Cyber Security Technical Professional Integrated Degree Apprenticeship

Cyber Security Technical Professional Integrated Degree Apprenticeship provides the technical skills and knowledge to ensure that graduates can become competent and independent cyber security professionals who can operate within business, technology or engineering functions across a range of sectors of the economy including critical national infrastructure (such as energy, transport, water, finance). Integrating on-job practical training with academic learning provides graduates with an increased understanding of their organisation's unique business needs.

Apprentices will develop skills which enable they to lead teams that research, analyse, model and assess cyber risks; design, develop, justify, manage and operate secure solutions; and detect and respond to incidents.

CORE SKILLS:

- Technical competencies: Foundations of cyber security, its significance, concepts, threats, vulnerabilities and assurance; Risk modeling, analysis and assessment strategies; Cyber Incident Response tools and techniques; Secure software development; Malware Analysis; understanding of the applicable laws, regulations, standards and ethics.

INDICATIVE CONTENT:

Programming in C	Underlying Infrastructure	Communications	Professional Context
Object Oriented Software Design and Development	Web Applications	Telecommunications	Forensics and Security
Penetration Testing	Security Concepts	Legal & Ethical aspects of Cyber Security	Final Year Project

ABOUT THE DEGREE APPRENTICESHIP PROGRAMME

WHO THE APPRENTICESHIP IS FOR

Typical job roles which apprentices will enter include Cyber Risk Manager; Cyber Risk Analyst; Cyber Research Analyst; Cyber Incident Manager; Cyber Security Engineer; Cyber Security Design Engineer.

ENTRY REQUIREMENTS

All applicants need to be employed by an organisation in a role that provides them with the experience and exposure to a range of relevant business areas. This will ensure that apprentices can complete all elements as required by the standards.

Each applicant will be individually assessed on their eligibility, qualifications and work experience.

DELIVERY MODEL

The blended work-based programme is taught over three years and includes 12 compulsory modules with related assessments, including a final year work-based project.

The modules are taught in week-blocks whereby apprentices attend the University campus for lectures and tutorials with our expert teaching staff. The block structure allows flexibility within the delivery pattern to accommodate required work-based time with the apprentice's organisation.

ASSESSMENT

The apprentices will undertake a range of assessments at the end of their academic modules. Apprentices must also create a portfolio which will capture the knowledge and skills developed through the programme and in the work-place. They will complete a work-based project in their final year which will bring together their accumulated knowledge. The portfolio and project will contribute towards the apprentice's End Point Assessment for the Apprenticeship Standard.

FINAL DEGREE AWARD

The final degree award will be: BSc (Hons) Cyber Security Technical Professional Degree

FOR MORE INFORMATION, PLEASE CONTACT: cybertech.support@dmu.ac.uk