

**Job Description**

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| Job Title: | Lecturer in Computer Science |
| Faculty/Department: | School of Engineering and Computer Science |
| Reporting to: | Head of School |
| Duration: | Continuing |
| Job Family: | Academic |
| Pay Band: | 8 |
| Benchmark Profile: | Teaching and Research Band 8 |
| DBS Disclosure requirement: | No |
| Vacancy Reference: | FS0316 |

**Details Specific to the Post**

**Background and Context**

The School of Engineering and Computer Science is internationally recognised as a centre for excellence in teaching and research. We have a thriving undergraduate and postgraduate provision, which is supported by friendly staff and state-of-the-art commercial and research facilities. The Computer Science subject group currently has 30 academic staff, more than 50 postgraduate students and around 780 undergraduate students. We offer a portfolio of undergraduate and taught postgraduate programmes in Computer Science, including specialisms in games programming, robotics and software engineering.

We have a strong reputation for the employability of our students and have well-established partnerships with companies such as Microsoft, Sony, Black Marble and Electronic Arts. We also work closely with local industry groups and our Local Enterprise Partnership. We have developed a self-sustaining commercial software development unit, Software Engineering Experience Development (Seed), which provides the opportunity for guaranteed industrial experience as part of our degrees as well as a commercial context for many projects.

Our vibrant and active research community is organised into four interacting groups and appointees would have the opportunity to join one or more of these groups.

* Virtual environments and human computer interaction
* Dependable Intelligent Systems
* Big data analytics
* Robotics and autonomous systems

Our key research directions span these research groups and are aligned with University strategic developments.

The University is now in an exciting period of improvement and investment in infrastructure and facilities. Computer Science is playing a pivotal role in this transformation, with the development of new programmes areas such as cybersecurity and robotics, and the development of innovative new research and teaching spaces. To support this growth of the School, we are seeking to appoint a dynamic and enthusiastic lecturer with a proven research track record to build critical mass in one of our key areas. We welcome applications from candidates with experience relevant to any of our research areas, but are particularly seeking those with a track record in cybersecurity, networking and privacy systems research to help grow an embryo group of academic staff working in this area and to help capitalize on enterprise opportunities.

The Department places a strong emphasis on computer programming and software development and many of our research activities are based around software developed within the department. We highly value student involvement in research and enterprise activities and in addition to regular networking events run to match students to local companies for placements we also run internship schemes of our own to encourage software development experience and to assist students along their pathways to employment in the computing industry or involvement with the research groups in postgraduate research.

### Specific Duties and Responsibilities of the post

This vacancy is for a full-time continuing lecturer in Computer Science. The post holder will contribute to research and teaching within the Department and have research interests that complement and extend our current strengths and research groups.

Specific duties are:

#### To obtain research funding and provide high quality outputs and publications in Computer Science or related disciplines.

* To develop and deliver undergraduate and taught postgraduate curricula.
* To support and mentor postgraduate research students in the development of their research careers.
* To play an active role in the life of the Department, by supporting activities around research, teaching, enterprise, student experience and widening participation.

Post holders will be given time and encouragement to develop their research further; initially receiving a reduced teaching load.

Internationally excellent research is expected of all academic colleagues in the Department. Recent appointments have built upon on existing strengths to create a strong REF submission.

In your covering letter please refer directly to the criteria, given in the person specification below. Applications are assessed by the selection panel according to these criteria.

**GENERIC JOB DESCRIPTION**

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. Candidates should note that there may not be an immediate requirement to carry out all the activities listed below.

### Overall Purpose of the Role

This role will be carried out by individuals with extensive experience in teaching and research usually by progression from the corresponding band 7 role. Direct appointments to this level may be made where it is clear the staff have appropriate experience.

At this level, role holders’ contribution spans scholarship, teaching, research and related administration, though the weight allocated to each of these strands will vary from role to role and from time to time for individual role holders.

The role holder will:

* Have the ability to design and deliver course materials as well as experience and demonstrated success in delivering teaching including identifying current areas for revision and improvement
* Will have extensive research experience within subject specialism and conduct individual and collaborative research projects, including developing research objectives and proposals which will be advancing the state of knowledge in their particular discipline.
* Write individually or contribute to publications and present at conferences or other events.
* Will contribute to department/faculty through leadership and management and have the ability to take responsibility for effective deployment of resources, contribute to the broader management processes and have skills in managing and motivating staff.

