

Candidate Information

Position:	Research Fellow Data Analytics
School/Department:	Mathematics and Physics
Reference:	19/107954
Closing Date:	Friday 3 January 2020
Salary:	£33,797 to £40,322 per annum
Anticipated Interview Date:	Friday 17 January 2020
Duration:	3 Years

JOB PURPOSE:

To conduct research into Statistical Data Analytics which will focus and implement the research primarily in the field of healthcare 4.0 and health analytics, developing a strong research profile in Data Analytics and play a role in building the capability in Data Analytics in the Mathematical Sciences Research Centre and more broadly across the University.

MAJOR DUTIES:

1. To undertake research in Statistical Data Analytics that is of international quality in terms of originality, significance and rigour with an emphasis on implementation in healthcare 4.0 and health analytics.
2. Analysis: research and development of analytics solutions, data exploration, statistical modelling and testing.
3. Data sourcing and data management; data audit, ethics requests, data specification, data requests, data cleaning, matching, data warehousing and data protection.
4. Implementation using: R, Shiny, Python and/or other appropriate software.
5. Dissemination of research through the preparation and publication of research papers and giving talks / conference presentations.
6. Contribute to background research and preparation of grant funding applications.
7. Collaboration and development of a strong engagement with healthcare providers and data custodians.
8. Carry out routine administrative duties as requested, e.g. arranging research group meetings, maintaining research group website.
9. Contribute to the delivery of the MSc Data Analytics through the provision of lab classes, marking and supervision of student placement projects.
10. Where feasible, to engage in knowledge transfer and innovation activity and to demonstrate tangible research impact.

Planning and Organising:

1. Organise own day to day research activities, meetings, dissemination and classes.
2. Ensure regular reporting and meeting with Professor Adele Marshall.
3. Be able to work using agile practises.

Resource Management Responsibilities:

1. Provide guidance as required to Healthcare Data Analytics PhD students and MSc Data Analytics students.

Internal and External Relationships:

1. Liaise with QUB colleagues and support staff on routine matters.
2. Make internal and external contacts to develop knowledge and understanding and form relationships for future collaboration.
3. Work closely with external data providers both locally and internationally.
4. Attend and contribute to relevant meetings.

ESSENTIAL CRITERIA:

1. Hold or be about to obtain a PhD in, Statistics or Data Analytics or closely related discipline.

2. At least 3 years relevant research experience.
3. Experience of conducting research in the field of data analytics or contributing research as part of a large data analytics project.
4. Experience using Data Analytics and Statistical packages and programming languages such as R, or Python.
5. Record of publication of internationally excellent research outputs in Data Analytics (commensurate with career stage).
6. Evidence of giving research presentations.
7. Ability to interact with research colleagues and support staff.
8. Ability to analyse and communicate effectively.
9. Ability to communicate and present research to a broad audience both from the Data Analytics research area and within public sector organisations such as healthcare providers, and to industry.
10. Ability to communicate complex information effectively.
11. Ability to communicate effectively in English, both orally and in writing.

DESIRABLE CRITERIA:

1. Membership of learned societies such as RSS and/or IEEE.
2. Data Analytics research experience applied to healthcare 4.0.
3. Experience assisting in the delivery of taught modules in Data Analytics at Masters Level.
4. Experience supervising project students.
5. Experience in writing grant applications and securing research funding.
6. Evidence of conference presentations of research at International conferences.