

**Strathclyde Doctoral Training Centre in
Digital Health Implementation & Analytics
PhD Project Title: **mHealth & Health Analytics Intervention
to support Patients with Advanced Chronic Kidney Disease****

Project Supervisors:

Dr Matt-Mouley Bouamrane, Lecturer in eHealth, University of Strathclyde,

Prof. Alec Morton, Management Science, University of Strathclyde,

Dr David Kingsmore, Queen Elizabeth University Hospital, NHS Greater Glasgow
and Clyde

1. Strathclyde Doctoral Training Centre in Digital Health Implementation & Analytics

The University of Strathclyde is launching in 2018 – along with key strategic partners – a Doctoral Training Centre (DTC) in Digital Health Implementation and Analytics.

The DTC external partners currently include the Scottish Government Technology Enabled Care Programme, the Digital Health and Care Institute (DHI) and the Queen Elizabeth University Hospital (QEUI).

The 'Digital Health Implementation & Analytics' DTC is a multi-disciplinary postgraduate training centre of excellence in the development, implementation and integration of innovative digital and data science technologies in health and social care.

The DTC is led by the University of Strathclyde Department of Computer and Information Sciences (Digital Health & Data Analytics) and University partners include the Department of Mathematics and Statistics, the Strathclyde Institute of Pharmacy and Biomedical Sciences and the Strathclyde Business School.

- **The DTC will provide multi-disciplinary supervision, with the PhD supervisors including academics from 2 different departments within the University as well as an external partner from the partnering organisation.**
- **Each PhD student will undertake an individualised training programme designed to suit his particular training needs; both for the completion of the PhD project as well as to provide long-term transferable skills.**
- **The PhD scholarships are for 3.5 years (42 months) and cover tuition fees and stipend and also include a generous research and conference travel budget.**

2. PhD Scope & Aims

This interdisciplinary PhD project will be conducted as a collaboration between the Data Science & Analytics (DASSI) research group at Strathclyde, the Business school (Management Science) and the Queen Elizabeth University Hospital renal service unit.

This project aims to conduct original research and development activities in order to:

- **Optimise and test mobile health technologies to support patients with advanced chronic kidney disease (ACKD)**
- **Conduct a pilot study of the mHealth ACKD solution(s)**
- **Conduct iterative development and improvement of the mHealth ACKD solution(s)**
- **Develop with NHS partners an implementation & deployment strategy for the mHealth ACKD solution(s)**
- **Conduct data analytics on the ACKD patient registry in order to identify means of optimising ACKD patient pathways and care quality**
- **Synthesise the above body of work into a coherent research report (i.e PhD thesis) suitable for the award of a Doctoral Degree in Computer Science**

3. Person Specification

We are looking for a candidate with exceptional academic qualifications and strong computing / numeric / quantitative skills.

The candidate must be committed to acquiring a research & industrial training that will allow her/him to become a future leader in Computer or Data Science, Health Analytics or Decision Analytics.

Knowledge of - and experience in - medical statistics and healthcare related research will be additional assets as will the willingness and flexibility to work in close collaboration with health professionals. The candidate will be based at the University of Strathclyde, with the expectation that he / she will spend a substantial proportion of their research time at the Queen Elizabeth Hospital in Glasgow.

Applications are welcomed from outstanding graduates who:

1. hold at a bachelor degree (a First or Upper-second or equivalent) and preferably a Master degree in a relevant area (Computer Science, Mathematics and / or Statistics, Health Informatics, Operational Research or a related numeric discipline)
2. Are fluent in English, both spoken and written.
3. Are strongly committed to, and potentially capable of, high-quality academic research in the area of Digital Health, healthcare & decision analytics.

4. Are in a position to start the programme between October 2018 and January 2019 at the latest.

Experiences in mobile health development, health analytics or statistics are desirable

Additional requirements:

Prior experience in research is desirable but not essential

4. Application Procedure

Candidates interested in applying for this PhD scholarship should send a CV and cover letter outlining their key areas of expertise and experience and highlight why they believe they would be a suitable candidate for the position.

Suitable candidates will be contacted directly to arrange an interview with the Supervisory panel (Bouamrane, Morton, Kingsmore)

Application should be sent by email to:

mattmouley.bouamrane@strath.ac.uk