

JOB DESCRIPTION

Job Title:	Lecturer in Data Science. With specialism in one of the following: A. Network Science B. Data Analytics with Statistics C. Data Science & Data Analytics	Grade:	AC2
Department:	A. International Business and Economics B. Mathematical Sciences C. Computing & Information Systems	Date of Job Evaluation:	March 2017
Role reports to:	Head of Department		
Direct Reports	None		
Indirect Reports:	None		
Other Key contacts:	Programme Leaders, Course Leaders, Administrators		
This role profile is non-contractual and provided for guidance. It will be updated and amended from time to time in accordance with the changing needs of the University and the requirements of the job.			

PURPOSE OF ROLE:

This post is intended for those teaching/researching in the field of Data Science who wish to embark on an academic career conducting quality research and lecturing on postgraduate and undergraduate programmes. The person appointed will be expected to contribute to existing teaching and research

The role has a strong emphasis on, and support for, research and enterprise activity, including participation in projects jointly launched by other members of the Department and Faculty.

We are seeking candidates able to contribute to the work of one or more of the University's major research focuses.

All of the above will be applied to one of the following areas:

A. Network Science

Candidates are sought with an interest in investigating large-scale data sets and big data from a network perspective and applying this to the study of international business or international business communications, and potentially economic dimensions of this. The candidate will contribute to the Centre for Business Network Analysis (CBNA).

B. Data Analytics with Statistics

Candidates are sought who have expertise in Data Analytics/Statistics and a strong mathematical background who can contribute to the Statistics and Operational Research Group in the Department of Mathematical Sciences or a closely affiliated research group in the University. They will be expected to contribute to teaching across a spectrum of areas in the Mathematical Sciences and should have an interest in working with employers and enterprise. The successful candidate may be required to work collaboratively with interdisciplinary research teams across the University, providing specialist support and advice for a range of statistical and data analyses.

C. Data Science and Data Analytics

Candidates are sought with expertise in Data Science and Data Analytics in order to grow our research and contribute to teaching into techniques for the manipulation of large datasets and big data, to discover knowledge, patterns, and insights to support scientific investigation, business processes, industrial operations, etc. Specialist skills are required in computational modelling, mathematical analysis, data management and machine learning. As the IoT proliferates, the volumes of data are rapidly increasing, so there are significant research questions in faster and more effective analysis, visualisation technologies to handle Big Data in real time, new data manipulation and processing techniques and tools, which in turn lead to new research areas as emergent properties of these developments. The successful candidate may be required to work collaboratively with interdisciplinary research teams across the University, and will be a member of our Disruptive Technologies Research Group

KEY ACCOUNTABILITIES:

Team Specific:

- To deliver high quality teaching to a diverse range of students, which may involve the coordination of teams of teaching staff within a large course or degree programme and may involve working with partners at home and overseas.
- To initiate and work with other academics on specific research topics aligned to the individual's research interests.
- To initiate and work with other academics on the development of research bids.
- To work with other academics on the development of new courses and programmes in the department's discipline areas.
- To work with other academics and the administrative teams to deliver excellent student care

Generic:

Teaching and Professional Practice

To undertake teaching as determined by the Head of Department, to supervise undergraduate and postgraduate dissertations, PhD theses as required, to keep abreast of

developments within this discipline and seek continuous improvement of their professional practice.

Scholarship and Consultancy

To maintain high professional standing in their discipline and to develop further their own scholarly profile, including a programme of high quality research, disseminated primarily in refereed academic journals.

School and University Systems

To efficiently implement approved policies, guidelines and standard operating procedures in relation to their academic duties, including the maintenance of student records, course co-ordination, personal tutoring and assessment.

Student Care

To maintain an overview of the welfare, progression, examination and assessment of allocated students and providing appropriate support through Personal Tutoring. To promote employability of students and engage with relevant University initiatives.

Managing Self:

Maintain a professional presentation of self at all times through effective communication skills, good time management and caring attitude to students. Ability to work effectively and deliver under pressure.

Core Requirements:

- Commitment to key strategic priorities of the Department, Faculty/School and University and working to deliver departmental KPI targets
- Mobility within the SE London area and North/North East Kent, as the Faculty may offer continuous professional development courses at other University Campuses and/or on an in-company basis
- Adhere to and promote the University's Equality and Diversity policies and Information Security
- Ensure compliance with Health & Safety regulations
- Support and promote the University's Sustainability policies, including the Carbon Management Plan, and carry out duties in a resource efficient way, recognising the shared responsibility of minimising the university's negative environmental impacts wherever possible

Additional Requirements:

- Flexibility to work evenings and occasional weekends, to provide teaching for part-time students and cover for University Open Days and similar activities.
- Willingness to travel overseas, to support our collaborative provision at partner sites

KEY PERFORMANCE INDICATORS:

Performance Indicators will be established in consultation with the Head of Department as part of the post-holder's annual Appraisal and Professional Development Review

KEY RELATIONSHIPS (Internal & External):

Head of Department
Academic colleagues
School administrative staff
Research community in area of subject specialism
Teaching community in areas of best practice
Practitioners in subject specialism

PERSON SPECIFICATION	
Essential	Desirable
Experience - Published research and other scholarly activities in the relevant field or a related discipline, as per focus of the post - Specialist knowledge able to contribute to one or more of the University's research groups. - Experience of teaching at undergraduate and/or postgraduate level, with a focus on one or more of either (for the post with a focus on Network Science) Network Science, Quantitative Methods (for the post with a focus on Data Analytics with Statistics) Data Analytics with Statistics approached from a mathematical perspective (For the post with a focus on Data Science and Analytics) computational modelling, data management and visualisation	Experience - Securing external research funding - Managing research projects
Skills	Skills

- Well-developed interpersonal and organizational skills
- Excellent oral and written communication skills
- Well-developed IT skills
- (for the post with a focus on Network Science) Managing large datasets, knowledge of SQL, VBA, and Python or R, Social Network Analysis packages
- (for the post with a focus on Data Analytics with Statistics) programming skills, the use of relevant specialist software packages, including an advanced knowledge of SQL, VBA and Excel
- (for the post with a focus on Data Science & Analytics) Strong programming and data management skills, familiarity with a range of statistical analysis and mathematical modelling tools, including Matlab and R, and good visualisation skills.
- Advanced methodological skills

Qualifications

- Strong Honours or Masters Degree in either
- (for the post with a focus on Network Science) Economics, Business, Sociology or a discipline with a strong quantitative orientation
- Mathematics, Statistics or a data-oriented sub-discipline
- Computer Science or a data-oriented sub-discipline

PhD in

- (for the post with a focus on Network Science) Network Science, Mathematical Sociology, Communications, Business, or a related discipline
- (for the post with a focus on Data Analytics with Statistics) Data Analytics, Statistics or a closely

- N/A

Qualifications

- Postgraduate teaching qualification

related area of Mathematics • (For the post with a focus on Data Science & Analytics) Computer Science, Data Science, Computer Visualisation, Advanced Data Modelling or similar Personal attributes • We are looking for people who can help us deliver the values of the University of Greenwich	Personal attributes: • N/A
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