JOB DESCRIPTION

Job Title: Research Fellow in Cyber Security and Privacy (Project GANNDALF)

Grade: AC2

Department: FES/CMS

Responsible to: Professor of Cyber Security

Responsible for: N/A

Key Contacts: Research team members, Project GANNDALF partners

Standard Occupational Classification (SoC code): 2162

Non-Contractual Nature of Role Profile: 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.

PURPOSE OF ROLE
This role relates to GANNDALF, an international research project funded by Horizon Europe. Through agency-to-agency data sharing mechanisms, and the deployment of a decision-support toolbox to identify cyber threats, GANNDALF will deliver a customisable & collaborative crime investigation sandbox for scenarios for sophisticated crime investigation.

The particular role relates to two aspects of the project:
(a) To apply and enhance the Cyber Hygiene 2.0 vision, which encourages citizens to participate actively in the crime spotting and reporting process, without expert knowledge. It will involve a novel method for citizens recognising and reporting cyber-dependent crimes, as well as training on innovative ways to educate citizens against cyber-dependent crimes.
(b) To develop an optimisation framework that will contrast the extent and the nature of the privacy risk and its mitigation with different privacy enhancing technologies, against the operational benefit that counterfactuals bring to investigations and agency-to-agency collaborations, as we well as the associated operational cost. For this, the task will start by applying the Privacy Risk Assessment Methodology proposed by the National Institute of Standards and Technology to assess the privacy impact of counterfactual explanations provided.

This work will be carried out under the supervision of Professor George Loukas.

The post is for 18 months and can be extended up to a further 18 months subject to performance.

KEY ACCOUNTABILITIES
Team Specific:
- To identify the characteristics of current cyber crime trends and emerging cyber crimes
- To develop a diagnostic and reporting web app for cyber crime that can be used by non-expert citizens
- To develop the optimisation framework that will balance privacy risks in cyber crime investigations and agency-to-agency collaborations within the scope of the project.
- To help our integration partners in the project in the integration of our tool with the wider platforms developed by the projects.
- Attend project meetings remotely and physically overseas, around 10 of which in various countries in Europe.

Generic:
- To lead the write-up of the corresponding project deliverable reports.

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 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, Diversity and Inclusion 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
- Adhere to current legal requirements and best practice relating to digital content and accessibility, including Web Content Accessibility Guidelines when creating digital content.

Additional Requirements:
Undertake any other duties as requested by the line manager or appropriate senior manager, commensurate with the grade.

This is a professional, demanding role within a complex organisation with an ambitious strategic plan and agenda for change. The role holder will be expected to show flexibility in working arrangements, including working hours, to ensure that the university and its Centre for Sustainable Cyber Security deliver the required level of service.

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

KEY RELATIONSHIPS (Internal & External):
- Professor of Cyber Security
- Professor of Networked Systems
- External project partners

PERSON SPECIFICATION

EXPERIENCE:

Essential Criteria
- Strong publication record in cyber security and privacy
- Research experience related to cyber crime, privacy enhancing technologies or cyber hygiene.

Desirable Criteria
- Have worked as part of an EU or other large research project with multiple partners
- Conducting research with human participants

SKILLS:

Essential Criteria
- Strong software development experience
- Able to work to strict deadlines

Desirable Criteria
- Deliverable report writing
- Web app development

QUALIFICATIONS:

Essential Criteria
- PhD in computer science, engineering or other disciplines, or equivalent work experience, related to cyber security or cyber hygiene

Desirable Criteria
- N/A

PERSONAL ATTRIBUTES:

Essential Criteria
- We are looking for people who can help us deliver the values of the University of Greenwich: Inclusive, Collaborative and Impactful.

Desirable Criteria
- N/A