SMT) on the platform research programme which addresses core research areas in the area of Statistical Machine Translation. It is envisaged that this post will commence in October 2015. Please note additional positions may be available subject to available funding.

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 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 €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 Postdoctoral researchers, PhD students and Software Developers. The work of the Research Fellow 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 Research Fellow will:

- Conduct a specified programme of research under the supervision and direction of the Principal Investigator (PI).
- Support the PI and research group in the design, development and implementation of the research programme.
- Substantially contribute to the identification of external funding sources and assist in the writing of grant proposals.
- Mentor, assist and supervise postgraduate research students and junior research staff as required.
- Assist the PI in the management / co-ordination of key aspects of the research programme (e.g. financial management, reporting, equipment management etc.).
- Engage in the dissemination of the results of the research in which he/she is engaged to the wider research community with the support 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.
- Engage in teaching and teaching support as assigned by the Head of School under the direction of the Principal Investigator.
- Engage with internal and external stakeholders including academic and industry partners/collaborators as appropriate.
- Carry out administrative work associated with the programme as necessary.
- Participate in ADAPT Centre activities, such as industry showcases and annual reviews.
- Report on progress at meetings and in writing to ADAPT Centre Management.
- Research solutions to problems in a number of areas of interest, including:
  - integrating syntax and semantics into SMT,
  - discourse-based MT,
  - domain adaptation of existing models to new application areas,
  - cloud-based models of SMT.
- Produce top-quality journal and conference publications, in collaboration with the Principal Investigator (PI).

**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 Machine Learning or a related discipline. Applicants should have a minimum of 4 years relevant postdoctoral research experience or equivalent at Level 1 of the Research Career Framework. Previous experience at the level of Research Fellow (or equivalent) is preferred. In addition, it is desirable that the candidate has a subset of the following skills:

- A strong background in SMT and translation technology, with a particular emphasis on Moses-based SMT models
- Excellent machine-learning skills.
- Thorough familiarity with a range of linguistic formalisms.
- Excellent programming skills.
- Excellent research skills, with experience, ideally, in the following:
  - SMT system-building and deployment expertise,
  - A wide knowledge of automatic and human MT evaluation metrics,
  - Up-to-date knowledge of the main research areas using SMT, 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. Demonstrable engagement in problems related to users would also be beneficial.

Salary: €51,716 - €56,442
Appointment will be commensurate with qualifications and experience.

Closing date: Friday 28th August 2015.

Candidates will be assessed on the following competencies:

**Discipline knowledge and Research skills** – Demonstrates the ability to design and implement part of a programme of research (for example by using critical thinking and the application of relevant research methodologies).

**Understanding the Research Environment** – Demonstrates a thorough understanding of the research environment both nationally and internationally and the ability to contribute substantially to grant applications.

**Communicating Research** – Demonstrates the ability to communicate their research effectively to the research community and wider society (for example by publishing their research in high quality peer reviewed journals) and the ability to teach and tutor students.

**Managing & Leadership skills** - Successfully manages research projects including the management and supervision of postgraduates and/or junior research staff.
Application Procedure

Informal Queries to: Aoife Brady Aoife.brady@adaptcentre.ie. Please include the ADAPT Position Title in all email communications.

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 169 Research Fellow in Machine Translation

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: Insert hr.applications@dcu.ie

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