Job Related Information

This document includes information about the role for which you are applying and the information you will need to provide with your application.

1. Role Details

<table>
<thead>
<tr>
<th>Vacancy reference</th>
<th>15014</th>
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</thead>
<tbody>
<tr>
<td>Job title:</td>
<td>Lecturers in Cyber Security (2 posts)</td>
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<tr>
<td>Reports to:</td>
<td>Head of School, Computing &amp; Communications</td>
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<tr>
<td>Salary:</td>
<td>£36,261 to £48,677</td>
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<tr>
<td>Terms and conditions:</td>
<td>Academic</td>
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<tr>
<td>Grade</td>
<td>AC2/3 – appointment dependent on experience</td>
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<tr>
<td>Duration of post:</td>
<td>Permanent</td>
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<tr>
<td>Working hours:</td>
<td>Full Time</td>
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<tr>
<td>Location:</td>
<td>Milton Keynes</td>
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<tr>
<td>Closing date:</td>
<td>12:00 noon on the 25 September 2018</td>
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<td>Type of application form accepted:</td>
<td>Short</td>
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<td>Number of referees required:</td>
<td>Three</td>
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<tr>
<td>Unit recruitment contact:</td>
<td>Rekha Ramesh</td>
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</table>
2. Summary of duties

We are seeking candidates with a strong grounding in cyber security, which includes at least one of the following areas:

- Network, System and Data security
- Digital forensics and Forensic Computing
- Secure protocols and applications
- Ethical Hacking
- Secure Software Development
- Malware Analysis, Intrusion Detection.

We aim to appoint inspiring and innovative teachers and scholars who enjoy developing novel approaches to teaching and working collaboratively with colleagues.

Since its inception, The Open University (OU) has focussed on innovation in teaching and learning, with a track record of providing, inspiring, world-leading programmes of higher education for students who learn at a distance. Building on award-winning initiatives such as the OpenSTEM Labs, the University is deepening its commitment to delivering the highest quality teaching through a significant, student-centred, investment programme. This will provide rewarding academic career paths that are focused on world-class teaching and scholarship, and will be aimed at strengthening our leadership in the field of digital innovation. As part of this programme, and recognising the critical global importance of addressing the cyber security skills gap, we are building a team of academic staff in the School of Computing and Communications at The Open University focussed on this area. This team will deliver transformative new approaches to teaching and learning in relation to cyber security, contributing to our leadership of the “University Learners” theme of the Institute of Coding (IoC - https://instituteofcoding.open.ac.uk/), and complementing the school’s internationally leading research in the field.

Main Duties

We wish to appoint two Lecturers in Cyber Security Education, both of whom will be expected to undertake a combination of the following duties:

1. Teaching
   a. Actively contribute to the design and delivery of a high quality cyber-security curriculum at undergraduate and postgraduate levels.
   b. Be an active member of the cyber security education team in the School of Computing & Communications to help deliver academic excellence by:
      i. developing the innovative and effective use of technology in our teaching, drawing upon evidence-based educational research and scholarship
      ii. developing novel models for assessing practical competencies in cyber security and other technical disciplines
   c. Promoting employability and career progression for our students
   d. Engage actively across the School with the OU’s strategy to deliver a world-leading student experience

2. Research, scholarship and knowledge exchange
   a. Pursue high quality research in cyber security and its pedagogy.
   b. Enhance our links with industry to enable teaching collaborations and knowledge exchange
   c. Attract external income to the School
   d. Contribute to the vibrant scholarship environment in the School
3. General
a. Act as an ambassador, both internally and externally, for the academic excellence of the School
b. Take responsibility for administrative and/or other academic duties as required by the Head of School
c. Contribute to the outreach activities of the School and Faculty

3. Person specification

Requirements  (E = Essential/ D = Desirable)

Education, qualifications and training

- A PhD, or substantial experience, in an area related to cyber security (E)

Knowledge, work and other relevant experience

Essential:
- Ability to contribute to the teaching of cyber security, with a particular focus on digital forensics; secure software engineering; or security testing.
- Demonstrable ability to communicate ideas clearly in written and spoken English.

