

PhD Scholarship Opportunity

Innovative Solutions for Planning Smarter Healthcare Facilities



3S Group College of Business

Application deadline: **28th of April 2013**

Duration of award: **4 years**

Award type: **PhD**

3S Group is seeking to appoint high-quality PhD student to begin his/her PhD Scholarship in June/July 2013. This studentship is funded by College of Business at Dublin Institute of Technology.

Overview

3S Group is an interdisciplinary research group with a wide range of operations research expertise such as; system analysis, business process optimisation, and modelling and simulation. The group focuses on the applications of healthcare management at operational and strategic level. This interdisciplinary project involves a comprehensive investigation of the challenges/risks that confront healthcare managers and planners to effectively make informed decisions in such volatile ever-changing healthcare environment. Long waiting lists, overcrowding, and patients' dissatisfaction are common symptoms of healthcare systems world-wide. Therefore, policy makers and healthcare managers are currently under constant pressure to control rapidly escalating expenses meanwhile they have to fulfil the growing demand for care and satisfactory medical service. The aim of this research is to provide the decision makers with an integrated framework which form the basis of a predictive planning and smart management of healthcare facilities. The effect of relationships, particularly between physical layout and distribution of services and facilities within a building and staffing requirements are to be considered in order to derive optimum layouts and inter-relationships between departments. The project is supported by an elite network of experts from leading academic institutions, research labs and partner organisations that 3S Group established through their close collaboration and co-innovation with their partners in Ireland and globally.

Funding and Eligibility

This project requires an enthusiastic candidate with interests in management, engineering and statistics. We welcome applications from suitable qualified students from across the world. The full award is open to Ireland, EU and overseas students and covers the fees and a tax-free maintenance grant.

The candidates to apply for this position should:

1. **hold at a *minimum* a bachelor degree, a First or Upper-second** class honours degree in management, engineering, computer science or a related discipline
2. be fluent in English. For students whose first language is not English there is a minimum requirement of an IELTS score of at least 6.5 in each component of the test or for a TOEFL score of at least 80.
3. be strongly committed to, and potentially capable of, high-quality academic *research* in an area that is consistent with the research expertise of 3s Group members.
4. have experiences in programming languages (e.g. Java, Python, and Matlab) and simulation / optimisation tools.

This is a unique opportunity to join a leading research group with a strong track record for the invention, development and utilisation of decision support systems.

How to apply

Informal enquiries can be made to either Dr. Amr Arisha (amr.arisha@dit.ie) or Ms. Sara Galletti (sara.galletti@dit.ie), Applications (PRG1 Form) should include a covering letter, detailed CV, and copy of the academic certificates. Applications should be can posted to:

College of Business,
Dublin Institute of Technology (DIT),
Aungier Street, Dublin2, Ireland

Or alternatively, emailed to: sara.galletti@dit.ie