



**UNIVERSITY OF LEEDS**

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**University of Leeds**

**Leeds LS2 9JT**

**Switchboard: +44 (0) 113 243 1751**

**Direct line: +44 (0) 113 343 5775**

## **HUMAN RESOURCES**

**JOB REF: MAPMA1012**

**UNIVERSITY OF LEEDS**

**Faculty of Mathematics and Physical Sciences**

**School of Mathematics**

**CHAIR IN DATA ANALYTICS**

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## **JOB SUMMARY**

The School of Mathematics is seeking to appoint a Chair of Data Analytics to capitalise on the current burst of activity world-wide in the area of Data Analytics, and to build on the recent major grants awarded to Leeds by the Economic and Social Research Council and the Medical Research Council. We are particularly seeking applicants with excellent track records in the areas of Applied and/or Computational Statistics, statistical analysis of large data sets, Bayesian machine learning, modelling of complex real-world systems, or algorithms for large data sets.

The School of Mathematics at the University of Leeds is noted for the depth and breadth of its research across Statistics and Pure and Applied Mathematics, and for the impact of its research: it was ranked in the top 10 out of 53 departments of mathematics in the UK in the 2014 Research Excellence Framework (REF). The School has a strong Department of Statistics, with a large group that focuses on applied and computational statistics, both generally and in bioinformatics, and a growing group in Applied Mathematics that uses Complexity Science ideas to understand how influence is propagated in social networks.

In early 2014, the School became a founding member of the Leeds Institute for Data Analytics (LIDA, see [www.lida.leeds.ac.uk](http://www.lida.leeds.ac.uk)), which is the home of two major centres for data intensive research: the MRC Centre for Medical Bioinformatics and the ESRC Consumer Data Research Centre. The University of Leeds is investing in a purpose-built and fully-equipped facility with space for more than 250 academic staff, research personnel and external partners, to maximise benefits for collaborative research and engagement within and outside the University. LIDA will also provide a safe data room, advanced computational infrastructure, and a fully-equipped training suite. It is scheduled to open in the summer of 2015.

This new position is expressly intended to forge links between the School and LIDA, and to contribute to the research strengths and grant success, and to lead the development of innovative undergraduate and postgraduate teaching in this area. LIDA is supported by several recently appointed University Academic Fellows bridging across the disciplines, including one appointed in the School of Mathematics.

The School is undergoing a major £5m refurbishment and will, in August 2015, be transformed into a state-of-the-art research and learning facility providing a variety of new study environments, a Research Visitor Centre, modern offices and infrastructure, with a Grade II listed exterior. Staff have ready access to High Performance Computing, both through the University's ARC2 machine (3000 cores) and through the N8 Polaris facility (over 5000 cores).

The School of Mathematics supports the LMS Good Practice Scheme, and the University of Leeds's commitment to women in science has been recognised with a national accolade. The University has received the Athena SWAN Bronze Award and the Faculty of Mathematics and Physical Sciences holds the Athena SWAN Silver Award in recognition of our success in recruiting, retaining and developing/promoting women in Science, Engineering and Technology (SET). We are proud of our commitment to equality, flexible working and inclusiveness.

The University offers generous terms and conditions of employment, a wide range of benefits, services, facilities and family friendly policies. Full details are available on the Human Resources web pages accessible at [www.leeds.ac.uk/hr/index.htm](http://www.leeds.ac.uk/hr/index.htm) Applications from women, who are currently under-represented in this area, will be particularly welcome. The final recruitment decision will be based solely on merit.

Full-time (part-time hours will be considered)

**Responsible to:** Head of School and its Management Group  
**Reports to:** Head of Statistics

## **1. MAIN POSTHOLDER RESPONSIBILITIES**

- 1.1 Undertake internationally leading research and inspirational teaching, taking a leadership role in translating excellence in research and scholarship into learning opportunities for students.
- 1.2 Profess and promote the disciplines of Data Analytics and/or Statistics nationally and internationally, winning prestige for both the discipline and the University.
- 1.3 Provide a major contribution to the strategic academic development, direction and leadership of the School, Faculty and University.
- 1.4 Promote and help to deliver excellence in research and student education for the School and the highest standards of student experience.
- 1.5 Support and mentor less experienced academic and research staff to promote career development and the nurturing of academic talent.

