

**Job Description: 2x Lecturer in Computer Science (Research)**

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| **College/School:** | College of Science |
| **Department/Subject:** | Department of Computer Science |
| **Salary:** | £34,804 to £40,322 per annum with USS benefits |
| **Hours of work:** | Full time – 35 hours per week |
| **Contract:** | This is a permanent position |
| **Location:** | This position will be based at the Bay Campus |

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| **Introduction** | Swansea University’s vision is to transform lives and futures by providing an outstanding academic environment with a balance of excellence between world-class research and teaching, driving impact that is enabled by effective regional and global collaborations.  The role provides a very exciting opportunity to join an ambitious and highly regarded UK Department of Computer Science, located on a beautiful beachfront campus in the city of Swansea. Computer Science has recently moved into a new building, the Computational Foundry, offering excellent research opportunities including brand-new, state-of-the-art labs. Swansea is a coastal city that is both picturesque and cosmopolitan, offering an excellent quality of life. Our stimulating, multidisciplinary environment enables and inspires excellence. |
| **The Role** | An exciting opportunity has arisen for academics with excellent research to join Swansea University’s Top 20 UK ranked Department of Computer Science, which is part of the College of Science. The department has recently been awarded an EPSRC Centre for Doctoral Training in Enhancing Collaborations and Interactions with Data Driven and Intelligence enabled systems ([people-first.best](http://people-first.best)) that will train the next generation of research and innovation leaders in human-centred approaches.  The Department welcomes applications from early career academics with a developing portfolio of research that has the potential to play a role in the future development of the discipline. The post involves teaching and supervision in Computer Science at both undergraduate and postgraduate level; and requires commitment to enhancing the student experience.  We would be delighted to hear from interested parties who are pioneering new techniques and addressing new problems in any of our areas (<https://www.swansea.ac.uk/compsci/research-and-impact/>), in particular visualization, machine learning, security and HCI. We are very interested in strengthening our expertise in Software Engineering, addressing opportunities around Industry 4.0. At this time, we are particularly seeking applications from candidates who will resonate well with our current major activities, in particular the Computational Foundry and our new CDT. We are welcoming applications from candidates with expertise in applied / experimental aspects.  The successful candidates will benefit from state-of-the-art research labs in the new Computational Foundry building, including many laboratories such as Future Interaction Technology lab, Internet of Things lab, Legacy lab, Makerlab, Security lab, Theory lab, UX lab, Vision and Biometric lab, Visualization lab, and extensive space for PhD students.  These posts will contribute to the Computational Foundry. The Computational Foundry has been part-funded by the European Regional Development Fund through the Welsh Government and Swansea University. The Computational Foundry will make Swansea a beacon for Computer Science, attracting and retaining world class researchers, building up talented future scientists who will innovate, challenge and disrupt based on a profound scientific education.  A tall building in a city  Description automatically generated A group of people in a room  Description automatically generated  Informal enquiries are welcome and should be directed to Professor Arnold Beckmann, Head of Department of Computer Science, [A.Beckmann@swansea.ac.uk](mailto:A.Beckmann@swansea.ac.uk), or Professor Matt Jones, Head of College of Science, [Matt.Jones@swansea.ac.uk](mailto:Matt.Jones@swansea.ac.uk). |
| **Background information** | The *College of Science* is research intensive and internationally focused. Its research is organized through academic disciplines, research centers and institutes, and major projects, all supported by superb research facilities and a thriving research culture. It has a wealth of expertise in biosciences, chemistry, computer science, human geography, physical geography, mathematics, physics, and pure and applied ecology. It produces agenda-setting research of the highest caliber. Building on its recent successes in the REF and the teaching evaluations, the College is focused on an ambitious Science2020 strategy that will make Swansea the most creative place to do science, globally.  UK Computer Science is very strong in global terms and is a magnet for outstanding staff and students. The *Computer Science Department at Swansea University* is highly ranked for both teaching and research: The Times Good University Guide 2019 placed it 7th in the UK and 1st in Wales; the Guardian University Guide 2019 placed it 22nd in the UK and 1st in Wales; the National Student Survey 2018 ranked it as 8th in the UK with 91% overall satisfaction, and 1st in Wales; and in the Research Excellence Framework (REF) 2014 it was ranked 18th in the UK and 1st in Wales. Computer Science has embarked on a £31M programme of work – the Computational Foundry – to make Swansea a beacon for Computer Science, attracting and retaining world class researchers, building up a talented future workforce who will innovate, challenge and disrupt. The Computational Foundry building comprises nearly 7,500 m2 of purpose-built Computer Science facilities on the recently opened £450M Bay Campus. It provides a purpose-built set of labs and innovation spaces as well as teaching laboratories and spaces. The Department has longstanding major projects in engaging with business, education and civic society. Currently, our Technocamps Unit is a driving force for educational reform in computing in Wales. We provide industrial education through the Institute of Coding in Wales which is led by us. The department houses one of the UK’s six RCUK funded Digital Economy Centres CHERISH-DE. Both the Foundry and CHERISH-DE have played a role in making the case for the £1bn Internet Coast City Deal signed in March 2017. The City Deal will see South West Wales become a vibrant test-bed for next generation approaches to health and wellbeing, smart manufacturing, energy sustainability and digital economy services, all underpinned by computational innovations. |
| **Academic Career Pathways** | The Academic Career Pathways (ACP) scheme is designed to ensure that academic strengths whether in research, teaching, the wider student experience, leadership or innovation and engagement, are all appropriately recognised, developed, valued, and rewarded. There are three enhanced academic strands: Enhanced Teaching and Scholarship; Enhanced Research; and Enhanced Innovation and Engagement.  For more information on Academic Career Pathways, please click [here](https://www.swansea.ac.uk/personnel/current-staff/academic-career-pathways/). These provide indicative performance levels for all academic staff which will be used throughout the recruitment process. Where there are numeric indicators these will be considered in light of the stage of career, hours of work and other commitments. This may be personal circumstances or work related activities outside of academia such as in industry or a clinical setting. You are very welcome to provide any relevant individual circumstances such as career breaks, any periods of leave or secondment or any other absences, which should be taken into account and how these have had an impact on your career development.  ***This position will align to the Enhanced Research career pathway.*** |
| **Main Purpose of Post:**  **Enhanced Research** | 1. Research Outputs and Activity: Develop and disseminate research outputs in quality publications or other media. 2. Research Projects and Grants: Secure resources to underpin research activity and responsibility for designing, planning and managing a sustained programme of research and of conducting original investigations within agreed timescales and budgets. 3. Esteem: Recognition for contribution to the discipline through making a personal contribution on research developments. 4. Postgraduate Research Student Supervision and Development: Responsible for effective postgraduate research student supervision. |
| **Management** | 1. Contributing to our Activities: Take part in formulating College or University decisions and contribute to activities beyond the immediate research, teaching or scholarship commitments. 2. Participating in Professional Activities: Engage with professional activities related to the discipline through networking at conferences or involvement in external groups. 3. Managing Self and Others: Support and enable the development of colleagues, students and/or yourself. |
| **Teaching and Scholarship** | 1. Teaching Delivery and Review: Effective delivery of teaching, assessment and quality assurance of modules or other equivalent components of the taught portfolio. Review course content and materials, and develop, design and update materials in compliance with quality standards. 2. Teaching Innovation and Impact: Teaching practice based innovation which is up to date and informed by research or professional practice. 3. Advancing Practice: Responsible for advancing personal teaching practice. |
| **General Duties** | 1. Promote equality and diversity in working practices and maintain positive and collaborative working relationships 2. Conduct the job role and all activities in accordance with safety, health and sustainability policies and management systems, in order to reduce risks and impacts arising from the work activity 3. Ensure that risk management is an integral part of any decision making process, by ensuring compliance with the University’s Risk Management Policy. |

