



Job Description

Job title	Professor of Probability
Department/School	Mathematics
Job family	Education and Research
Reporting to	Head of Department
Responsible for	Any research staff/students
Location	University of Bath premises

Background and context

Applications are invited for a full professorship within the Probability Laboratory at Bath (Prob-L@B).

Prob-L@B is a University of Bath Research Centre of Excellence, embedded within the Department of Mathematical Sciences. It is one of the leading international research groups in the field comprised of permanent academics: Professors Mathew Penrose and Andreas Kyprianou, Readers Alexandre Stauffer and Tim Rogers, Senior Lecturers Simon Harris, Alex Cox and Antal Jarai and Lecturers Matt Roberts and Marcel Ortgiese.

The Laboratory attracts a high-volume flow of outstanding young researchers in the form of postgraduate research students and postdoctoral researchers. Currently there are 8 postdoctoral researchers and a steady state of around 20 PhD students, where the Prob-L@B works closely with SAMBa, Bath's EPSRC Centre for Doctoral Training.

This is achieved by providing a highly active and reactive research centre through sustained grant income (a current collective holding of around 3 million pounds), graduate courses, a high density of esteemed visitors and yearly research workshops on current themes.

The new professor will be expected to show leadership in continuing the vision of the laboratory.

Further details about all of Prob-L@B's activities can be found on its webpages:

<http://www.bath.ac.uk/research/centres/probability-laboratory/>

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	
<p>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.</p>	
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

Criteria	Essential	Desirable	Examples measured by
Qualifications			
PhD or equivalent in relevant discipline	√		
Membership of professional body		√	
Higher education teaching qualification or professional recognition (e.g. PGCert, FHEA or equivalent)		√	
Experience/Knowledge			
Acknowledged expert in appropriate discipline	√		
Sustained record of publications in leading peer-reviewed journals at a national and normally international level	√		
Sustained record of research funding as appropriate to the discipline	√		
Able to show evidence of international recognition and esteem (such as journal editorships, invitations to be conference organisers, research council board membership)	√		
Evidence of effective achievements in teaching and/or supported learning	√		
Skills			
Academic leadership	√		
Ability to articulate a research vision and strategy for development, implementation and delivery of successful research projects	√		
Excellent written and verbal communication skills including presentation skills	√		
Excellent interpersonal skills, communication style and team working	√		
Evidence of positive working relationships within the University, community, business and other partners	√		
Attributes			
Commitment to excellence in research and teaching and to providing the highest quality experience for students	√		
Commitment to working within professional and ethical codes of conduct	√		