## **2. RESPONSIBILITIES – STUDENT EDUCATION**

- 2.1 Inspire students through research-led teaching on undergraduate and postgraduate taught courses, achieving high standards of student feedback.
- 2.2 Provide a leading contribution to School and, as appropriate, Faculty policy and practice in teaching, promoting world class education and an exceptional student experience.
- 2.3 Take a lead role in the design, development and planning of modules and programmes.
- 2.4 Take a lead role in the review of modules and programmes and in quality assurance and enhancement processes within the subject area.
- 2.5 Develop innovative approaches to learning and teaching.
- 2.6 Provide high quality student support, acting as a personal tutor, supporting involvement in ([leedsforlife.leeds.ac.uk](http://leedsforlife.leeds.ac.uk)), and working with students to sustain a set of shared expectations as described in 'The Partnership' ([partnership.leeds.ac.uk](http://partnership.leeds.ac.uk)).

## **3. RESPONSIBILITIES - RESEARCH, INNOVATION & IMPACT**

- 3.1 Develop and lead excellent research, innovation and impact at national and international levels.
- 3.2 Establish and maintain a high quality record of research output in leading internationally-recognised publications.
- 3.3 Achieve sustained high levels of research funding individually and/or in collaboration with others and develop and maintain networks (particularly between the School and LIDA) and promote links with Research Councils and external organisations.
- 3.4 Provide academic leadership and guidance to colleagues working within own research area and more widely across the School, Faculty and University, building research teams and promoting the development of a vibrant and sustainable research culture, community and environment in the School.
- 3.5 Attract high quality postgraduate research students to the University and provide them with excellent supervision which supports timely completion and subsequent employability.
- 3.6 Build and sustain relationships with external bodies to develop the School's innovation and impact agenda.
- 3.7 Promote the integration of research interests within the School, across the University and externally.

## **4. RESPONSIBILITIES - LEADERSHIP & MANAGEMENT**

- 4.1 Make a dynamic, ambitious, energetic contribution to the development and delivery of the School's academic mission.

- 4.2 Provide a major input to the strategic academic development and direction of the School and the Faculty and to the academic leadership of the discipline.
- 4.3 Make a significant contribution to the University through its governance structures and by representing the University externally.
- 4.4 Manage or lead major initiatives and/or multidisciplinary areas of work which improve School, Faculty or University performance.
- 4.5 Actively promote and engage with the University's People Management Framework ([www.leeds.ac.uk/hr/development/pmf.htm](http://www.leeds.ac.uk/hr/development/pmf.htm)) to ensure high standards of employment practices and staff management across the School.
- 4.6 Adhere to University values and standards, including the Leadership and Management Standard, and in line with University policies and procedures and local Faculty/School benchmarks as appropriate, upholding high professional standards and leading by example.
- 4.7 Exercise leadership in alignment with the University Leadership and Management Standard ([www.sddu.leeds.ac.uk/sddu-University-of-leeds-leadership-and-management-standard.html](http://www.sddu.leeds.ac.uk/sddu-University-of-leeds-leadership-and-management-standard.html)), ensuring that appropriate staff training and development is identified and undertaken.
- 4.8 Sustain own continuing professional development as a leader.
- 4.9 Maintain a safe and healthy work environment, including ensuring compliance with health and safety legislation and the undertaking of appropriate risk assessments.
- 4.10 Comply with the University's financial and procurement procedures and regulations, undertaking relevant induction/training.

This job description provides a framework for the role and it may be necessary to undertake other duties commensurate with the post as might reasonably be required.

