

Post-Doctoral Positions in Cyber Security

Overview: As part of an upcoming project undertaken with the support of the European Commission Horizon 2020 Programme, Athlone Institute of Technology (AIT) (www.ait.ie/sri) is offering two post-doctoral positions in cyber security with a target start date of September 1st 2016 - an earlier start date may be possible based on the selected candidate's availability.

The selected researchers will be responsible for investigating solutions for cyber situational awareness, on the project "Proactive Risk Management through Improved Cyber Situational Awareness" (PROTECTIVE), in co-operation with institutions in Ireland, Germany, the UK, Czech Republic, Spain, Poland, and Austria.

Project Summary and Responsibilities: The goal of the project is to research novel approaches to cyber situational awareness that will enable speedy prioritisation of intrusion detection system and other security alerts for network and enterprise systems. These approaches include developing better methods to correlate security alerts; better ways to share threat intelligence as well as novel ways to associate an organisations mission/business with its computing assets. These improvements will allow the Computer Security Incident Response Team (CSIRT) to significantly improve the risk management process, by focusing on security events that are likely to have greatest impact on the organisations mission and thus adopt a proactive approach to attack detection and mitigation. The project will develop an integrated situational risk management framework that will be trialled on a number of ISP networks.

AIT's research role in the project is seeking new approaches to correlating computing assets with organisational mission, as well as the specification and development of the risk management platform. AIT is, moreover, the project coordinator and is responsible for setting the direction and ensuring the project achieves a successful result. The post-doctoral researchers, along with the other team members, will be responsible for:

- Developing novel solutions for asset/mission correlation
- Implementation and validation of the key research outputs
- Providing input to the design and development of the total project solution
- Assisting the project coordinator with the technical steering and direction of the project
- Preparing publications and technical reports
- Directing and assisting junior members of the team, where needed.

Opportunities for MSc student supervision will be possible.

The positions are for two years (with possibility to extend to three). The salary is commensurate with experience. All travel related to research, workshops and project meetings is covered by the H2020 Programme funding.

Qualifications: Applicants must have an earned PhD in Computer Science with a specialisation in the field of cyber security. Applicants must have a track record of publications in high-quality journals and/or conferences.

Applicants should also possess adequate English language skills e.g. equivalent to IELTS (Academic Format) 6.0 or equivalent (e.g. TOEFL iBT 79), together with the ability to work effectively in a collaborative team.

Applicants with experience in network security, risk management, cyber-physical security, cyber forensics or a related field are encouraged to apply.

Please email all informal enquiries to the Project Director:

Dr Brian Lee - blee@ait.ie

Applications must be submitted using the on-line E-recruitment form which may be accessed under vacancies at www.ait.ie

Salary: Competitive salary (on the Irish Universities Association scale) commensurate with experience and qualifications

Please note:

- In addition to the minimum qualifications, it may be necessary to introduce further shortlisting criteria. Therefore, candidates may be shortlisted on the basis of qualifications and suitable experience, based on details given on the application form.
- **Closing date for receipt of completed application forms:**
May 30th 2016
- **Only on-line e-recruitment application forms will be accepted**



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