Institution/Team:
Trinity College Dublin, ADAPT Centre, Theme E (Managing the Global Conversation)

Project Title:
Design of a Linked Data Interlinking Tool for the Library Domain.

Suitable for students who are studying in the following areas:
Computer Science, Web Development

Skills needed:
A strong set of general Web Development skills is needed for this internship such as:
HTML
CSS
Programming skills (Java)
JavaScript

Project Description:
The intern will be involved in the further design and development of a graphical user-interface (GUI) for NAISC – the Novel Authoritative Interlinking of Schema and Concepts. NAISC is a Linked Data interlinking approach which has been designed specifically for the library domain. The aim of NAISC is to make Linked Data interlinking more accessible to non-technical experts, specifically Information Professionals such as librarians, archivists and metadata cataloguers. This is being achieved by meeting a set of requirements distilled from data gathered from the library domain. These requirements include reducing the need to understand Linked Data technicalities, guiding Information Professionals through the process of Interlinking, and providing provenance data for the Interlinks created.

The role of the student & benefits gained from participation in this project:
The role of the intern will be to further develop the NAISC graphical user-interface (GUI) based on the requirements distilled from recently gathered user-testing data. See below for screenshots of the current GUI.

This project will provide the student with an opportunity to learn about:
- User Interface and User Interaction Design
- Information Architecture
- Linked Data (RDF, Graphs, Ontologies)
- Library and Information Science
Who will be working with you?

The intern will be working closely with PhD student, Lucy McKenna, as well as her supervisors Dr. Christophe Debruyne and Prof. Declan O’Sullivan.

Short description of the group:

The work will be conducted as part of the ADAPT Theme E consisting of experts in Linked Data, data ethics, data protection and data management.

Recommended reading material:

1. W3C Semantic Web - [https://www.w3.org/standards/semanticweb/](https://www.w3.org/standards/semanticweb/)
4. NAISC Demo - [https://www.scss.tcd.ie/~mckennl3/naisc/](https://www.scss.tcd.ie/~mckennl3/naisc/)

For further details on this project please contact:

Lucy McKenna – Email: lucy.mckenna@adaptcentre.ie

Additional Information:

Current NAISC GUI
RDF Graph output from NAISC