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**Job Description**

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| **Job title** | Senior Lecturer in Analysis |
| **Department/School** | Department of Mathematical Sciences |
| **Job family** | Education and Research |
| **Grade** | 9 |
| **Reporting to** | Head of Department/Group |
| **Responsible for** | Any research staff/students appointed to grants held |
| **Location** | University of Bath premises |

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| **Background and context** |
| The Department wishes to sustain and extend its academic strength and international presence in the field of Analysis and is seeking to make one appointment at the Lecturer/Senior Lecturer/Reader Level. Applicants active in any branch of Analysis are invited to apply.  The Department has traditional strengths in Partial Differential Equations, Calculus of Variations, Control Theory, Multi-Scale Analysis, Geometric Analysis and Operator Theory. In recent years the Department has expanded its research portfolio with appointments in Harmonic analysis and Stochastic Analysis. The Analysis Group has a strong tradition of interdisciplinary links with applications. The planned appointment will strengthen or extend these research activities.  A successful applicant at Senior Lecturer level (roughly equivalent to Associate Professor) will have an excellent track record of independent research of international standing and will be expected to demonstrate sustained excellence in teaching.  The appointee will be expected to sustain a leading research programme, to be active in developing and submitting competitive applications for external funding, and to have a strong interest in supervising graduate students. They are expected to sustain excellence in undergraduate and postgraduate teaching, and to share fully in the life of and responsibilities within the Department.  The appointee will benefit from the supportive and vibrant community of researchers at Bath. Bath houses an EPSRC-funded Centre for Doctoral Training, and the Institute for Mathematical Innovation, which supports interaction with industry. |

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| **Job purpose** |
| To conduct research with a high potential for national and international impact and profile; undertake teaching at undergraduate and postgraduate level; supervise postgraduate research students, and undertake management and administrative duties commensurate with the role. |

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| **Main duties and responsibilities** | |
| 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** |
| a | Lead a research team as appropriate to the discipline, including supervision of research students and staff, ensuring a commitment to the highest standards of ethics and integrity in research. |
| b | Lead collaborative research projects at a national or international level as appropriate to the discipline. |
| c | Attract external funding to support research activity. |
| d | Maintain a regular output of high quality research which is published in leading research journals or elsewhere as appropriate to the discipline. |
| e | Present research at national and/or international conferences and/ or at other appropriate events. |
| f | Contribute to the development and implementation of research strategies in the Department. |
| g | Engage effectively in non-academic impact of research, including substantial knowledge or technology exchange and/or public engagement activities, involving a range of partnerships with external organisations. |
| **2** | **Teaching** |
| a | Design, plan and implement effective and inclusive teaching and supporting learning activities, across a range of modules/units. |
| b | Contribute to course development and the development of new programmes of study as the need arises. |
| c | Assess the work and progress of students and provide them with constructive feedback. |
| d | Seek ways of improving performance by reflecting on teaching design and delivery and obtaining and analysing feedback. |
| e | Develop ideas for improving the learning environment, teaching and/or assessment and feedback methods. |
| f | Engage in professional development in relation to teaching, learning and assessment, and participate in teaching initiatives at a regional, national and/or international level to consolidate teaching interests of the Department*.* |
| g | Contribute to outreach and/or Widening Participation activity within the Department, Faculty/School or University. |
| **3** | **Management and administration** |
| a | Undertake internal roles of responsibility e.g. Director of Studies, and contribute to institutional committees and working parties. |
| b | Manage and support colleagues with less experience and facilitate their academic and personal development. |
| c | Represent the Department in external relations as required, e.g. at open days, outreach activities, student placements. |
| d | Foster and develop internal or external networks of benefit to the Department/University. |

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**Person Specification**

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| **Criteria** | **Essential** | **Desirable** | **Examples measured by** |
| **Qualifications** |  |  |  |
| PhD or equivalent in relevant discipline  Undergraduate degree or equivalent in Mathematics or related discipline.  Higher education teaching qualification or professional recognition (e.g. PGCert, FHEA or equivalent) | √  √ | √ | A/F  A/F  A/F |
| **Experience/Knowledge** |  |  |  |
| Substantial expertise and experience in Analysis  A strong track record of research in Analysis  Experience of teaching at UG/PG level    Some knowledge of undergraduate statistics | √  √  √ | √ | A/F and I/T  A/F  A/F  A/F and I/T |
| **Skills** |  |  |  |
| Excellent written and verbal communication skills including presentation skills  Ability to lecture  A creative vision for development and implementation of successful research projects  Ability to supervise PhD students  Excellent organisational and administrative skills  Ability to form positive working relationships both within the University, and with external partners | √  √  √  √  √  √ |  | A/F, I/T and R  A/F I/T and R  A/F, I/T and R  I/T and R  A/F, I/T and R  A/F, I/T and R |
| **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 | √  √ |  | A/F, I/T and R  A/F, I/T and R |