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 **Job Description**

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| **Job title** | Professor of Statistics |
| **Department/School** | Mathematical Sciences |
| **Job family** | Education and Research |
| **Reporting to** | Head of Department/Group  |
| **Responsible for** | Any research staff/students |
| **Location** | University of Bath premises |

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| **Background and context** |
| The Department is undertaking a concerted effort to extend and broaden its strength in Statistics with a number of replacement and expansion posts at all levels. We are seeking applicants with an outstanding track record of independent research of international standing, either building on existing departmental strengths or expanding our research into other areas of statistics and data science including genetics and evolution, public health, operational research, machine learning and uncertainty quantification. We welcome inquiries regarding joint candidatures and possible group building efforts.The Department is also expanding its research at the interface of Statistics, Stochastics, Numerical Analysis and Applied Mathematics with an additional Applied Mathematics position at the lecturer level which will enhance the intradisciplinary nature of our statistics research.The post holder will be expected to sustain a leading research programme, and to be active in developing and submitting competitive applications for external funding, as well as to share fully in the life of and responsibilities within the Department. Candidates should also have a strong interest in pursuing excellence in undergraduate and postgraduate teaching and in supervising graduate students.They will provide leadership within our research group in Statistics, within our *EPSRC Centre for Doctoral Training in Statistical Applied Mathematics (SAMBa)* and within the *Institute for Mathematical Innovation at Bath (IMI),* as well as engage in interdisciplinary projects with, e.g., the *Milner Centre for Evolution* or the *Institute for Policy Research.* |

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| **Job purpose** |
| To lead research with high international impact and profile; lead teaching at undergraduate and postgraduate level, and undertake management and leadership duties commensurate with the role. |

| **Main duties and responsibilities**  |
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| The job duties and responsibilities listed below are intended to describe the general nature of the role. The duties and responsibilities and the balance between the elements in the role may change or vary over time depending on the specific needs at a specific point in time, or due to changing needs in the department/group. Jobholders should note that there may not be an immediate requirement to carry out all the activities listed below. |
| **1** | **Research & scholarship** |
| a | Demonstrate research leadership to ensure the highest standards of ethics and integrity in research, with international collaborations as appropriate to the discipline. |
| b | Lead major collaborative research activity with other institutions or bodies to bring significant benefit to the University’s national and international standing. |
| c | Attract external funding to support major activity in collaboration with other Universities or organisations. |
| d | Maintain a regular output of highest quality research which is published in leading research journals and national/international conferences or other outputs as appropriate to the discipline.  |
| e | Present research (often by invitation) at international conferences and/ or at other appropriate high-profile events. |
| f | Provide leadership to maximise the non-academic impact of research, including substantial knowledge or technology exchange and/or public engagement activities, including a range of partnerships with external organisations. |
| g | Contribute significantly to the development and implementation of research strategies in the Department/School |
| h | Contribute to the enhancement of postgraduate research student environment, including through leadership of doctoral training centres and partnerships. |
| **2** | **Teaching**  |
| a | Deliver a wide range of effective and inclusive teaching and supporting learning activities |
| b | Assess the work and progress of students and provide them with constructive feedback. |
| c | Seek ways of improving performance by reflecting on teaching design and delivery and obtaining and analysing feedback. |
| d | Lead and develop innovative approaches to improving the learning environment, including use of learning technologies and techniques. |
| e | Engage in professional development in relation to teaching, learning and assessment, related to academic, institutional and/or other professional practises. |
| f | Write/author teaching materials in appropriate discipline area. |
| g | Develop and market curricula or methods of teaching designed to attract new client groups.  |
| h | Engage in pedagogic research or practitioner research and other scholarly activities |
| i | Contribute to outreach and/or Widening Participation public engagement activity within the Department, Faculty/School or University. |
| **3** | **Management and leadership**  |
| a | Represent the University as an acknowledged expert in the appropriate discipline e.g. participate as an expert witness or give professional advice to government bodies and other agencies. |
| b | Provide leadership that will influence and shape the output of their department and contribute directly to the level of success of the department. |
| c | Represent the Department/Faculty’s activities with groups beyond the University – especially internationally – bringing benefit to the University over a sustained period. |
| d | Establish and develop sustainable academic networks with other HE/FE institutions nationally and internationally which bring benefit to the Department/School/University. |

**Person Specification**

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| **Criteria** | **Essential** | **Desirable** | **Assessed by** |
| **Qualifications** |  |  |  |
| PhD in Statistics or equivalent | √ |  | A/F |
| Higher education teaching qualification or professional recognition (e.g. PGCert, FHEA or equivalent) |  | √ | A/F |
| **Experience/Knowledge** |  |  |  |
| Deep knowledge of Statistics | √ |  | A/F & I/T |
| World-class publication record in high-quality peer-reviewed journals | √  |  | A/F |
| Experience in attracting research funding | √  |  | A/F |
| Experience in supervising postdocs |  | √  | A/F |
| Experience in supervising graduate students  | √  |  | A/F |
| Evidence of effective achievements in teaching and/or supported learning |  | √  | A/F & I/T |
| **Skills** |  |  |  |
| Outstanding written and oral presentation and communication skills | √ |  | I/T & R |
| Potential or demonstrated administrative skills | √ |  | A/F & R |
| Ability to provide research leadership | √ |  | A/F, I/T & R |
| Ability to contribute to the management and strategic direction of the Department | √ |  | A/F, I/T & R |
| Inspirational communicator of research concepts | √ |  | I/T & R |
| **Attributes** |  |  |  |
| World-class research reputation in Statistics, interpreted broadly | √ |  | A/F, I/T & R |
| Good local, national and international collaborator and networker | √ |  | I/T & R |
| Potential to attract external research funding | √ |  | I/T & R |
| Commitment to high quality teaching  | √ |  | A/F & I/T |

Code: A/F – Application form, I/T – Interview/Talk, R – References