

MK:U



MK:U - your degree apprenticeship partner

Developing talent for business

In partnership with:



Enhance your workforce using degree apprenticeships

Upskill current staff or recruit new staff and develop them through to undergraduate degree level with high quality education at MK:U funded through the Apprenticeship Levy.

Apprentices can range from new employees who have no prior experience to existing staff who have developed an understanding of the subject through their work, previous studies - or even as a hobby - but lack a formal degree qualification in their field. There is no upper age limit on who can do a degree apprenticeship, and we work with you to help you select your most promising candidates. We can also advise you on how to manage the work-based training and supervision they need.

Why choose MK:U?

Innovative – Exciting – Relevant – Professional

MK:U is a new kind of university for the 21st century, designed and delivered with business. It focuses on new technologies and industries, providing technical, creative and commercial skills for the digital economy.

Learning focuses on the practical implications of theories and decisions, enabling the apprentice to make an immediate impact on your business. We complement their subject-specific education with a professional and personal development programme that builds their resilience, interpersonal and commercial skillset.



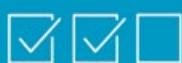
Alignment to your
organisational development
initiatives



Application of learning
to your organisation's
context



Organisation-based project
to advance your strategic
agenda



Modules that provide an
integrated approach to your
business



Assessment by assignment
focused on progressing your
business



Develop your staff
through flexible
delivery modes

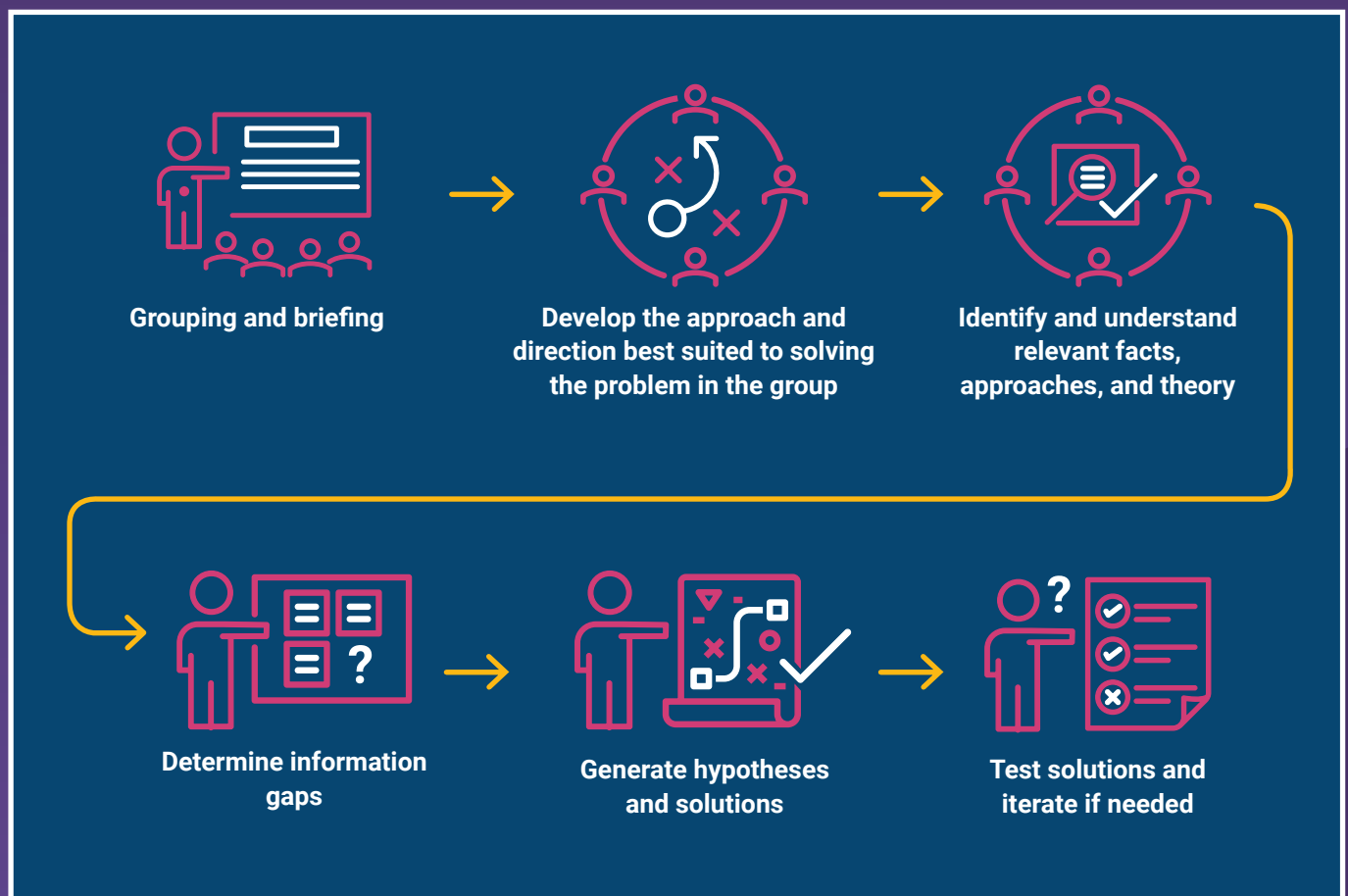
Problem-based learning at MK:U

At MK:U our education style is different from other universities. Instead of traditional lectures and exams, our entire curriculum uses problem-based learning (PBL) as our core educational approach. PBL is an experience-based educational approach where learning is driven by the posing of open-ended, yet meaningful, problem scenarios that apprentices solve through working together in small interdisciplinary groups.

What are the benefits of PBL?

- Develops more effective collaboration and communication skills.
- Improves organisational skills through allocating roles and tasks.
- Facilitates individual skills and ways of working, promoting diversity of approach.
- Encourages interdisciplinary views.
- Produces more powerful understanding and application of knowledge.
- Shown to increase engagement and performance.

What does a typical PBL session look like?