## **5. PERSON SPECIFICATION**

Candidates will be expected to demonstrate appropriate levels of experience and skill to enable them to achieve the requirements of the job description. The following skills and abilities are essential in this context:

- 5.1 Have a PhD or other doctorate in a relevant discipline or equivalent research experience.
- 5.2 Have an established and strong track record of research in an area of mathematics or statistics directly applicable to the field of Data Analytics
- 5.3 Evidence understanding of the principles of research-led teaching and a track record of integrating research with learning and teaching to deliver an excellent student experience, and an ability to lead the development a portfolio of modules.
- 5.4 Demonstrate ability to provide academic leadership in research both by own work and through the encouragement and stimulation of colleagues.

- 5.5 Demonstrate a track record of sustained ambitious and imaginative academic leadership.
- 5.6 Evidence an excellent track record of relevant research and publication which meet international standards of academic excellence, including a significant quantity of 3\* and 4\* REF equivalent published research.
- 5.7 Evidence of a continued record of leading successful applications for funding, through obtaining national or international grants for research.
- 5.8 Show international links and evidence of effective engagement with and influencing national and international research agendas.
- 5.9 Demonstrate ability to work across subject areas, linking appropriately with other disciplines and research groups.
- 5.10 Demonstrate a track record of effective team working and collaborative development.
- 5.11 Evidence willingness and capacity to take on a significant role in Faculty/School development.
- 5.12 Demonstrate excellent organisational and communication skills.
- 5.13 Demonstrate ability to think laterally, to be imaginative and to anticipate trends and opportunities.

## **6. INFORMAL ENQUIRIES**

Informal enquiries may be made to Professor Charles Taylor, Head of Statistics: telephone +44 (0)113 343 5168, e-mail [c.c.taylor@leeds.ac.uk](mailto:c.c.taylor@leeds.ac.uk) or Professor Alastair Rucklidge, Head of School: telephone +44 (0)113 343 5161, e-mail [a.m.rucklidge@leeds.ac.uk](mailto:a.m.rucklidge@leeds.ac.uk).

Click here for further information about working at the University of Leeds: [www.leeds.ac.uk/info/20025/university\\_jobs](http://www.leeds.ac.uk/info/20025/university_jobs).

## **7. FURTHER INFORMATION**

Terms and conditions of service applicable to appointments at professorial level can be viewed at: <http://www.leeds.ac.uk/hr/policy/terms.htm>.

The salary, which is negotiable, will be within the Professorial range - minimum £59,913 p.a.

Appointment to an academic or academic-related staff post confers the right to join the Universities' Superannuation Scheme (USS), although membership of this scheme is not a condition of employment. Members of the scheme are contracted out of the State Earnings Related Scheme (SERPS).

Participation in the Staff Review and Development Scheme is a condition of employment for academic and related staff.

The University of Leeds is an equal opportunities employer. We welcome applications from all sections of the community regardless of gender, ethnic origin or disability.

Women and members of ethnic minorities and disabled people are under-represented in the University in posts at this level and the University would therefore particularly welcome applicants from members of such groups whilst, however, affirming that the appointment will be made entirely on merit.

### **Disclosure and Barring Service Checks**

A Disclosure and Barring Service (DBS) Check is not required for this position. However, applicants who have unspent convictions must indicate this in the 'other personal details' section of the application form and send details to the Recruitment Officer.

### **Right to work**

EEA nationals except those from Croatia have an automatic right to work and live in the UK. Swiss nationals also have these rights. If you are from outside the EEA or you are a national of Croatia, unless you already can evidence that you have the right to work in the UK with relevant documentation, you will need a certificate of sponsorship and leave to enter and remain in the UK before you can take up employment at the University.

Tier 2 certificates of sponsorship are normally granted only where the job requires at least a first degree. At this level the University is required to show that it is unable to recruit an appointable resident worker before a certificate of sponsorship can be granted. For jobs requiring a PhD the requirement is to show that the non EEA national is the best candidate for the job before a certificate will be granted.

Any offer of employment is made on the condition that we are granted permission by UK Visas and Immigration to employ you and that you are granted entry clearance/leave to remain (visa) in the UK. We will apply for a certificate of sponsorship once you have accepted the offer of employment. You are responsible for applying and paying for your appropriate entry clearance/leave to remain in the UK. Once a certificate of sponsorship has been obtained we will contact you to let you have the certificate number which you will need to submit your visa application.