Commensurate with career stage:
- Demonstrable expertise in an area of cyber security with a good understanding of how the discipline is developing.
- An understanding of the educational and study needs of students.
- Evidence of, or the potential to deliver, innovative teaching.
- Ability to produce high quality scholarly outputs in cyber security and its pedagogy.

Desirable:
- Experience of producing online learning materials.
- Experience of supporting students in a distance-learning setting

Commensurate with stage of career:
- Membership of professional bodies including Fellowship (or higher) of the UK Higher Education Academy or equivalent experience/standing in the UK or another country
- Successful experience of gaining external funding

Personal abilities and qualities

Essential:
- Ability to develop a leadership role in teaching and/or research/scholarship, commensurate with stage of career.
- The ability to work innovatively, adaptively and responsively in multidisciplinary teams.
- Excellent written and spoken English skills, together with the ability to offer and receive constructive criticism.
- Ability to plan and organise work to agreed deadlines.
- Commitment to the aims, ethos and values of the Open University
| Desirable: | • Ability to develop new collaborative partnerships within the University and with external organisations. |
4. Role specific requirements e.g. Shift working

5. About the unit/department

**Faculty of Science, Technology, Engineering & Mathematics**
The Faculty of Science, Technology, Engineering and Mathematics (STEM) is comprised:

- School of Computing & Communications
- School of Environment, Earth & Ecosystem Sciences
- School of Engineering & Innovation
- School of Life, Health & Chemical Sciences
- School of Mathematics & Statistics
- School of Physical Sciences
- Knowledge Media Institute
- Deanery including teams supporting Curriculum, Research and Enterprise, Laboratory Infrastructure and Faculty Administration

“We aspire to be world leaders in inclusive, innovative and high impact STEM teaching and research, equipping learners, employers and society with the capabilities to meet tomorrow’s challenges”

The Faculty of STEM consists of 700 staff and 1,800 Associate Lecturers. The Faculty delivers over 185 modules across undergraduate and postgraduate curriculum, supporting nearly 19,000 students (full time equivalents) which is 29% of the OU total.

The Faculty generates more research income (circa £17M) than any other Faculty in the University, supported by a comprehensive laboratory infrastructure.

We are proud of our distinctive values and capabilities underpinning our aspiration:

**We are inclusive:**
- We transform people’s lives, ensuring STEM education is openly accessible to many thousands of students from diverse backgrounds – our students express high satisfaction with their study experience
- We engage the public in exciting citizen science and engineering, including through free open educational resources, multi-platform broadcasting, outreach to inspire the next generation and with programmes to encourage more women into STEM

**We are highly innovative:**
- We are at the forefront of innovative developments in teaching practical science and engineering at a distance, through simulated and remote access laboratories and practical experimentation
- Our high quality teaching and curriculum are informed by world-leading research, strong links with professional bodies and communities of practitioners, as well as by scholarship focused on continuously improving our STEM pedagogy

**We deliver significant social and economic impact:**
- We provide STEM higher education at a scale and reach unsurpassed in the UK, with a sizeable international reach and further growth potential
- We inject transferable STEM skills and knowledge direct into the workplace for immediate employee and employer benefit, as students combine study while working
- The employability value of our courses is underpinned by accreditation from leading STEM Professional Bodies and Learned Societies, as well as partnerships and sponsorship with leading employers
Our high quality, applied and academically relevant teaching and research addresses real-world issues, delivering impact for industry and society, including addressing pressing STEM skill-shortages across the UK.

**School of Computing & Communications**

The School of Computing and Communications has around 80 academic and research staff, and is home for a number of visiting researchers and full-time and part-time research students.