Delivery model - flexible hybrid

MK:U has been designed to allow flexibility in the apprentice's experience. We know that face-to-face sessions are important to learners; however, we also know that it is not always possible to physically attend all sessions.

We offer a hybrid delivery approach which enables learners to attend either in-person or remotely. We deliver this flexible hybrid model using the latest technology in our modern, purpose-designed, educational space in the heart of Milton Keynes, conveniently located close to excellent travel links.

Innovative bookend structure

Apprentices study one module at a time, enabling them to immerse themselves deeply in the topic. The assessments that relate to each module are authentic, modelled on activities and challenges that they face in their workplace.

We provide an innovative 'bookend' structure for each module, in which apprentices have an intensive two- or three-day initial immersion in the topic followed by a period of guided learning activities and closing with a second burst of intensive study. This approach gives apprentices the best of both worlds: time to focus in-depth on the topic and an opportunity to build professional networks and social relationships during the 'bookend' periods, combined with paced activities, enabling them to consider their learning within their own environment across the module. We provide coaching and support throughout.



Module introduction
(two or three days).



Series of online or in-class sessions.



Module summary
(two or three days).

The bookend structure works particularly well for early-stage learners. It may be complimented by different structures such as day release or block modules for certain subjects, especially in the later stages.

"I feel humbled, privileged and proud to have had the opportunity to experience a phenomenal journey. While it's been an absolute challenge, with many weekends and weeknights hunched over my textbooks, I wouldn't change any part of it."

Mike Ellis
Avis Budget Group International
(Senior Leader Cranfield Master's Degree Apprenticeship 2021)

Key facts

Entry requirements

MK:U students will normally have at least 96 UCAS points (three Cs at A Level) or equivalent academic or professional qualifications. Other relevant or prior experience may be considered as an alternative. We'll review those applicants without the 'headline' entry qualifications and work with you on assessing any skill gaps.

Additional statutory requirements

- Be a UK/EU/EAA resident for at least three years prior to starting the course.
- Have left full-time education when the apprenticeship starts.
- Have the right to work in the UK.
- Have achieved Maths and English at Level 2 (GCSE/BTEC).



