

JOB DESCRIPTION

Job Title:	Senior Research Fellow in Software Security of E-commerce and Delivery Eco-Systems (ENSURESEC project)	Grade:	AC3
Department:	Computing and Mathematical Sciences	Date of Job Evaluation:	April 2020
Role reports to:	Associate Professor in Cyber Security		
Direct Reports	N/A		
Indirect Reports:	ENSURESEC project partners, Faculty Staff and researchers		
Other Key contacts:			
<p>This role profile is non-contractual and provided for guidance. It will be updated and amended from time to time in accordance with the changing needs of the University and the requirements of the job.</p>			

PURPOSE OF ROLE: This role relates to ENSURESEC, a 10-million Euro H2020 innovation action project. ENSURESEC develops an intermediary-free, open-source solution to two key problems related to security of e-commerce eco-systems: (1) How to protect run-time operations of e-commerce system against cyber and as well as physical threats? (2) How to recover (i.e., resume the operations) from the threats, when detected? This particular role is dedicated to address the former problem.

The specific role relates to developing software security solution that can detect cyber and physical threats to e-commerce application at run-time. This work will be carried out under the supervision of a Senior Lecturer in Cyber Security and mainly in collaboration with the project team at the University of Greenwich.

KEY ACCOUNTABILITIES:

Team Specific:

- To produce techniques for recovery of software threats and to develop a corresponding recovery engine
- To experimentally evaluate the performance and behaviour of the systems developed
- To contribute towards the communication of research findings, by participating in the writing of papers
- To work under the supervision of the lead Researcher
- Communicate regularly with project partners to ensure realism and applicability of methods developed

Managing Self:

- To work in a flexible manner, ensuring research outcomes are met
- Ability to work on own initiative, but to ask when needing support
- To work with others as part of a research team
- Ability to work to deadlines

- Ability to work on own initiative without constant supervision
- Ability to work accurately under pressure

Core Requirements:

- Adhere to and promote the University's policies on Equality and Diversity and Information Security;
- Ensure compliance with Health & Safety and Data Protection Legislation;
- Support and promote the University's Sustainability policies, including the Carbon Management Plan, and carry out duties in a resource efficient way, recognising the shared responsibility of minimising the university's negative environmental impacts wherever possible.
- Travel to European partner institutions for project meetings, as well as national/international conferences.

KEY PERFORMANCE INDICATORS:

- Meeting project deliverable deadlines
- Preparation and publication of research findings in international peer-reviewed journals and conferences

KEY RELATIONSHIPS (Internal & External):**Internal:**

- Senior Lecturer in Cyber Security
- Associate Professor in Cyber Security
- Senior Lecturer in Computer Science
- Senior Lecturer in Disruptive Technologies

External:

- Principal investigators of our ENSURESEC partners

PERSON SPECIFICATION

Essential	Desirable
<p>Experience</p> <ul style="list-style-type: none"> • High-impact research publications in the area of Cyber Security <p>Skills</p> <ul style="list-style-type: none"> • Highly competent software developer • Runtime application security • Software vulnerability/fault detection and recovery • Able to work to strict deadlines <p>Qualifications</p> <ul style="list-style-type: none"> • PhD in computer science, engineering, mathematics or a related topic <p>Personal attributes</p> <ul style="list-style-type: none"> • We are looking for people who can help us deliver the values of the University of Greenwich: Excellence, Determination, Inclusivity, Ambition and Creativity 	<p>Experience</p> <ul style="list-style-type: none"> • Cyber or physical threats • Threats detection • Software recovery • E-commerce security <p>Skills</p> <ul style="list-style-type: none"> • Strong technical writer • Software translation <p>Qualifications</p> <ul style="list-style-type: none"> • Additional certifications in software libraries or cyber security tools development or related areas <p>Personal attributes</p> <ul style="list-style-type: none"> • N/A