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| **Person Specification Criteria** | **Typically evidenced by:** |
| **Qualifications** | |
| 1. A PhD in a relevant subject area or a postgraduate degree and relevant professional experience or qualification | *Chartered membership of professional body, Medical registration etc.* |
| 1. Recognised teaching qualification or equivalent or a commitment to achieve this | *If you do not have a recognised teaching qualification then evidence is required of a commitment to work towards Fellowship of the Higher Education Academy (HEA) or equivalent.* |
| **Enhanced Research** | |
| 1. A record of research outputs and dissemination in quality publications or other media. | *Four internationally excellent outputs, or the ability to achieve this within a 5 year period.* |
| 1. Demonstrate the potential to achieve, or having success in securing resources to underpin original research activity. | *Applications for research grants as a Principal or Co-Investigator or demonstrate how you will achieve this with at least one successful award within 3 years.* |
| 1. Recognition for contribution to the discipline. | *At least one presentation at a conference with a national or international reach within 3 years.* |
| 1. Evidence of demonstrating involvement in effective postgraduate research supervision, or the ability to do so. | *Supporting and or mentoring students or others* |
| **Core Teaching** | |
| 1. Evidence of or ability to undertake effective delivery of teaching, assessment and review of modules or other components of the taught portfolio. | *- A good teaching feedback and/or through improved progression or retention*  *- Acting as an effective tutor or student project supervisor with successful outcomes.*  *- A commitment to innovative teaching and CPD* |
| **Core Management** | |
| 1. Taking an active part in decisions and activities in an academic unit or institution, beyond own research and teaching commitments. | *Examples showing personal contribution and impact.* |
| ***Subject Specific*** | |
| 1. Evidence of excellent research in the applicant’s field of specialisation. | *Application/CV.* |

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