



JOB DESCRIPTION

**Senior Cybersecurity Engineer
Professional 6
Information Systems Services (ISS)
Permanent Contract**

Dublin City University

Dublin City University (DCU) is a leading innovative European University. It is proud to be one of the world's leading Young Universities and is among the world's top 2% globally. DCU is known as Ireland's University of Impact, with a mission to 'transform lives and societies' and focuses on addressing global challenges in collaboration with key national and international partners and stakeholders.

DCU has over 20,000 students in five faculties spread across three academic campuses in the Glasnevin-Drumcondra area of North Dublin. Thanks to its innovative approach to teaching and learning, the University offers a 'transformative student experience' that helps to develop highly sought-after graduates. DCU is currently No. 1 in Ireland for Graduate Employment Rate, and for graduate income (CSO).

DCU is a research-intensive University and is home to a number of SFI-funded Research Centres. The University participates in a range of European and international research partnerships. DCU is also the leading Irish university in the area of technology transfer as reflected by licensing of intellectual property.

As a 'People First' institution, DCU is committed to Equality, Diversity and Inclusion - a University that helps staff and students to thrive. The University is a leader in terms of its work to increase access to education, and is placed in the world's Top 10 for reducing inequalities in the Times Higher Education Impact Rankings.

Overview of the department

The ISS Department is a central support unit responsible for providing a complete ICT service to the university's various schools, units, research centres and campus companies. In addition to working closely with all stakeholders across DCU to ensure quality service delivery, ISS is responsible for the university's extensive ICT infrastructure estate servicing our three academic campuses. ISS plays a key

role in supporting DCU in achieving the objectives set out in its Strategic Plan: Talent, Discovery and Transformation 2017-2022. For further information, please visit <https://www.dcu.ie/iss/>.

Role Profile

The Senior Cybersecurity Engineer will report to the Deputy Director of ISS and work with the Information Security Officer, within the Engineering & Innovation Team, to monitor and manage the operation of security systems and best practice across the university's IT environment. The candidate will participate in security related service management processes (security incident, change and problem management) and will participate in the planning, design, enforcement and review of security controls which protect the integrity of DCU digital assets.

Duties and Responsibilities

The duties and responsibilities of the position include, but are not restricted to, the following:

- Implement standard security control frameworks/guidelines to ensure consistent application of information security controls
- Recognise and identify potential threats and areas where existing cybersecurity procedures require change, or where new ones need to be developed
- Implement and maintain best practice security controls on windows and linux server platforms
- Analyse and evaluate network, subsystems, components, controls and security criteria for vulnerabilities and weaknesses
- Provide hands-on remediation of security vulnerabilities across a wide range of infrastructure and technologies
- Implement and manage network security components such as next generation firewalls, intrusion detection and prevention (IDS/IPS) systems
- Provide expertise in the technical design, implementation, testing and troubleshooting for security infrastructure components
- Ensure appropriate and proactive monitoring and event logging for the DCU IT Infrastructure
- Investigate and utilise new technologies, tools and techniques to enhance security capabilities and performance
- Perform security monitoring, vulnerability assessments and forensic log analysis to proactively detect security incidents and threats
- Plan for and perform periodic security audits to validate that the security posture satisfies DCU security requirements
- Provide subject matter expertise to all DCU stakeholders to ensure information security is appropriately considered and implemented
- Ensure appropriate incident handling procedures and security incident reporting is adhered to
- Prepare and document standard operating procedures and protocols
- Undertake any other appropriate duties assigned by the Director of ISS or nominee

Qualifications and Experience

Essential

- A primary degree or equivalent (NFQ Level 7) in Information Technology, Computer Science or other relevant field
- At least 5 years' relevant experience working in a challenging IT environment
- A strong technical background in IT with a clear and abiding interest in cybersecurity
- Excellent problem solving skills and ability to work under pressure
- Detailed technical knowledge of linux/windows administration and security controls
- Detailed technical knowledge of network security controls
- Working knowledge of one or more high level scripting language such as C++/Python/Java/Bash
- Significant hands on technical experience in enterprise level information security management
- Proven ability to implement proper system security controls, metrics and performance indicators for IT systems and service security
- Strong working knowledge across a range of technologies including Active Directory, IdP, VPNs, encryption, two factor authentication, VMware, network infrastructure and storage
- Good customer focus
- Strong communication, presentation, interpersonal and diagnostic skills

Desirable

- Experience working with a security incident and event management (SIEM) solution
- 3 years relevant experience holding an IT security role
- Information security management qualifications such as CISSP or similar