

RECRUITMENT PACK

This document includes the following information:

- Job Description
- Person Specification
- Additional information

Making an application:

Please complete the short on-line application form and attach the following 4 documents:

- a) A covering letter setting out how you meet the requirements of the role as set out in the person specification.
- b) A full curriculum vitae (CV) including any publications. You should specify your 4 most significant papers published within the past 5 years (or an equivalent number appropriate to being an early career researcher). Applicants from within the UK should indicate which publications have been submitted to the REF 2014 and any assessment of the rating for each piece of work; For more information about the REF visit www.ref.ac.uk
- c) For posts at salary grade 9-11, a research statement of no more than two sides of A4 providing details of your research plans for the next three years. This should include details of books, chapters or papers in progress together with planned publication dates. For journal articles please provide details of target journals and planned submission dates. If you have papers that are currently under review please detail the stage these have reached and the timescale you expect those papers to be accepted for publication. If you have papers that have been accepted for publication but not yet published please provide the date the paper was accepted for publication.
- d) For posts at salary grade 9-11, please include a document of no more than two sides of A4 setting out your three year plan for generating external funding to support your research.

Shortlisting is undertaken by a panel after the closing date on the basis of information provided and failure to upload the requested documents will result in an application being rejected.

We recommend that you take a copy of this recruitment pack to help with your preparation.

The University of Essex is proud to be part of the Disability Confident scheme and is committed to supporting diversity and equality, representative of our inclusive community. As part of our commitment to this scheme any candidate who has a disability and meets all the essential criteria for the role will be offered an interview. We also work in partnership with national disability organisation DisabledGo who provide detailed online access guides to many of our campus buildings and facilities which you may find useful.

Please note: We are only accepting on-line applications for this post. However, if you have a disability that makes it difficult for you to provide us with information in this way, please contact the Resourcing Team (01206-874588/873521/873461) for help.

Closing Date: 31 October 2018

Interviews are planned for: the week starting 12 November 2018



















UNIVERSITY OF ESSEX JOB DESCRIPTION

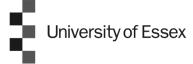
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Job Title and Grade:	Senior Research Officer (ASR); Grade 8	
Contract:	Fixed term 24 months from January 2019 to 31 December 2020. This post is fixed-term due to a temporary funding source.	
Hours:	A notional minimum of 36 hours per week hours	
Salary:	£33,199 per annum	
Department/Section:	Computer Science and Electronic Engineering	
Reports on a day-to- day to:	Principle Investigator of the project	
Responsible to:	Head of Department (HoD)	
Purpose of role:	The successful candidate will contribute to the EU H2020 SerIoT which is proposing new mechanisms to optimise the security in IoT platforms and the networks that support IoT platforms. In particular, the role will be investigating the security and resource provision of Fog computing within the SerIoT platform. The successful candidate will be expected to have the skills and knowledge in the areas of networks, network security and resource optimisation. Furthermore, the successful candidate must be able to: contribute towards the platform development which includes cloud/fog based control and deployment; and, manage the project testbed, hosted at the University of Essex.	

CONTEXT

The University of Essex, and in particular the Network Convergence Laboratory in the School of Computer Science and Electronic Engineering, has a strong background in computer networks and providing research testbeds for multi-partner projects. The SerIoT project is a one such multi-partner project that will be developing a Europe wide test-bed combining a number of IoT use-cases to demonstrate the security solutions that it is developing. These solutions include novel software-defined networking (SDN) extensions, a secure router, honeypots, policy-based frameworks and secure Fog computing. At the University of Essex, we are responsible for the testbed and the Fog computing which combines theoretical investigation of resource optimisation meeting security constraints with practical development in the areas of networking and security. More information about the SerIoT project is available at https://seriot-project.eu/.

KEY RESPONSIBILITIES OF THE POST

- To engage in individual and/or collaborative research activity resulting in internationally excellent publications that is in keeping with Research Excellence Framework (REF) criteria.
- To contribute to applications for external research funding appropriate in scale to career stage and subject area norms where appropriate.
- To enhance the scholarly reputation of the Department and the University by contact with the wider academic community and supporting knowledge exchange activity.
- To undertake leadership duties related to research appropriate to career stage and as allocated by the HoD.

