

**Research Centre**

ADAPT Centre for Digital Content Technology at DCU (Affiliate Project)

**Post title**

Post-Doctoral Researcher on the [exploreAT!](#) project

**Level on Framework**

Level 1

**Post duration**

Fixed Term Contract up to 13 months

**Research Career Framework**

As part of this role the researchers 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.

**Background & Role**

The [exploreAT!](#) Project, sponsored by the Austrian Academy of Sciences (OeAW), Austrian Centre for Digital Humanities ([ACDH](#)) and the ADAPT Centre at Dublin City University, is seeking a postdoctoral researcher for a two-year fixed-term contract to support the semantic publication and interlinking of a large corpus of German language resources in cultural context.

This project aims to reveal unique insights into the rich texture of the German Language, especially in Austria, by providing state of the art tools for exploring the unique collection (1911-1998) of the Bavarian Dialects in the region of the Austro-Hungarian Empire. This corpus is large and rich, estimated to contain 200,000 headwords in estimated 4 Million records. The collection includes a five-volume dictionary of about 50,000 headwords, covering a period from the beginning of German language until the present ([DBÖ](#), [WBÖ](#)).

In order to create enduring value from this resource, the project will apply open science and citizen science techniques to improve access and to leverage the crowd's wisdom. The

engagement of users with the system will be the subject for mind-brain studies, and the results and records will be enriched and interlinked using the best practices of semantic content publishing of Linked Open Data on the Web of Data.

### **The key tasks are to:**

- Explore Austrian culture within a Pan-European and international setting, concerning both concepts of rural life of the multicultural Habsburg Empire, as well as supplementing historical and sociological inquiry with an understanding of the role and implementation of Lexicography over time.
- Discover challenges and chances of a transformation process from a traditional lexicography project to an open cultural knowledge base and the role of lexicographic knowledge, especially with respect to automatic and semi-automatic techniques for publishing the results as five-star linked data.
- Invite researchers, professionals, academics and amateurs, to participate, share and grow in the framework of up to date collaborative lexicography.
- Create an open multilingual infrastructure for all to explore the world described by the corpus as documented in languages.
- Reflect best practice for publishing multi-lingual linked open data, connecting the lexical, temporal, geographical and historical features of the corpus with the global and European knowledge web.

### **Principal Duties and Responsibilities**

The successful candidate will work with a multinational, multidisciplinary team of Researchers on the [exploreAT!](#) Project. The work of this Postdoctoral researcher will focus on the publication of German lexicographic data in a high-quality, responsive, linked data format, with appropriate interlinks. The semantic data will also form the basis for citizen science, crowdsourcing and other applications.

Reporting to the Project Collaborator, the Postdoctoral Researcher will be responsible for:

- The research and implementation of technical solutions to the project goals, including the publication of the Bavarian Dialects dataset.
- Produce top-quality journal and conference publications, in collaboration with other project members.
- Identify and write proposals for additional research funding.
- Participate in project activities, such as meetings, reviews, demonstrations and other events.
- Provide support and advice to collaborators and partners working on the same project.

- Contribute to teaching and supervision in the School of Computing.
- Report on progress at meetings and in writing to Project 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 Project Collaborator.
- Engage in appropriate training and development opportunities as required by the Project, 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**

This project is funded under the OeAW Digital Humanities: Langzeitprojekte Zum Kulturellen Erbe.

### **Minimum Criteria**

- Applicants should have a PhD in in Computer Science, Digital Humanities or a related discipline.

In addition, it is desirable that a candidate has skills in:

- Demonstrated experience in the Semantic Web, Linked Data or eLexicography field
- Excellent knowledge engineering skills
- Excellent programming skills
  - Python and Java
- Excellent research skills with experience, ideally in one or more of:
  - Linked Data RDF, OWL and other Semantic Web Technologies
  - Ontology and vocabulary selection and implementation
  - Scaling and Evaluating Data Management Solutions
  - eLexicography

Language skills in German would also be useful.

**Salary:** \*€36,488 - €47,255

\*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:** 14<sup>th</sup> December 2017

**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:** Cliodhna Horan [cliodhna.horan@adaptcentre.ie](mailto:cliodhna.horan@adaptcentre.ie)

*Please include the ADAPT Position Title & Job Reference 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://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 #720 Post-Doctoral Researcher on the exploreAT! project**

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: Insert [hr.applications@dcu.ie](mailto:hr.applications@dcu.ie)

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