



Research Centre

ADAPT Centre for Digital Content Technology

Post title

Research Fellow in Natural Language Processing

Level on Framework

Level II

Post duration

Fixed Term Contract up to 24 months

Background & Role

The ADAPT Centre for digital content platform technology seeks to appoint a research fellow in Natural Language Processing (NLP) on the platform research programme which addresses a wide spectrum of NLP research areas. It is envisaged that this post will commence in September 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 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.

Research Career Framework

As part of this role the researcher will be required to participate in the DCU Research Career Framework <http://www.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.

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 in the broad area of sentence representation learning and domain adaptation as identified in the research plan agreed with SFI. The successful candidate will be affiliated with SFI ADAPT project in Theme A Understanding Global Content. Working within a large group of postdoctoral researchers, PhD students and software developers, he/she is expected to combine both applied research and platform research.

Reporting to his/her Principal Investigator the Research Fellow will:

- Design and coordinate natural language processing experiments involving representation learning
- Design and coordinate domain adaptation experiments involving representation learning and intelligent instance selection
- Implement experiments making efficient use of available high performance computing infrastructure
- Provide support and advice to PhD students in the same project, as well as to others working in the centre..
- Contribute to undergraduate and postgraduate teaching and supervision in the School of Computing
- Identify and write proposals for research funding.
- Produce top-quality journal and conference publications in collaboration with the Principal Investigator
- Participate in ADAPT centre activities, such as industry showcases, annual reviews and industry targeted projects.
- Report on progress at meetings and in writing to ADAPT centre management.
- 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 by the Science Foundation Ireland (SFI) ADAPT Research Centre project (Theme A).

Minimum Criteria

It is essential that applicants have a PhD in Computational Linguistics, 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. Applicants must have

- Excellent programming skills
- Excellent research skills, with extensive experience and deep understanding of machine learning approaches to Natural Language Processing

It is desirable that applications further have:

- A strong background in representation learning, domain adaptation, language proofing, sequence labelling and text normalisation
- Experience with high-end computing systems
- A good understanding of computer architecture and factors affecting parallel processing of data
- Excellent machine learning skills
- Familiarity with a range of linguistic formalisms
- Excellent presentation and communication skills
- Excellent team-working skills

A demonstrable experience in the language technology 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 applied research would also be beneficial.

Salary: *€53,243 - €58,016

*Appointment will be commensurate with qualifications and experience, and will be made on the appropriate point of the salary scales, in line with current Government pay policy.

Closing date: 14th June 2018

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.

Informal Queries to: Clíodhna Horan cliodhna.horan@adaptcentre.ie

Please include the ADAPT Position Title in all email communications.

Please do not send applications to this e-mail address; instead apply as described below.

Application Procedure

Application forms are available from the DCU Current Vacancies (open Competitions) website at <https://www.dcu.ie/hr/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 900 Research Fellow in Natural Language Processing

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. Tel: +353 1 700 5149; Fax: +353 1 700 5500 Email: hr.applications@dcu.ie

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