



Applications are invited from suitably qualified candidates for the following position

Post Title: **Research Assistant**

Research Centre: **ADAPT SFI Centre for Digital Media Technology**

Length of contract **FTC Up to 6 months**

Overview

Dublin City University (www.dcu.ie) is a research-intensive, globally-engaged, dynamic institution that is distinguished by both the quality and impact of its graduates and its focus on the translation of knowledge into societal and economic benefit. DCU prepares its students well for success in life, and in the workplace, by providing a high-quality, rounded education appropriate to the challenges and opportunities of the 21st century. As Ireland's University of Enterprise and Transformation, DCU is characterised by a focus on innovation and entrepreneurship and a track-record of effective engagement with the enterprise sector, including commercial, social and cultural enterprises. Excellence in its education and research activities has led to DCU's consistent position in the rankings of the world's top young universities.

The ChiA project is a collaborative project with between the Adapt Centre, DCU and the Austrian Academy of Sciences - Austrian Centre for Digital Humanities and Cultural Heritage (ACDH-CH) and Europeana local-Austria. ChIA focuses on supporting research that integrates semantic annotation, data quality assessment and use of Linked Open Data (LOD) for building interactive AI system (Chatbot) in the context of Europeana digital image collections.

The Project and Role

The project aims at enhancing the access and evaluation of cultural images by testing semantic tools and AI techniques on food related image collections on the Europeana platform. The project involves:

- Semantic annotation of cultural images (food related images)
- Linked Open Data (LOD) quality assessment
- Preparation of data for Computer vision
- Participation in AI system (Chatbot) development and
- Natural language processing

ChiA (accessing and studying cultural images with new technologies) project, seeks a research assistant to support the development of ChiA System for cultural image enrichment using ontologies and semantic annotation tools. This project presents the successful candidate with the opportunity to work in an exciting collaborative project with the application of new technologies. The team aspires the implementation of proposed methods and AI systems as a proof of concept for addressing real world problems in the Digital Humanities domain. The role will also include taking a self-directed leadership role in the project and interacting with other researchers in ADAPT and ACDH-CH.

Principle Duties and Responsibilities

Please refer to the job description for a full list of duties and responsibilities associated with this role.

Qualifications, Skills and Experience Required:

Candidate will hold a minimum of a bachelor's degree in computer science or related discipline and knowledge of Semantic Web Technologies (RDF/OWL, Ontology, Linked Open Data, Semantic Annotation, Triple stores such as Jena Fuseki or Virtuoso or relational database management systems (MySQL, Oracle, etc). Also, image annotation and computer vision related tools and programming languages (Java or Python) are desirable.

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

- Knowledge of semantic web technologies and semantic annotation tools
- Excellent written and oral proficiency in English (essential) and knowledge of German language is advantageous.
- Strong problem solving abilities.

Mandatory Training

The post holder will be required to undertake the following mandatory compliance training: Orientation, Health and Safety and Intellectual Property and Data Protection training. Other training may need to be undertaken when required.

Salary Scale: (Research Assistant) Point 1 – Point 9 (€22,496 - €28,673)

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

Closing date: 8th December 2020

Informal enquiries to: Dr Yalemisew Abgaz, School of Computing, Dublin City University.

Email: Yalemisewm.abgaz@dcu.ie, Phone: +353863207535

Application Procedure:

Application forms are available from the DCU Current Vacancies (external applicants) website at <http://www.dcu.ie/vacancies/current.shtml>

Applications should be submitted by e-mail with your completed application form to hr.applications@dcu.ie

Please clearly state the role that you are applying for in your application and email subject line:

Job Ref#RF1408a Research Assistant ChiA

Dublin City University is an equal opportunities employer and is committed to promoting gender equality reflected in its attainment of the Athena SWAN Bronze Award. Information on a range of university policies aimed at creating a supportive and flexible work environment are available at www4.dcu.ie/policies/policy-starter-packs.shtml.