Part-time

Three to four years



Delivery

Flexible



Start date

Flexible



Fees

Within Apprenticeship Levy



Location

Milton Keynes/Flexible



Degree award

BSc (Hons)

* This brochure shows examples of subject areas offered in programmes beginning in the 2021-2022 academic year, to give you an idea of course content. To keep our courses relevant and up-to-date any topics are subject to change so please check the latest information on our website.

Courses

Our first four Level 6 degree apprenticeships, available now - bringing education and industry together through a collaborative approach, are:

Chartered Manager

**BSc (Hons) Business
and Management**



Cyber Security

BSc (Hons) Cyber Security



Data Scientist

BSc (Hons) Data Scientist



Digital and Technology Solutions

**BSc (Hons) Digital and
Technology Solutions**



Course details

Chartered Manager

Qualification:

BSc (Hons) Business and Management to fulfil the requirements of the Chartered Manager Level 6 apprenticeship standard

This MK:U apprenticeship equips graduates with an entrepreneurial mindset, the ability to lead change, and an enthusiasm for future technologies, all of which they learn to apply in a variety of organisational contexts.

Learning focuses on designing and implementing business ideas, digitising business and effectively managing people, processes and resources to enable businesses to grow sustainably through innovation.

Why MK:U's Chartered Manager apprenticeship?

Our distinctive focus on developing an entrepreneurial and innovation mindset along with the ability to drive change successfully, all within the context of new technological developments, makes our degree apprenticeship unique. The digital, entrepreneurship, professional skills and management themes are at every level of the course, providing essential scaffolding from start to completion. These themes are key in enabling apprentices to develop into a well-rounded manager who can support business transformation and growth in an evolving environment.

Subject areas*

- Professional skills.
- The digital world.
- Sales and marketing.
- Managing finance.
- Entrepreneurship.
- Leading change.
- Strategy in action.



Course details

Cyber Security

Qualification:

BSc (Hons) Cyber Security to fulfil the requirements of the Level 6 Cyber Security Technical Professional apprenticeship standard

Rapid technological advances require cyber professionals who can adapt and innovate to promote cyber security. This apprenticeship provides graduates with practical knowledge on cyber threats, security and recovery.

Why MK:U's Cyber Security apprenticeship?

This apprenticeship covers human as well as technical aspects of cyber security. It equips our graduates to work in cyber security teams and in a wide variety of computing roles across broader businesses, as well as within organisations that have cyber security as their primary business.

Subject areas*

- Professional skills.
- The digital world.
- Digital maths and programming.
- Cyber security fundamentals.
- Networks.
- Ethical hacking.
- Human aspects of cyber.



Course details

Data Scientist

Qualification:

BSc (Hons) Data Scientist to fulfil the requirements of the Level 6 Data Scientist apprenticeship standard

Data is at the heart of the digital revolution including emerging technologies such as the Internet of Things, autonomous vehicles, and artificial intelligence. Fuelled by data from a multitude of sources, industries and businesses are increasingly reliant on data to create better products and services and require data scientists to provide the key insights. This apprenticeship provides graduates with practical skills and knowledge on data gathering and cleaning, through to analysis and clearly communicating findings.

Why MK:U's Data Scientist apprenticeship?

This apprenticeship covers a top-down approach to learning, working end-to-end on real-world problems and case studies. Our course focuses on how data science impacts and supports business – MK:U will produce graduates with a good understanding of industry and the role of data practitioner in any work setting. This programme addresses the technological skills gap in this area with flexible, business-focused and industry relevant modules.

Subject areas*

- Professional skills.
- The digital world.
- Digital maths and programming.
- Data science fundamentals.
- Data analysis and visualisation.
- Cloud computing.
- Big data and visualisation.



Course details

Digital and Technology Solutions

Qualification:

BSc (Hons) Digital and Technology Solutions to fulfil the requirements of the Digital and Technology Solutions Specialist Level 6 apprenticeship standard

The modern world is complex, highly-interconnected and increasingly relies on products and services that are enabled and delivered through complex solutions comprising people, data, organisations and technology. This apprenticeship meets those needs by providing apprentices with the practical skills and knowledge across a range of subjects and disciplines to enable them to use and apply integrated interdisciplinary approaches to produce business-relevant solutions.

Why MK:U's Digital and Technology Solutions apprenticeship?

