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**Job Description**

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| **Job title** | Professor in Computer Systems Engineering |
| **Department/School** | Department of Electronic and Electrical Engineering |
| **Job family** | Education and Research |
| **Reporting to** | Head of Department |
| **Responsible for** | Any research staff/students |
| **Location** | University of Bath premises |

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| **Background and context** |
| The Department of Electronic & Electrical Engineering is a successful and expanding department with over 30 academic staff. 96% of our research activity was graded as either world-leading or internationally excellent in the Research Excellence Framework 2021 and regularly achieves high Overall Satisfaction and ranking in the National Student Survey.  The Department is committed to supporting excellence in both research and teaching. It offers a range of undergraduate programmes in electronic and electrical engineering and is expanding its MSc portfolio. Details of its undergraduate and taught postgraduate programmes can be found at <http://www.bath.ac.uk/elec-eng>. In addition to a range of electrical and electronic engineering programmes, our undergraduate programmes include the MEng Integrated Mechanical and Electrical Engineering (a joint programme with Department of Mechanical Engineering) and a new MEng Robotics Engineering.  The Department’s efforts to meet its objectives are supported by a number of management and leadership tasks which are distributed amongst the members of academic staff. The jobholder will be expected to contribute to these tasks as appropriate but with a specific focus on the strategic development of computer systems engineering and related topics. The jobholder is expected to display an attitude of collaboration and collegiality both with existing members of the Department and the wider community. |

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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. To focus on strategic development and delivery of our computer systems engineering programmes and new joint programmes. |

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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 & 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.. |
| **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. |

**Person Specification**

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| **Criteria** | **Essential** | **Desirable** |
| **Qualifications** |  |  |
| PhD or equivalent in relevant discipline  Membership of professional body (IET)  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 | √  √ |  |