

ROLE DESCRIPTOR for PROFESSOR OF COMPUTING

Job Purpose

The Professor of Computer Science will lead on academic development of this subject area across the University and will be expected to develop a portfolio of research and engagement activities that enhances the reputation and capacity of the University. An ability to work with key partners, in particular BAE Systems and its supply chain in the first instance, will be essential, as will the ability to promote computer science and computing across the University and externally.

The Professor will demonstrate recognition by their peer community as a significant contributor to their field and have an established or high potential emerging international reputation. They are also expected to be able to demonstrate a substantive body published work constituting major points of reference alongside a track record of attracting and delivering funded research projects. They will also be expected to have achieved awards or fulfilled roles within or outside the University that are consistent with the level of recognition by their peer community.

The Professor will contribute fully to teaching and/or the promotion of learning and normally exercise a key role in the leadership and/or management of one or more of their Research Centre, Institute, or the University.

Role Duties and Responsibilities

1. Provide direction and lead on development of computer science, initially with a focus on developing national expertise and recognition in one or more areas of digital, data science, artificial intelligence, and cyber security.
2. Contribute to the development the Barrow Learning Quarter campus, helping to establish it as a national exemplar of STEM and business provision in advanced manufacturing.
3. Lead the implementation of the Institute's digital and computing portfolio and product/programme development; the continued development and fitness of the academy; learning and teaching; research and enterprise and employer engagement, including leadership within activities related to computer science.
4. Undertake and lead on work in one or more fields of research to a high standard, being recognised as a leading figure by their peer community, nationally and internationally.
5. Enhance the University's Research Excellence Framework returns and submissions by building capability and producing outputs in relevant areas of research.
6. Further the subject area of computer science by research and other activities which enhance its growth as a field of scholarship.
7. Write or contribute to publications of such quality that they can be included in relevant assessments of research including the Research Excellence Framework
8. Disseminate research findings in high-quality international journals and other appropriate media.
9. Present at conferences, nationally and on an international stage, as a significant contributor, receiving peer esteem for contributions and enhancing the reputation and standing of the University.

10. Initiate the organisation of, and the participation in, conferences, seminars and other research meetings including acting as chair, nationally and internationally.
11. Develop the field as a discipline through editorships or relevant publications and memberships of public bodies.
12. Create and maintain research links with other Universities, nationally and internationally.
13. Demonstrate a capacity to, and an enthusiasm for, making a general contribution to the academic work of the University and, in particular, to teaching and research in the field.
14. Contribute effectively to Institute administration and peer collaborations through Institute structures.
15. As an academic leader and senior researcher within the institution, be responsible for the coaching, support and development of other academic colleagues who are currently engaged in research or those who wish to develop their skills and abilities in research methodologies and techniques.
16. Develop income generation opportunities within field of research, allowing for peer engagement, nationally and internationally and building on the research portfolio and available resources for future projects and activities.
17. Engage in teaching and learning at an appropriate level and supervise M level and PhD level students.

Other Requirements

As a senior post holder, you will demonstrate professionalism, technical competence, excellent interpersonal and networking skills, and the ability to work independently as required. You will lead and act as role model for the University's values and leadership behaviours and be an integral part of delivering the University's equality, diversity, and inclusivity priorities.

You will always operate within established University regulations and procedures and will need to demonstrate an understanding of the needs of a large, complex, multi campus University.

On occasions and in line with operational needs you will be required to travel to other campuses and sites, nationally or internationally.

As a senior post holder, you will be expected to work flexibly in discharging duties. The normal working week is defined in the contract of employment but because of the nature of the post, you will be required to work flexibly and for such hours as are necessary to fulfil the responsibilities of the post.

It is the University's intention that this job description is seen as a guide to the major areas and duties for which the post holder is accountable. However, the business will change, and your obligations will vary and develop. This job description should be seen as a guide and not as a permanent, definitive, and exhaustive statement.

Person Specification**Qualifications, knowledge and experience**

A relevant first and postgraduate degree.

Record of academic leadership and development, in higher education and/or research, in area relevant to the Institute.

High personal academic and/or professional standing in an area relevant to the Institute, in terms of subject credibility.

A research profile, supported by outputs and research income including grants as relevant to the role, that indicates leadership in the field.

Experience of leading and enabling high quality research, enterprise, and engagement, with a strong commitment to relevance and impact.

Experience of leading the achievement of high-quality learning and teaching with a strong commitment to enhancing the student experience.

Substantial experience of effective people and project management across multidisciplinary groups.

Proven experience of developing and delivery of partnerships with businesses and other employers.

Higher education teaching qualification / membership of the Higher Education Academy and membership of a professional institution.

Key competencies

Develops and maintains a portfolio of research and engagement activities that develops excellence in the relevant subject area(s).

Leads on development of the subject, particularly but not limited to research and engagement.

Ability to work collaboratively with the Senior Management Team of the Institute and wider University to ensure the strategic development of the Institute and University.

Able to effectively present to and facilitate influential groups both within the University and externally. Influences outcomes.

Ability to build and expand networks and partnerships, within the Institute and University, as well as externally, to achieve strategic and operational objectives.

Evidence of promoting and celebrating a vibrant and inclusive culture and academic community, which is informed and enriched by learning and teaching, an outstanding student experience, research, enterprise, professional practice, and pedagogic expertise.

Digital capabilities as outlined by the [JISC Educator role profile](#)

Other

Commitment to the strategic plan and values of the University especially in relation to equality of opportunity at work, a healthy and safe working environment and the expected behaviours of an effective leader.