

PhD Studentship in Cybersecurity

Project Summary

This project will research and develop novel security services that can proactively detect cyberattacks as trends and patterns evolve on the social media and to a much wider context of the Internet. It will employ in-memory stream processing to process social media feeds, internet logs, and open data repositories to detect events which can influence cyber attackers. The early detection enables a complete novel set of proactive countermeasures to prepare the system in advance for the incoming attacks. The challenge will then be focused on identifying and designing cyber protection services to ensure vulnerable resources are efficiently protected. This project will use service function chaining to restrain cyber attackers without affecting the overall functionality of the network resources and services.

Cyberattacks continue to occur frequently and result in serious financial and reputation consequences for businesses and government institutions. This research will have significant technological, economic and social impact, by protecting connected resources and ensuring their availability. This project will make cybersecurity more proactive as event of local, national and global importance unfolds.

Profile Description

The ideal candidate for this post must have expertise in computer networks or network management/analysis with knowledge of Software-defined Networks. Hands-on experience of cloud computing platforms like Openstack would be a plus. Knowledge of python or java would be preferable. We are looking for a candidate having an appetite to learn and practice new knowledge to push the boundaries of computer network research.

What we offer

The selected candidate will have opportunities to closely work in Artificial Intelligence, Visual Communication and Networks (AVCN) research group along with industry linkage. This post covers full tuition fees of €5110/year. Apart from the tuition fee the candidate will receive a stipend of €18026/year to cover UK living expense. The candidate will have access to state-of-the-art cloud infrastructure comprising of 250 cores, along with office space to closely work with fellow researchers. The University of the West of Scotland (UWS) has a track record of securing UK, EU and international research grants and successfully delivering projects with impact-able research outcomes.

UWS is ideally located close to Glasgow with a motorway link to Edinburgh. The successful candidate will have a chance to explore Scottish culture and experience the stunning beauty of Scottish High Lands.

Instructions on how to apply can be found at:

<https://www.findaphd.com/search/ProjectDetails.aspx?PJID=74514&LID=1273>

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