APPOINTMENT OF
LECTURER/ SENIOR
LECTURER/ READER -
GLASGOW SYSTEMS SECTION
(equivalent to Assistant or Associate Professor)
Welcome to the University of Glasgow
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Welcome to the University of Glasgow

Inspiring people in Scotland and the world since 1451

We have been at the forefront of inspiring people in Scotland and across the globe since 1451 in the discovery and sharing of knowledge that can change the world through outstanding teaching, world-class research and creating impact for society and the economy through innovative engagement. We are the fourth oldest university in the UK after Oxford, Cambridge and St Andrews.

Our strategic plan Inspiring People Changing the World (2015-2020) sets out our ambition to be a world-class, world-changing university building on our current strong academic and financial position, and further growing our excellent international reputation.

Over 25,000 students attend the University and we have 7,000 members of staff, an annual research income of more than £181 million, and an excellent international reputation.

We are a member of the UK’s Russell Group of Universities, which represents 24 leading UK universities which are committed to maintaining the very best research, an outstanding teaching and learning experience and unrivalled links with business and the public sector. We are also a founding member of Universitas 21, an international grouping of universities dedicated to setting worldwide standards for higher education.

We are inspiring people. Together we can inspire others. Together we can change the world.
The School of Computing Science at the University of Glasgow is a recognised hub of research excellence and provides a stimulating and supportive environment. In REF2014 the School was ranked 10th in UK computer science departments by volume, and 6th on research intensity. It is top ranked in Scotland for impact with 68% world-leading and 32% internationally excellent.

The GLAsgow Systems Section (GLASS) is one of four major research sections within the School and researches parallel and distributed systems, networked systems and (safety-critical) software systems. It is led by Professor Phil Trinder. We have a strong focus on real-world systems, and cover all scales and across the hardware-software spectrum. We contribute to, develop and release open source research software.

The section is ideally positioned to undertake systems level Edge Computing research, which impinges on the research groups within the section, namely:
- **GPG: The Glasgow Parallelism Group** (led by Phil Trinder)
- **Networked Systems** (led by Colin Perkins)
- **Systems Engineering** (led by Tim Storer)

Much of the research we undertake is collaborative and has industrial partners. We work closely with other groups in Computing Science as well as other schools including Engineering. We also work closely with other world leading Universities and many private and public sector organisations (recently: Airbus, Cisco Systems, EDF, Ericsson, GCHQ, IETF, Microsoft Research, NASA).
A major technological and social shift is to deploy and exploit a global ubiquitous computing fabric in the form of cloud computing, the Internet of Things, and other massively distributed cyber-physical systems. In this fabric computation must be undertaken at the edges to minimise network communication and application latency. The School has research strengths in the systems level support for this infrastructure, and particularly in engineering new distributed systems and networking technologies.

In this context the job purpose is to develop, lead and sustain research of international standard in systems level Edge Computing; to actively engage in teaching at undergraduate and/or postgraduate level and to play a role in developing and executing School strategy, management and organisation.

For appointment at Grade 8 you will in addition:
Develop, lead and sustain research of international standard in systems level Edge Computing particularly through vigorously pursuing opportunities to generate income and publish.
Main Duties and Responsibilities

**Please note, this is the job description for the Lecturer role at Grade 7/8. You can view the full job description and criteria for Senior Lecturer/Reader (Grade 9) at www.glasgow.ac.uk/jobs, searching for ref. 019892.**

Please specify which position(s) you wish to be considered for on your cover letter.

