

MSc Digital and Technology Solutions Specialist Degree Apprenticeship

Level of study:

Master's degree (Level 7)

Course duration: 27 or 39 months

Delivery mode:

On campus with some online study

Brief Overview

The Digital and Technology Solutions apprenticeship enables the next generation of scientists, engineers and other professionals to become confident software engineers.

The programme is mapped against the Level 7 Software Engineering Specialist technical pathway within the Digital and Technology Solutions Specialist standard. Upon completion, successful apprentices will graduate with a master's degree (MSc) in Digital and Technology Solutions.

Who is it for?

The programme is for organisations looking to develop the next generation of technology leaders who can design, build and test high-quality software solutions across a range of IT areas. The apprenticeship is particularly well-suited to individuals who work with computer software daily and hold a technical degree in a non-computing subject.

Learning outcomes

- MSc (Hons) Digital and Technology Solutions
- Software engineering specialist knowledge, skills and behaviours
- Confidence in developing complex technology solutions to meet organisational needs
- A comprehensive understanding of software development and the ability to apply software engineering principles, methodology, and good practice to all stages of software development
- Ability to translate theoretical principles of software engineering into practical software solutions using industry standard software languages and tools
- Ability to drive work-based transformation through technological innovation
- Development of the management and communication skills required to work with a multidisciplinary team
- A thorough understanding of emerging technologies and techniques and their impact on the workplace.

Entry requirements

- A 2:1 honours degree or higher, preferably in science or engineering
- Applicants with relevant work experience but holding non-STEM qualifications may also be considered
- English and Maths Level 2, equivalent to GCSE A*-C or 9-4
- Applicants must be working in a relevant role and have appropriate employer support to undertake the programme.

Modules and teaching overview

The course runs for 27 or 39 months based on employer preference. Apprentices attend the University for the equivalent of one day per fortnight and combine classroom and online study with their job role. Progress in the workplace will be monitored through regular contact between the employer, apprentice and tutors.

Apprentices complete

- Six modules worth 20 credits each
- A software project worth 60 credits
- A professional portfolio
- An End Point Assessment.

Study Modules

- Object-Oriented Software Development
- Data Science
- Software Engineering

- Professional Development and Research Methods
- Secure Computer Systems
- Big Data and the Cloud
- A professional project

End Point Assessment

The End Point Assessment must demonstrate that the apprentice has acquired the full set of knowledge, skills and behaviours expected of a software engineer, and consists of two assessment methods:

- A project report which acts as a written account of professional projects undertaken as part of the apprenticeship
- A professional discussion based on questions related to the apprentice's portfolio of activities.

Costs

Please check our website www.brookes.ac.uk/apprenticeships for the most up-to-date costs.

CONTACT

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