You may not take up the employment until both the certificate of sponsorship and the entry clearance/leave to remain, if appropriate, have been approved. If you do any work before this you are working illegally and this may affect your application / continued employment. Your employment will be conditional upon your continued eligibility to live and work in the UK.

More information is available on the UK Visas and Immigration website at: <https://www.gov.uk/government/organisations/uk-visas-and-immigration>.

### **Disabled Applicants**

The post is located in the Social Sciences Building. Disabled applicants wishing to review building access are invited to contact the department direct. Additional information may be sought from the Recruitment Officer, email [disclosure@leeds.ac.uk](mailto:disclosure@leeds.ac.uk) or tel + 44 (0)113 343 1723.

Disabled applicants are not obliged to inform employers of their disability but will still be covered by the Equality Act once their disability becomes known.

**Further information for applicants with disabilities, impairments or health conditions is available in the applicant guidance.**

### **Data Protection**

The information you provide in your application will be used to consider your suitability for the post you have applied for. If your application is not successful, the information will be disposed of confidentially within 9 months. If your application is successful and you are appointed, your information and future data will be processed in accordance with the University's Data Protection Code of Practice. A copy of this code can be obtained from either the University of Leeds Human Resources Department or by visiting: [http://hr.leeds.ac.uk/homepage/4/forms\\_and\\_policies](http://hr.leeds.ac.uk/homepage/4/forms_and_policies).

### **Health and Safety Responsibilities**

You are required to adhere to, and comply with the provisions of the Health and Safety at Work Act, related Regulations, and act in accordance to the University's Policy on Health and Safety which can be accessed via: <http://www.leeds.ac.uk/safety/>.

In addition, you are also required to co-operate with regard to the implementation of the Health and Safety arrangements and should not interfere with or misuse anything provided in the interest of Health, Safety and Welfare at Work.

### **Equality and Diversity Statement**

The University of Leeds is proud to be a multi-cultural community. We value diversity, and are determined to ensure:

- that we treat all individuals fairly, with dignity and respect;
- that the opportunities we provide are open to all;
- that we provide a safe, supportive and welcoming environment – for staff, for students and for visitors.

We recognise that we still have work to do to secure a truly inclusive community, and we are committed to a wide-ranging plan of action to tackle discrimination and to promote diversity.

The Equality and Diversity Statement forms part of the University's Equality and Diversity Policy, which applies to staff and students alike and, along with the Policy on Dignity and Mutual Respect, is available on the University's website at: <http://www.equality.leeds.ac.uk/university-policies-2/>.

Further information and advice are available from The Equality Service: telephone: +44 (0) 113 343 3927 or by e-mail: [equality@leeds.ac.uk](mailto:equality@leeds.ac.uk).

Information for international staff moving to the UK can be found at: <http://www.internationalstaff.ac.uk>.

## 8. HOW TO APPLY

Applicants should study the further particulars, job description and the person specification, then complete the online application form addressing each of the criteria as instructed, attaching any additional information as required by following the online instructions.

**Applications should include the following:**

- a completed **online application form** – <https://jobs.leeds.ac.uk>
- a copy of your **curriculum vitae**.

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| <b>Closing date for applications:</b> | Friday 3 <sup>rd</sup> April 2015    |
| <b>Quoting Job Reference number:</b>  | MAPMA1012                            |
| <b>School Presentation Date:</b>      | Friday 8 <sup>th</sup> May 2015 - am |
| <b>Interview Date:</b>                | Friday 8 <sup>th</sup> May 2015 - pm |

Should you have any queries regarding the application process, please contact David Brett, Reward, Recruitment and Resourcing Administration Officer:  
tel +44 (0)113 343 5775, email: [d.j.brett@adm.leeds.ac.uk](mailto:d.j.brett@adm.leeds.ac.uk).

### References

It is the custom of this University to approach the referees of only those candidates who are invited to interview. Applicants are asked, therefore, to indicate clearly if they do not wish such approaches to be made.