

ADAPT Undergraduate Internship Programme 2018

PROJECT DESCRIPTION

Institution/Team:	DCU, Adapt	
Project Title:	A semantic web portal for exploring historical linked open data	
Suitable for students who are studying in the following areas:	Semantic Web development, Linked Open Data, Ontology	
Skills needed:	Core skills: a working knowledge of web development using Python, HTML5, CSS, JSON, and JavaScript. knowledge of semantic technologies and tools (RDF, OWL, SPARQL) is preferable	
Project Description:	<p>ExploreAt! Project is aiming at building a semantic infrastructure to expose historical, cultural and lexical resources using a Linked Open Data platform. Some of the tasks to accomplish the objective are 1) to convert the existing relational data into semantically annotated linked data and 2) to deliver the data to the users using a semantic web portal. The output of the first tasks will be used as a base for the second task and at its current state both the semantic data and the APIs are readily available.</p> <p>This internship involves building web pages that will allow users to explore this data and browse the semantic links to discover new information. A successful candidate will build webpages for presenting data related to Questionnaires, Questions and the associated Answers. The web pages will also have links to ontologies and other repositories such as DBpedia.</p>	
The Role of the student & benefits gained from participation in this project:¹	This project will introduce the candidate to state-of-the-art semantic web tools and techniques including the development of semantic web pages, publishing Linked Open Data and utilising ontologies. It will further introduce the student with existing Linked Open Data repositories and their effective utilization. The internship will further enable the student to gain software development and report writing skills.	
Who will be working with you?	The student will work closely with a postdoctoral researcher (Yalemisew Abgaz) in the ExploreAt! Project and participate in meetings during his/her time.	
Short description of the group:	ExploreAt! is a collaborative project between Austrian Academy of Sciences, University of Salamanca and Adapt Centre, DCU. The team in DCU includes Professor Andy Way and Doctor Yalemisew Abgaz. Under the general ExploreAt! project, we are responsible for providing semantic infrastructure to explore historical, cultural and lexicographic data of Bavarian Dialects.	
Recommended Reading Material:	https://dvcs.w3.org/hg/gld/raw-file/cb6dde2928e7/bp/index.html https://www.w3schools.com/bootstrap/default.asp https://www.w3schools.com/html/default.asp	
Other information:		
For further details on this project please contact:	Name: Phone: E-Mail: Website:	Yalemisew Abgaz 017006718 Yalemisew.abgaz@adaptcentre.ie https://exploreat.usal.es

¹ This is an initial description of the role of the student and it is liable to change following discussions between the investigators and the student.