

## JOB DESCRIPTION

Research Associate: Security of Cyber-Physical Systems
Vacancy Ref: A1427

Job Title: Research A	ssociate: Security of Cyber-Physical Systems	Grade: 6
Department/College: Security Lancaster Research Centre and School of Computing and Communications		
Directly responsible to:	Professor Awais Rashid	
Supervisory responsibility	or: None	

## Other contacts

# Internal:

Co-Investigators and other researchers within the DYPOSIT and PDil projects, Members of Security Lancaster (academic staff, RAs, PhD students), associate director of business partnerships for Security Lancaster

#### External:

DYPOSIT project partners: Katholieke Universiteit Leuven, Belgium and University College Cork, Ireland; PDil project partner: Nettitude

# **Major Duties:**

- 1. Undertake research and development necessary to achieve the goals of the two projects and Lancaster University's responsibilities within the projects.
- 2. Develop and maintain experimental software platform that provides a front end to the existing industrial control systems testbed at Lancaster for deploying attack scenarios and evaluating the effectiveness of countermeasures.
- 3. Develop protocols for experimentation and contribute strongly to the design and execution of experimental research to study both technical and human responses to cyber-physical infrastructures coming under attack.
- 4. Utilise and configure the testbed with suitable scenarios and configurations for use in experimental work.
- 5. Develop a decision-support software tool to support decision-making about cyber security risks to cyber-physical infrastructures.
- 6. Participation in all project meetings; preparation and presentation of talks, posters and reports to disseminate the results of the projects.
- 7. Preparation of progress reports and project deliverables.
- 8. Participation in national and international conferences and workshops to present the results of the projects to a wider audience and to learn about current advances in the field.
- 9. Preparation of conference and journal papers for publication of project findings.
- 10. Collaborate with project partners and other relevant stakeholders in the context of the project.
- 11. Any other duties appropriate to the grade as delegated by the Principal Investigator.