Candidate Information

Position:	Academic positions in Data Analytics
School/Department:	School of Mathematics and Physics
Reference:	19/107325
Closing Date:	Monday 29 April 2019
Salary:	Lecturer £36,261 - £50,132 per annum (potential to progress to £53,175 per annum through sustained exceptional contribution) Reader £51,630 - £59,828 per annum (potential to progress to £65,361 per annum through sustained exceptional contribution)
Anticipated Interview Date:	Monday 20 and Tuesday 21 May 2019

JOB PURPOSE:

To develop and teach across a range of Data Analytics and Statistics modules at both undergraduate and postgraduate level in the School of Mathematics and Physics, making a strong contribution to the School's administration and outreach activity. To develop an ambitious research profile in Data Analytics and play a role in the future development of the Mathematical Sciences Research Centre providing a crucial input in shaping the capability in Data Analytics in the University.

Candidates at Reader level are expected to demonstrate an internationally excellent research standing and ability to lead distinctive research initiatives.

MAIN ACTIVITIES/RESPONSIBILITIES:

1. **Education (40%-60% of time spent)**
- To deliver teaching and assessment activities across a variety of Data Analytics/Statistics modules, including lectures, setting/marking coursework and delivering lab practicals to undergraduates and postgraduates.
- To supervise undergraduate and postgraduate taught students in practical and project-based work including Final Year Projects and Post Graduate placement dissertations.
- To contribute to the development of new teaching delivery methods, including but not limited to new blended learning and research-led teaching methods.
- To undertake initiatives to improve the overall student experience, by new methods of assessment, feedback, and student engagement.
- To lead major elements of programme development, including new course structures and curricula (Senior Lecturer/Reader).
- To manage major teaching administrative functions such as accreditation and quality enhancement (Senior Lecturer/Reader).

2. **Research (20%-30% of time spent)**
- To lead and undertake research in Data Analytics that is of internationally quality in terms of originality, significance and rigour. To develop and maintain an excellent international research profile, evidenced by relevant measures of esteem and peer reviews of research output quality and impact (Senior Lecturer/Reader).
- To regularly publish research in top tier international peer reviewed journals or prestigious conferences in Data Analytics or closely related fields, commensurate with career stage, leading to a REF return in Mathematical Sciences.
- Develop links both internally and externally to identify and develop research of a societal impact.
- To secure appropriate external funding through research applications and, for Senior Lecturer and Reader grades, develop and lead larger, income-generating collaborative and interdisciplinary research projects, working as part of a team.
- To engage in knowledge transfer and innovation activity and to demonstrate tangible research impact (Senior Lecturer/Reader) or potential for research impact, beyond the academic discipline (e.g. economic or societal impact).
- To attract and supervise post-graduate research students and post-doctoral researchers
- Lead an active team of high quality post-graduate research students and post-doctoral researchers. (Senior Lecturer/Reader) or demonstrate ability to engage and work with post-graduate or post-doctoral researchers (Lecturer).

3. Leadership and Administration (10%-20% of time spent)

- To actively engage with and contribute to the full range of student recruitment activities such as Open Days and taster events.
- Contribute to the School's outreach strategy by designing or delivering Community outreach programmes and developing external links, both nationally and internationally.
- To participate in relevant committees at the School, Institute, Faculty and University level.
- To carry out designated School educational and research related administrative duties including, for example, committee work, working group leadership or course administration.
- To contribute to senior management activities by taking on appropriate roles such as Director of Education, Director of Research, Director of Internationalisation, Module/Year/Programme Co-ordinator or other recognised official University roles (Senior Lecturer/Reader).
- To act as mentor or appraiser to colleagues advising on their personal development and ensuring that they are meeting the standards required (Senior Lecturer/Reader).

ESSENTIAL CRITERIA

- Hold or be about to obtain a PhD in, Statistics or Data Analytics or closely related discipline
- Evidence of sustained high quality lecturing at undergraduate or postgraduate commensurate with career stage, including project supervision, assessment and feedback experience, in one or more of the following curriculum areas:
    - Data analytics,
    - Statistics
- Experience using Data Analytics and Statistical packages and programming languages such as R, or Python
- Record of publication of internationally excellent research outputs in Data Analytics (commensurate with career stage)
- Evidence of conference presentations of research at International conferences
- Strong track record of earning research income as Principal Investigator (Senior Lecturer/Reader), or evidence of potential to secure research income (Lecturer)
- Evidence of independent contribution in research projects and outputs and potential to establish an independent research program (Lecturer)
- Ability to form and manage a sizeable research group, including a track record of post-graduate student and post-doctoral staff supervision (Senior Lecturer/Reader)
- An internationally excellent research standing and ability to lead distinctive research initiatives (Reader)
- A strong track record of leadership, demonstrated as evidence of major initiatives that significantly improved education, research or administrative processes
- A record of collaboration with and links to industry, or other activities aiming at achieving broader societal and economic impact
- Evidence of social engagement and outreach activities
- Ability to communicate complex information effectively.
- Ability to communicate effectively in English, both orally and in writing

DESIRABLE CRITERIA

- Membership or Senior Membership of learned societies such as RSS and/or IEEE
- PGCHET or equivalent teaching qualification or membership of professional teaching body e.g. HEA
- Strong teaching evaluations or peer reviews of teaching in one or more of the following curriculum areas:
    - Data analytics,
    - Statistics
- Proven ability to provide strategic academic leadership programme development and teaching
- Successful supervision of PhD or Masters students (Lecturer)
- Plenary or invited talks at international conferences
- Evidence of scholarly activity, e.g. editorial board membership, papers reviews etc.
- Measurable societal and economic impact such as contribution to industry roadmaps and technology transfer to industry, with associated evidence