- Develop internationally leading research activity in Systems level Edge Computing.
- Develop a portfolio of individual and/or joint research projects and secure the funding required to underpin the long-term growth of the research activity.
- To enhance the research programme of the research group/specialism by playing leadership role in developing and implementing group/specialism strategy.
- Develop significant high quality output of research publications in leading international journals and presentations at national and international conferences, enhancing the reputation, profile and esteem of yourself and the School/College/University.
- Supervise research students and staff and ensure their effective development, as appropriate.
- Play a significant role in the Glasgow Parallelism (GPG), or Networked Systems, Research Group, and within the within the Glasgow Systems Section (GLASS) and School. Contribute to developing research across the College and University.
- Participate fully in assessment and examination processes using a variety of methods, as appropriate, and provide feedback to students that is relevant, timely and supports their learning.
- To contribute to the work of national and international Research Councils and similar bodies at an appropriate level.
- To engage, when appropriate, in the dissemination of advanced research through commercialisation, technology transfer, outreach etc.
- Engage in professional development activities as appropriate and in external academic and professional activities to enhance the reputations of the School/College/University.
- Contribute to the management and organisational duties of the School, as allocated by the Head of School.

For appointment at Grade 8:

- Develop, lead and sustain internationally leading research activity in Systems level Edge Computing.
- Lead/contribute to the planning, organisation and delivery of undergraduate and/or postgraduate teaching activities within the School.
- Lead/contribute to the on-going development and design of undergraduate and/or postgraduate curricula, in a manner that supports a research-led approach to student learning.
- Contribute to the ongoing development and design of undergraduate and/or postgraduate curricula, in a manner that supports a research-led approach to student learning.

These key tasks are not intended to be exhaustive but simply highlight a number of major tasks which the staff member may be reasonably expected to perform.
Knowledge/Qualifications, Skills and Experience

Knowledge

Essential
A1 A good first degree in a relevant discipline
A2 A PhD or equivalent in Computing Science or related discipline
A3 A comprehensive and up-to-date knowledge of current issues and future directions within the wider subject area or subject specialism
A4 An established reputation in an internationally competitive field of research within Systems level Edge Computing that matches or enhances existing research themes within the School
A5 A track record of systems research, and research interests that complement some of our existing research strengths in parallel and distributed languages and systems, high performance computing, software-defined and data centre networks, and Internet transport protocols

Skills

Essential
C1 Ability, drive and organisational skills to secure research grant funding, lead a research team and develop an international research profile
C2 Research creativity and strong cross-discipline collaborative ability
C3 Ability to teach effectively at undergraduate and/or taught postgraduate level
C4 Excellent Team Leadership skills including demonstrable supervisory skills
C5 Appropriate workload/time/project/budget/people management skills
C6 Excellent interpersonal skills including team working and a collegiate approach
C7 Excellent communication skills (oral and written) in appropriate range of contexts
C8 Problem solving skills including a flexible and pragmatic approach
C9 Self motivation, initiative and independent thought/working
C10 Ability and willingness to take on appropriate administrative duties within the School
C11 A commitment to high quality, research led, student orientated teaching
C12 Leadership, influencing and facilitation skills
C13 Ability to provide strategic contribution at subject or School level

Experience

Essential
E1 Minimum of 3-5 years postdoctoral research experience in relevant area
E2 Established track record of publications of international quality
E3 An excellent track record of development and delivery of teaching, tutoring or demonstrating at undergraduate or postgraduate level
E4 An established track record of successfully applying for and securing research funding either as Lead or Co Investigator
E5 Experience of research collaborations at national and/or international level
E6 An excellent track record of contributing to the development, organisation and delivery of research activities and projects
E7 Evidence of significant esteem and independence in research
E8 Proven ability to present research results at international workshops and conferences
E9 An excellent track record of performing administrative duties in a research led institution