Role holders at this level will be expected to be establishing a reputation nationally and emerging reputing internationally within their academic specialism.

**Main Work Activities**

### Teaching and Learning

1. Design and deliver teaching material across a range of modules or within a subject area using appropriate teaching, learning support and assessment methods.
2. Supervise student projects, field trips and, where appropriate, placements.
3. Identify areas where current provision is in need of revision or improvement.
4. Contribute to the planning, design and development of objectives and material.
5. Set, mark and assess work and examinations and provide feedback to students.

**Research**

* Develop research objectives, projects and proposals.
* Conduct individual or collaborative research projects.
* Identify sources of funding and contribute to the process of securing funds.
* Write or contribute to publications or disseminate research findings using other appropriate media.
* Make presentations at conferences or exhibit work at other appropriate events.

**Relationships and Team working**

* Develop and build internal and external contacts which may include:
* identifying sources of funding
* contributing to student recruitment
* securing student placements
* marketing the institution
* facilitating outreach work
* generating income
* obtaining consultancy projects
* Advise and support colleagues with less experience and advise on personal development.
* May be expected to supervise the work of others, for example, research teams or projects or as PhD supervisor.
* Act as a responsible team member and develop productive working relationships with other members of the team.
* Collaborate with colleagues to identify and respond to students’ needs.
* Act as programme leader/course leader/module leader.

### Additionally the post holder will be required to:

* Fulfil the employees’ duties described in the University’s health and safety policies and co-operate with the health and safety arrangements in place within the department. May be required to undertake specific health and safety roles on request e.g. Display screen equipment assessor, departmental safety officer, fire warden etc.
* Show a commitment to diversity, equal opportunities and anti-discriminatory practices this includes undertaking mandatory equality and diversity training.
* Comply with University regulations, policies and procedures.

**PERSON SPECIFICATION – Teaching and Research Band 8**

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| **Specification** | **Essential** | **Desirable** | **Examples Measured by** |
| **Education and Training**  Formal qualifications and relevant training | * A good degree and a PhD in relevant discipline * A minimum requirement to be at Associate Fellow level as represented within the UK Professional Standards Framework | * Recognised professional accreditation | Application |
| **Work Experience**  Ability to undertake duties of the post | **Evidence of:**   * Reputation nationally and internationally for research, reflected in sustained output, level of innovation, impact on discipline or profession and recognition in high-impact factor journals * Research experience in the Department’s main research themes * Experience of teaching at undergraduate and postgraduate level * Excellence in teaching from peer review, from student assessment/feedback, and /or from examination results * A track record of attracting research funds | * A significant number of presentations at national and/or international conferences. * Membership of Departmental Teaching Committee or equivalent | Application  Interview |
| **Skills and Knowledge**  Includes abilities and intellect | **Evidence of:**   * An extensive knowledge and understanding of undergraduate and postgraduate computer science * An ability to develop new courses and actively contribute assessment examinations * An ability to communicate complex conceptual ideas to widely divergent audiences. * Effective management of resources e.g. financial, equipment etc | **Evidence of active contribution and influence in the following areas**:   * Effective management of research project resources * Ability to motivate research teams to deliver high quality outputs * Accreditation of courses by professional bodies * Acting as a visiting examiner at other Institutions * Involvement with external quality audit or assessment * Service as an advisor on teaching and learning in the local community | Application  Interview |
| **Personal Qualities**  Includes any specific physical requirements of the post – (subject to the provisions of the Equality Act 2010)  This includes information about how you meet the requirements under additional information as stated in the job description documentation. | **Evidence of**:   * A positive contribution to University activities and initiatives including open days, graduation ceremonies etc. and willingness to undertake administrative activities * Working in an open and transparent way, providing information and communicating effectively with colleagues * Collaborative working, particularly on interdisciplinary projects * Continuous Professional Development | * Collaborative working, particularly on interdisciplinary activities | Application  Interview |