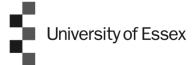


- To contribute expertise and knowledge to departmental and/or institutional initiatives as directed by their Head of Department.
- Propose, evaluate and publish resource optimisation strategies within Fog/Cloud environments that meet security constraints.
- Develop a Fog/Cloud management and control framework that utilises the proposed resource optimisation strategies and which includes security features.
- Manage and maintain the testbed network, provided by the University of Essex and connecting EU-wide project partners

MAIN DUTIES OF THE POST

Research

- To deliver the research objectives defined by the EU H2020 SerIoT grant and research project.
- To undertake or manage practical elements of research such as setting up and conducting experiments, developing questionnaires and conducting fieldwork, recording data and identifying trends or patterns.
- To produce research outputs for publication at acceptable levels of volume and academic
 excellence and disseminate the result of research and scholarship through appropriate
 Knowledge Exchange activities (such as at relevant national and international conferences and
 scholarly publications not intended for the REF).
- To contribute to knowledge exchange activities within the wider academic community and other
 activities designed to ensure that appropriate impact of the research (outside academia) is
 achieved.
- To contribute to the development and maintenance or research resources (examples of which
 include household surveys, databases, specialist equipment and infrastructure, software
 packages and computer models) used within the Department or wider user community external
 to the Department.
 - To, supervise and/or mentor postgraduate research students into relevant communities of research at Essex as appropriate to the departmental context to generate meaningful connections between research and education at Essex.
 - Contribute to project deliverables and manage and review project deliverables that are assigned to the University of Essex by the SerIoT project coordinator.
 - Contribute to the SerIoT project meetings both through teleconferences and meetings within the EU.
 - Manage the SerIoT testbed nodes placed in the University of Essex and coordinate with project partners to enable them to connect to the testbed.



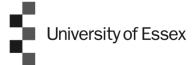
Leadership and Citizenship

- To play an active and constructive role in the Department and engage in activities beyond your own research team, (e.g. open days, staff meetings and relevant committees), as may be reasonably required by the Head of Department.
- To proactively participate in and develop internal and external networks and establish links with relevant academic and professional bodies, contacts and employers.
- To support knowledge exchange activities, for example, by contributing to research projects funded by commerce, industry or public sector organisations.
- To engage in continuing professional development in relevant subjects/disciplines, incorporating the outcomes from research and scholarship, ensuring skills are up-to-date and applied in education and research.

These duties are a guide to the work that the post holder will initially be required to undertake. They may be changed from time to time to meet changing circumstances.

TERMS OF APPOINTMENT

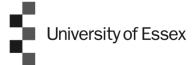
For a full description of the terms of appointment for this post please visit: http://www.essex.ac.uk/hr/current-staff/terms.aspx



UNIVERSITY OF ESSEX PERSON SPECIFICATION

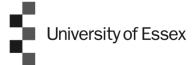
JOB TITLE: Senior Research Officer (ASR); Grade 8 POST REF: REQ01862

QUALIFICATIONS / PROFESSIONAL RECOGNITION		Essential	Desirable
•	Relevant doctoral level degree in Electronic Engineering, Computer Science or equivalent professional experience or practice	Х	
	Fellowship of the Higher Education Academy or the ability to gain professional recognition at this or a higher level if appropriate (delete as appropriate).		Х
EXPERIENCE/KNOWLEDGE		Essential	Desirable
	Evidence of a developing research agenda, engagement in high- quality research activity and a developing research profile.	Х	
•	A developing record of publications in internationally recognised, reputable journals (and other media of similar standing) appropriate to career stage and discipline norms, or evidence of research outputs such as reports and briefings.	Х	
	Experience of, or the ability to, generate income to support research and/or knowledge exchange appropriate to career stage and discipline norms.	Х	
•	Experience of working with developing and/or maintaining research resources used within a Department or wider user community external to the Department (examples include household surveys, databases, specialist equipment and infrastructure, software packages and computer models).	Х	
•	Experience of contributing to small research programmes or defined areas of larger projects, and of developing research objectives and proposals, this could include developing workshops, contributing to research proposals, contributing to project deliverables.	Х	
	Experience with and knowledge of network modelling, protocols, architectures and design.	X	
	Experience with cloud computing.		X
	Experience with and knowledge of Network Security.		Х
•	Experience with Software Defined Networking.		Х
SKILLS/ABILITIES		Essential	Desirable
•	The ability and willingness to engage in knowledge exchange and outreach activities.	Х	
•	The ability and willingness to complement and enhance the research project/department/school's education and research strengths and areas of planned development.	Х	



