

CNGL Undergraduate Students as Researchers Programme 2011 PROJECT DESCRIPTION

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| Institution/Track: | Located in Dublin City University (DCM-3) | |
| Project Title: | Developing a mobile search demonstrator for CNGL | |
| Suitable for students who are studying in the following areas: | Suitable for students who are studying computer science with an interest in search technologies, information retrieval or document processing in general, and human-computer interaction or user interface design. | |
| Skills needed: | <p>Good programming skills in general with an object-orientated language such as Java.</p> <p>Experience of programming applications for mobile devices desirable.</p> <p>Knowledge of web application development, including the notion of client-server architecture, web-services using Servlet/JSP, deployment and maintenance of web-service modules would also be beneficial.</p> | |
| Project Description: | <p>Project Context: Applications on mobile devices are becoming increasingly important. The CNGL has developed a number of desktop demonstration systems for search technologies. This project will extend our current demonstrators to operate on mobile devices such as SmartPhones and pad computers.</p> <p>Project Requirement: The intern will work with CNGL research to extend current CNGL information retrieval demonstrators to operate on mobile devices. This will involve addressing the needs of mobile devices, such as how to summarise content for display on small mobile device interfaces and the development of a search interface for a mobile device and porting the interface to operate on the mobile device itself.</p> | |
| The Role of the student & benefits gained from participation in this project:¹ | The student will work with the CNGL information retrieval (IR) research group. Working on this project the student will learn about leading edge search engine technologies, and acquire experience with a range of programming tools and development of web applications. | |
| Who will be working with you? | The student will work closely with Dr Johannes Leveling and Dr Gareth Jones of the CNGL IR research group. | |
| Short description of the group: | We have 6 people in our group – Dr Gareth Jones (the team leader/PI), 1 post-doc, 4 PhD students | |
| Recommended Reading Material: | Introduction to Information Retrieval by Manning, Schutze and Raghavan, Designing the User Interface, Shneiderman and Plaisant | |
| Other information: | | |
| For further details on this project please contact: | Name: Phone: E-Mail: Website: | Gareth Jones 00 353 1 700 5559 gjones@computing.dcu.ie http://computing.dcu.ie/~gjones/ |

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.