www.glasgow.ac.uk/computing/glass
**Dimensions**

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<th>Typical Performance Standards</th>
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| • Design and lecture on equivalent of 2 courses in undergraduate or postgraduate programmes; carry normal project supervision load.  
• One or more REF-quality papers per annum  
• Apply for external research funding on average twice per year  
• Supervise at least two research students  
• To develop research capability and carry out a range of research activities and functions within academic environments of the highest national or international quality  
• Publish and seek funding as appropriate to subject specialism within agreed timescales  
• Manage research grants as principal investigator or co-investigator as appropriate  
• Develop and deliver courses at undergraduate and postgraduate level in accordance with a fair distribution of School workload  
• Engage in personal, professional and career development to enhance both specialist and transferable skills in accordance with desired career trajectory  
• Leadership and collaboration in research/teaching/administration activities as appropriate  
• Individual or co-supervision of research students  
• Administrative tasks as assigned by Head of Group/Subject/School  
• Contribute to public engagement, outreach and recruitment, and knowledge exchange and impact activities as appropriate  
• Contribute to the emergence and delivery of the School’s strategic objectives  
• Contribute to national and international research developments through membership of appropriate committees and review panels for research councils and similar bodies | • Management of time and prioritisation of research, teaching and administrative duties  
• Planning, organisation and implementation of research, teaching and administrative duties on a weekly/monthly basis  
• Long term strategic development of research and teaching plans and capabilities  
• React to varying project needs and deadlines  
• Bring issues to the attention of the relevant committees on behalf of self and others. Act on outcomes as necessary, in terms of school policy and provision |

**Decision Making**

• Strategic decisions on research directions.  
• Decisions on grant submissions, including development of collaborative activities.  
• Choice of journals, conferences and other media for dissemination of research outcomes.  
• Experiment design and choices of experimental equipment and techniques.  
• Curricula, intended learning outcomes, course content and assessment methods for undergraduate and taught postgraduate courses.  
• Responsibility for organisation and use of resources (including financial), as appropriate.  
• Prioritise own work  
• External involvement including collaborations, refereeing applications and papers, journal editorial ships  
• Prioritise work in accordance with Group/School/College objectives
Internal/ External Relationships

**Internal**
- Head of School and School Management Team members: for exchange of information, regarding research and KT strategy, learning and teaching strategy.
- Academic colleagues: for information exchange to facilitate effective research and teaching.
- Undergraduate and postgraduate students: to optimise student learning.
- Research students and research/support staff: to supervise, advise and motivate.
- Administrative staff within School, College and University Services (e.g. Research & Enterprise, Finance, Human Resources, and Registry): for exchange of information and appropriate advice relating to grant applications, finances, research staff appointments, student progress and support, etc.

**External**
- Researchers at other universities or organisations to develop and maintain national and international research collaborations and advance the development of the subject.
- Research funding bodies to maximise potential for research funding.
- Scientific or professional organisations to maintain external links, publish and undertake academic/professional activities.

**Problem Solving**
- Research including technical, experimental and theoretical aspects, problem solving and development of novel ideas.
- Project Design, Research direction and grant winning.
- Budgetary issues including lead times.
- Assistance of undergraduate/postgraduate students and junior team members with problems relating to research projects and the student experience.

**Other**
- Representation of the University/College/School through presentation at national and international events.
- Attendance at training events to learn and implement new research technologies.
- Prepared to travel to work in the UK/Europe and elsewhere as required by the University.
Effective leadership at Glasgow is essential to achieving our vision of a world-class, world-changing university, as set out in our strategy, ‘Inspiring People Changing the World.’

The Leadership Behavioural Framework describes the leadership behaviours for all University leaders in the delivery of our strategic objectives.

Applicants should familiarise themselves with the framework available to download at www.gla.ac.uk/media/media_453130_en.pdf prior to submitting an application.
Our Mission and Values

Our mission is to undertake world leading research and to provide an intellectually stimulating learning environment that benefits culture, society and the economy.

We have three main values which define the way we work:

Passionate

We are:
- Creative, curious and deeply committed to the pursuit and sharing of knowledge.
- Dedicated to our students, actively seeking to develop their skills, knowledge, understanding and sense of citizenship.
- Ambitious, adventurous and confident, with the courage to accept and balance the risk of failure with reward in the pursuit of progress.

Progressive

We believe that:
- We have a social and environmental responsibility to undertake our work in an ethical and sustainable manner.
- Studying at our University should be possible for anyone with the necessary talent, commitment and potential, regardless of background or belief.
- We should use our work to benefit and enhance Glasgow, the West of Scotland and the global community wherever possible.

Professional

We are committed to:
- Striving for excellence in everything we do, undertaking our work with pride and care, and offering the very best service to our students, customers, partners and colleagues.
- Embracing diversity and difference and treating colleagues, students, visitors and others with respect.
- Sharing our work openly and actively, seeking out opportunities to collaborate with our local and international partners.

