Research Institute in Trustworthy Interconnected Cyber-physical Systems

Quarterly Update

January 2019

Project and Research News

Open Call

The four funded Open Call projects (from De Montfort University, Queen's University Belfast, the University of Glasgow and City University London) are just getting underway this month. The Glasgow project has its kick-off meeting at Imperial College on Friday 11th January 2019.

NIS Directive call

The three NIS Directive call projects (from the University of Glasgow, University of Birmingham and the University of Bristol) got underway in November 2018. The first progress reports will need to be submitted by 14th April 2018.

The next RITICS call for proposals is not expected until Summer 2019.

Opportunities

Research Associate vacancy in RITICS at Glasgow University

Optimising Forensic Training in Safety-Related Industrial Control Systems

https://www.jobs.ac.uk/job/BOM337/research-associate

Closing Date:
31 January 2019

Job Purpose:
To make a leading contribution to a project funded by NCSC and the EPSRC Research Institute in Trustworthy Interconnected Cyber-physical Systems (RITICS). The candidate will look at Developing Pedagogy that Optimises Forensic Training in Safety Related Industrial Control Systems working with Professor Chris Johnson, Head of Computing, University of Glasgow. Specifically, the job requires expert knowledge of cyber forensics and ideally some understanding of industrial control systems. The successful candidate will also be expected to contribute to the formulation and submission of research publications and research proposals as well as helping manage and direct this complex and challenging project as opportunities allow.

Please contact Chris on christopher.johnson@glasgow.ac.uk if you would like further information, or to apply.

[Research Associate in Cyber Security of National Infrastructures](#)

Full information:

https://www.gla.ac.uk/it/iframe/jobs/ (Reference 023913)
Closing Date:
31 January 2019

Job Purpose:
To make a leading contribution to a project funded by the NCSC and EPSRC funded RITICS programme; Establishing a Scientific Baseline for Measuring the Impact of the NIS Directive on Supply Chain Resilience working with Professor Chris Johnson, Head of Computing, University of Glasgow. Specifically, the job requires expert knowledge of cyber security in relation to national critical infrastructures. The role includes close interaction with senior staff in government departments, with regulatory agencies and with the companies that own/operate those systems. The successful candidate will also be expected to contribute to the formulation and submission of research publications and research proposals as well as to help manage and direct this complex and challenging project as opportunities allow.

Recent Events

[WIHST Technical Workshop highlights the opportunities in healthcare cybersecurity](#)

Hundreds of millions of pounds are spent on healthcare technology in the UK every year. Digital health is becoming increasingly important, with the imminent launch of the NHS App, and the advent of Bring Your Own Device in healthcare. To add to this, we have a huge variety of technology in use in the NHS, from MRI scanners, to blood glucose monitors and computerised defibrillators. Often these devices are interconnected. Yet there has been little work done in the field of healthcare cyber security.

The WIHST Technical Workshop was held on 26th November 2018 at Woburn House, London. It brought together technical experts, doctors, and representatives from UK Government and industry, including Chris Ensor of NCSC, Professor Emil Lupu of Imperial College, Professor Payam Barnaghi of the University of Surrey and Robert Fox-River of Accenture. It analysed topics ranging from personalised medicine to integrated health records, assisted living,

robotics and virtual GP systems. And it highlighted the cyber risks of all this technology in healthcare, and the opportunities for research into healthcare cyber security.

The workshop demonstrated the growing cyber-threat in the NHS, and the clear need for research into cybersecurity in healthcare, focussing on both the technical and social aspects. A report summarising the discussions that took place in WIHST will be published shortly.

[National Cyber Security Centre runs successful event for the Industrial Control Systems Community of Interest](#)

Over 150 people drawn from industry, government and academia came to the first Industrial Control Systems Community of Interest event, held at Nova South, London on 20th November 2018. A keynote talk from cybersecurity company FireEye highlighted the ingenious techniques that criminals and state actors use in launching cyber-attacks. They described a detailed forensic analysis of one such attack, called Triton.

There was also a talk from the Health and Safety Executive that described how they are now beginning to formulate detailed security audits. And Kevin Jones from Airbus explained practical techniques his company were using to protect against cyber-crime. There were also several 'snappy chats' about specific aspects of cyber-security in industrial control systems.

Forthcoming events

[Conference about cybersecurity in industry to take place in Leicester](#)

Location: De Montfort University, Leicester
When: Thursday 28th February 2019

As part of the De Montfort University CyberWeek, RITICS is running a one-day conference entitled 'Cybersecurity in Industry'.

This event will include a keynote talk from NCSC and also from Chris Mobley of BlueSkyTec on cybersecurity in space, plus highlights from both the first and second phases of the RITICS Programme, and talks on some of the cutting-edge cybersecurity research taking place at De Montfort University.

There will also be a panel discussion about how we can make cybersecurity a service, and how we can make best use of the Cloud, and a demonstration of Queen's University Belfast's latest Microgrid Testbed.

If you would like to attend this free event, and gain a unique insight into the world-class research being undertaken by the RITICS Programme, please register here:

https://www.eventbrite.co.uk/e/cybersecurity-in-industry-tickets-53095465968

Please also let us know if you would like to stay on for the networking event that takes place in the evening of the meeting.

RITICS Spring Showcase

Location: National Cyber Security Centre, London
When: Monday 15th April 2019

This is the second meeting of the second phase of RITICS. It will be a one-day meeting where scientists recently funded by the 2018 NIS (Network and Information Security) Directive call and the 2018 Open Call, as well as, more broadly, UK researchers in cybersecurity, will talk about their work.

There will also be 5 minute presentations from doctoral students on the programme, and a panel discussion involving five leading experts, followed by a wrap up by a leading user/industrialist.

Registration will open soon.

Get in touch!

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www.ritics.org