Our objectives are:
- Transforming students’ lives through innovative and dynamic teaching enriched by world-class research and scholarship.
- Developing graduates with technical, analytical and creative skills who meet the highest expectations of employers and who can make a difference in their workplaces.
- Leading and shaping the digital revolution through people-centred, inter-disciplinary, collaborative research and scholarship that transforms society.
- Looking outwards to engage with individuals and external bodies, sharing our knowledge and developing mutually beneficial partnerships, so together we can create a more technically and socially aware digital society.
- Being a vibrant, agile and inclusive academic community that promotes academic excellence in all areas of teaching, research and external engagement.

We teach a comprehensive range of undergraduate and postgraduate qualifications. Our students are nearly all part-time and are studying at different rates. We have the equivalent of 4772 full-time students registered for our undergraduate BSc degree across the UK and Europe, mostly studying at home. We have also just launched a degree apprenticeship in Digital Technology Solutions, one of three apprenticeships forming a pilot across the University.

We pioneered an online Introduction to Cyber Security MOOC (http://bit.ly/1pMMKhk), hosted on Futurelearn, which has been studied by over 140,000 learners worldwide. We are currently developing a further six MOOCs in cyber security. We also have extensive Open Educational Resources hosted by OpenLearn, run a distance ‘boot camp’ in programming, and have a robotics lab funded by HEFCE which we are working to make accessible to students from their homes.

We aim for, and achieve, international excellence in research and teaching. The OU’s Computing research performed strongly in the Research Excellence Framework (REF 2014) assessment, with 75% of outputs rated world-leading or internationally-excellent (up from 70% in 2008), and an excellent research environment (100% rated world-leading or internationally-excellent).

We focus on the use of technology to enhance human experience. Our research is:
- Empowering: placing people at the centre
- Situated: focusing as much on context as on technology
- Disruptive: creatively disrupting discipline borders to give fresh perspectives and solutions

Our strong sense of collegiality and community continues to shape and direct the interdisciplinary approaches used throughout our work. The School of Computing and Communications holds the Athena SWAN Bronze Award and is committed to transforming gender equality.

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6. **How to obtain more information about the role or application process**

If you would like to discuss the particulars of this role before making an application please contact Prof. Arosha K. Bandara, Head of School, Computing & Communications (arosha.bandara@open.ac.uk).

If you have any questions regarding the application process please contact Rekha Ramesh on +44 (0) 1908 659037 or email: STEM-Recruitment@open.ac.uk.
7. The application process and where to send completed applications

| Your application should contain: | 1. A completed short application form  
| 2. Covering letter  
| 3. CV which includes details of academic qualifications, teaching, management, and research including grants received and publications, and experience appropriate to this role. |

| Please ensure that your application reaches the University by: | 12:00 noon on the 25 September 2018 |

| E-mail your application to: | STEM-Recruitment@open.ac.uk |

| Or post it to Name/Job title: | Rekha Ramesh, Staffing Adviser |

| Department/Unit: | Deanery, Faculty of Science, Technology, Engineering & Mathematics |

| Address: | The Open University, Walton Hall, Milton Keynes, MK7 6AA |

8. Selection process and date of interview

| The interview panel will be chaired by: | Nicholas Braithwaite, Associate Dean – Academic Excellence |

| The other members of the interview panel will be: | Arosha K. Bandara, Head of School, Computing and Communications (C&C), Chitra Balakrishna, Senior Lecturer in Cyber Security Education + additional members to be confirmed |

| The interviews will take place on: | To be confirmed |

| The selection process for this post will include | 1. A short, specified teaching activity to be completed before the interview date;  
| 2. A presentation of an aspect of your research, scholarship or knowledge exchange work to members of the School;  
| The teaching text and presentation will be discussed with you as part of the interview process. |

We will let you know as soon as possible after the closing date whether you have been shortlisted for interview. Further details on the selection process will also be sent to shortlisted candidates. Applications received after the closing date will not be accepted.