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| Research Centre | CNGL Abu-MaTran: Automatic Building of Machine Translation |
| Post Title | PostDoctoral Researcher |
| Post Duration | 24 month contract |

Overview

The machine translation group at Dublin City University (DCU) is an internationally recognised group in this area of research, in which it has been active during the last two decades. The group is part of CNGL, a €50M Academia-Industry partnership, funded jointly by Science Foundation Ireland (SFI) and Industry. DCU is ranked in the top 50 of young universities worldwide (under 50 years old) (QS ranking) and in the top 100 under the Times Higher Education (under 50 years) ranking scheme. Abu-MaTran (Automatic Building of Machine Translation) is an Industry-Academia Partnerships and Pathways (IAPP) - Marie Curie Actions FP7 project in which the group is currently involved. The project aims at increasing the hitherto low industrial adoption of machine translation by identifying crucial cutting-edge research techniques and preparing them to be suitable for commercial exploitation. Besides DCU as project coordinator, the project involves a company (Prompsit Language Engineering) and three research institutions (Universitat d'Alacant, University of Zagreb and Institute for Language and Speech Processing).

The position involves research, development and participation in outreach activities to achieve the goals of the Abu-MaTran project as well as collaboration with all researchers in the project.

Main Duties and Responsibilities

- Investigate, in collaboration with the partners, techniques for hybrid MT (pivot, linguistically-augmented SMT, etc)
- Be in charge of the MT systems developed in the project (training, deployment, evaluation, etc.)
- Implement a software management policy in the research group.
- Release the output as free/open-source tools with appropriate interfaces to use them.
- Write the appropriate documentation for each of the work lines: technical documentation, academic-oriented (papers, posters, etc.) publications, and tutorials or manuals
- Attend project-related conferences and meetings
- Present the results at relevant conferences and scientific meetings

- Review work plan with the collaborators according to project intermediate milestones and results
- Get involved and give support to outreach activities

Person Specification

The committee in charge of the recruitment process will use a range of selection methods to measure candidates' abilities in these areas including reviewing your application, seeking references, inviting shortlisted candidates to be interviewed, and other forms of assessment action relevant to the post.

Applicants should provide evidence in their applications that they meet the following criteria:

Qualifications (compulsory): PhD in Computer Science and less than 10 years of full-time research experience.

International procedure (compulsory): the candidate cannot have worked or lived for more than 12 months within the last 3 years in the Republic of Ireland.

Experience in:

- Natural language processing, particularly in machine translation (compulsory).
- Developer-level experience in SMT (compulsory) and RBMT (desirable)
- Machine learning (compulsory)
- MT evaluation (desirable)
- Creation of user interfaces and software releasing/sharing (desirable)

Programming languages: Python and perl (compulsory). JAVA or C++ (desirable).

Multilingual skills: Good level of English (compulsory). Knowledge of the South Slavic Languages targeted in the project use case -- Croatian, Bosnian, Serbian, Montenegrin and Slovenian (desirable).

Good writing and communication skills: ability to intercommunicate with people and to communicate results, ideas, etc. (compulsory).

Collaborative working skills: ability to take and delegate responsibilities (compulsory).

Experience in free/open-source software development: participation in free/open-source software development projects as user or, better, as contributor (desirable).

Experience in transfer of knowledge between the industry and the academy: interaction between industry and academy in previous positions is highly valued (desirable)

Creativity and flexibility skills: ability to be open to different ideas or opinions, to analyse and solve problems and to make decisions (compulsory).

Further Information

This post is fixed-term and full-time at DCU (Dublin, Ireland). The starting date is January 2014 and duration is 24 months.

The stipulated gross salary will be €48,766 per year, corresponding to living allowance, and an additionally €700/€1,000 per month for mobility allowance (depending on family situation).

Further information on the project can be found on its website, www.abumatran.eu

For informal enquiries about the post please contact Dr Antonio Toral: atoral at computing.dcu.ie

Closing date:

4th October 2013.

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](tel:+353(0)17005149).

Applications should be submitted by email to hr.applications@dcu.ie or by Fax: [+353 \(0\)1 7005500](tel:+353(0)17005500) or by post to the Human Resources Department, Dublin City University, Dublin 9.

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