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•	Strong communication skills, both written and verbal.	X	
•	An appreciation of the value of appropriate technologies in research and an ability and/or willingness to deploy these when relevant.	х	
	A clear understanding of how students learn both generally and within their subject/disciplinary area(s) and the ability to apply this understanding to their own practice.		Х
•	A commitment to the on-going evaluation of their own teaching and an ability to do this effectively, with the support of others where appropriate.		Х
•	Programming in C/C++ or Python and experience with software development tools such as version control systems.	Х	
•	Ability to formulate modules of networks and analyse them	Х	
•	Network programming on a Linux platform		Х
•	Ability to configure and program software defined networking controllers and cloud systems.		Х
PROFESSIONAL VALUES		Essential	Desirable
•	A commitment to helping develop dynamic communities of research and education at the University.	Х	
•	A strong and well-articulated commitment to the University's values and mission to deliver excellence in both education and research (integrated academic practice).	х	
•	A commitment to respect individual learners and diverse learning communities and to promote participation in higher education and equality of opportunity for all learners via student-centred practice.	Х	
•	A commitment to using evidence-informed approaches and the outcomes from research, scholarship and continuing professional development in their academic practice.	х	
	An acknowledgement of the wider context in which higher education operate.	Х	
	oporate.		
•	A willingness to participate in extra curricula departmental activities (e.g. supporting recruitment, welcome and employability).	Х	
EL	A willingness to participate in extra curricula departmental activities	X Essential	Desirable
EL	A willingness to participate in extra curricula departmental activities (e.g. supporting recruitment, welcome and employability).		Desirable

^{*} The University has a responsibility under the Asylum, Immigration and Nationality Act 2006 to ensure that all employees are eligible to work in the UK. Prior to commencing employment, the successful candidate will be asked to provide documentary evidence to this effect. The University may be able to offer Tier 2 Sponsorship for this role. For further information about UK immigration requirements please follow this link https://www.gov.uk/government/organisations/uk-visas-and-immigration



ADDITIONAL INFORMATION

Department

You can find more information about the department at the following link:

https://www.essex.ac.uk/departments/computer-science-and-electronic-engineering

People Supporting Strategy

Please find a link to the People Supporting Strategy.

https://www.essex.ac.uk/-/media/documents/directories/human-resources/people-supporting-strategy.pdf

General information

Informal enquiries may be made to Dr Martin Reed (telephone: 01206 872479, e-mail: mjreed@essex.ac.uk). However, all applications must be made online.

At the University of Essex we use consistent language and terminology that articulates more clearly the responsibilities for education, research and leadership/citizenship associated with each academic role. This will help new colleagues to understand the University values from the moment they engage either as an applicant or new colleague, and help them to understand the future career pathways available to them as they become more established in their role.

We advertise our salaries on a range to indicate the trajectory of progression that can be made. Appointments are usually made at the start of the salary range. The university salary structure includes automatic pay progression within the published grades, subject to service and performance. In addition to this, there are performance related annual pay review schemes in place.

Benefits

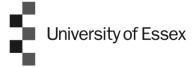
As an employer we offer a range of benefits and a commitment to career development and equal opportunities in an environment that both reflects and creates a rich interaction of people, disciplines and ideas.

- Pension scheme
- Generous holiday entitlement
- Competitive salaries
- Training and development Family Friendly policies
- On campus childcare facilities, for more information visit www.wivenhoeparkdaynursery.co.uk
- Childcare vouchers
- Relocation package for qualifying staff
- Interest free season ticket loan
- Range of optional salary exchange tax benefits (pension, childcare and bicycle schemes)

This document is produced by:

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Tel: +44 (0)1206 873521/874588/873461
MONTH/YEAR