Underpinning these values is responsiveness – our commitment to responding to the needs of their colleagues, students, research funders, sponsors and visitors in a helpful, timely and sensitive manner.
Our University is one of the world’s great research-intensive universities. Over the last few years we have made great strides in our performance.

Our financially sound position means that we have created the exciting opportunity to further invest in our estate. This will enable us to embed new technologies, transform the way we work and improve our interactions with each other, our students and our partners. Our Strategic Plan sets out our ambition to build on our current strong position and become even better. Our Strategy provides the support, development, infrastructure and environment needed to grow our reputation and realise our ambitions:

- a place where the best students, regardless of background, are given an education that prepares them to go into the world and make change happen;
- a place where research that positively impacts on the health, wealth and cultural wellbeing of the world is conducted;
- a place that engages with the city of Glasgow and the global community and ensures that they flourish.

To achieve these aims, we focus on three key areas:

- **People** – bringing inspiring people together
- **Place** – creating a world-class environment for learning and teaching
- **Purpose** – discovering and sharing knowledge that can change the world.

To read the full University Strategy *Inspiring People Changing the World* please see: www.glasgow.ac.uk/explore/strategy/
Our Vision
Over the next 10 years, the £1billion investment will expand our campus footprint by 25%, creating a new urban quarter with the University at the heart of a revitalised west end. This is the largest development since the creation of the original campus in 1870.

This is a unique opportunity for a University to extend the boundaries of its historic core in a central city location. It will create:
- New learning and teaching facilities,
- Refurbishment and repurposing of existing iconic buildings for specialist uses
- Identification and design of social spaces that support the student and community experience.

Campus Masterplan
The expansion of our Gilmorehill campus into the 14 acre, former Western Infirmary site will transform the West End of Glasgow. The Masterplan for the site will incorporate;
- New learning and teaching facilities supporting our students and making sure they get the best in modern teaching and learning styles and approaches.
- Creation of a Research Hub, housing large-scale multidisciplinary projects and incubator space for spin out collaborations with industry. This will encourage further innovation development.

- New public cycle and pedestrian routes and a new central square which will link Byres Road to the up-and-coming cultural quarter for the West End, with new links to Kelvingrove and the newly-refurbished Kelvin Hall.
- Refurbishment of five listed buildings; - The Chapel, the Outpatients building, the Macgregor building, the Tennent Institute and Anderson College.
- Commercial opportunities, including a hotel, restaurant, bars and cafes.
- The masterplan will be delivered in a phased approach over 10 years, key projects for the University on the former Western Infirmary site include new buildings for the Institute of Health and Wellbeing, the School of Engineering, Adam Smith Business School, College of Arts and a Centre for Chronic Disease.

You can find out further information on our Campus Masterplan, and on some of the specific sub-projects including our Learning and Teaching Hub, on our website at www.gla.ac.uk/explore/campus/.
How to Apply

Terms & Conditions
Role is available at either Grade 7, 8 or 9 depending on candidate experience. The following salary ranges apply: £34,520 - £38,833 (Grade 7) / £42,418 - £49,149 (Grade 8) / £50,618 - £56,950 (Grade 9)

New entrants to the University will be required to serve a probationary period of 6 months.

The successful applicant will be eligible to join the Universities’ Superannuation Scheme. Further information regarding the scheme is available from the Superannuation Officer, who is also prepared to advise on questions relating to the transfer of Superannuation benefits.

How to Apply
To apply, please visit www.glasgow.ac.uk/jobs and search for vacancy reference 019892. The closing date is 28 February 2018.

Find out more at www.glasgow.ac.uk/computing/worldchangerswelcome

It is the University of Glasgow’s mission to foster an inclusive climate, which ensures equality in our working, learning, research and teaching environment.

We strongly endorse the principles of Athena SWAN, including a supportive and flexible working environment, with commitment from all levels of the organisation in promoting gender equity.