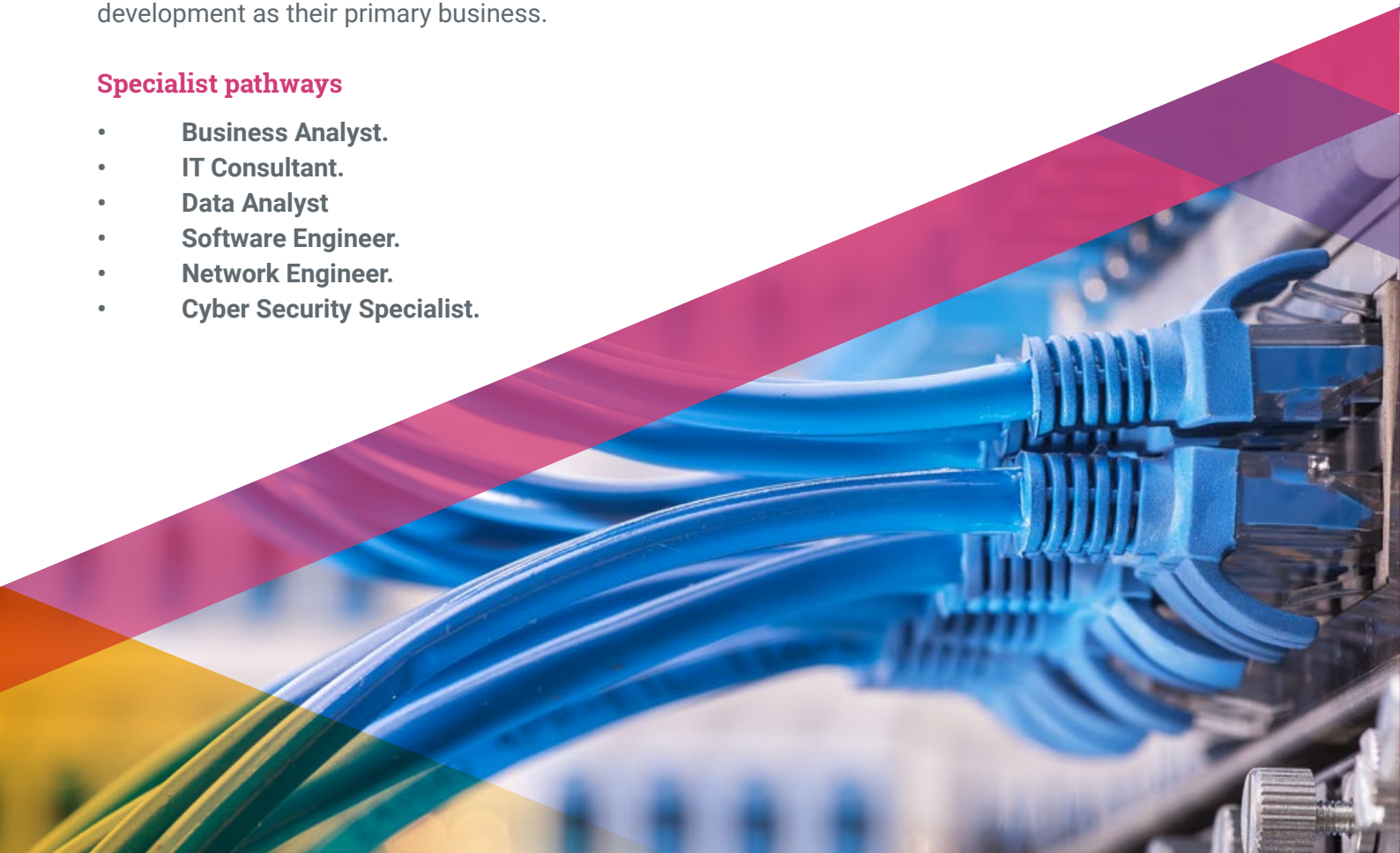
This is our most versatile degree apprenticeship, offering a choice from six pathways tailored to professional specialisms found in solution development.

The programme is interdisciplinary by design, with apprentices working at, and across, the boundary of STEM and management science disciplines during their core and specialist modules, with options to further individualise their later modules to areas of personal and professional interest.

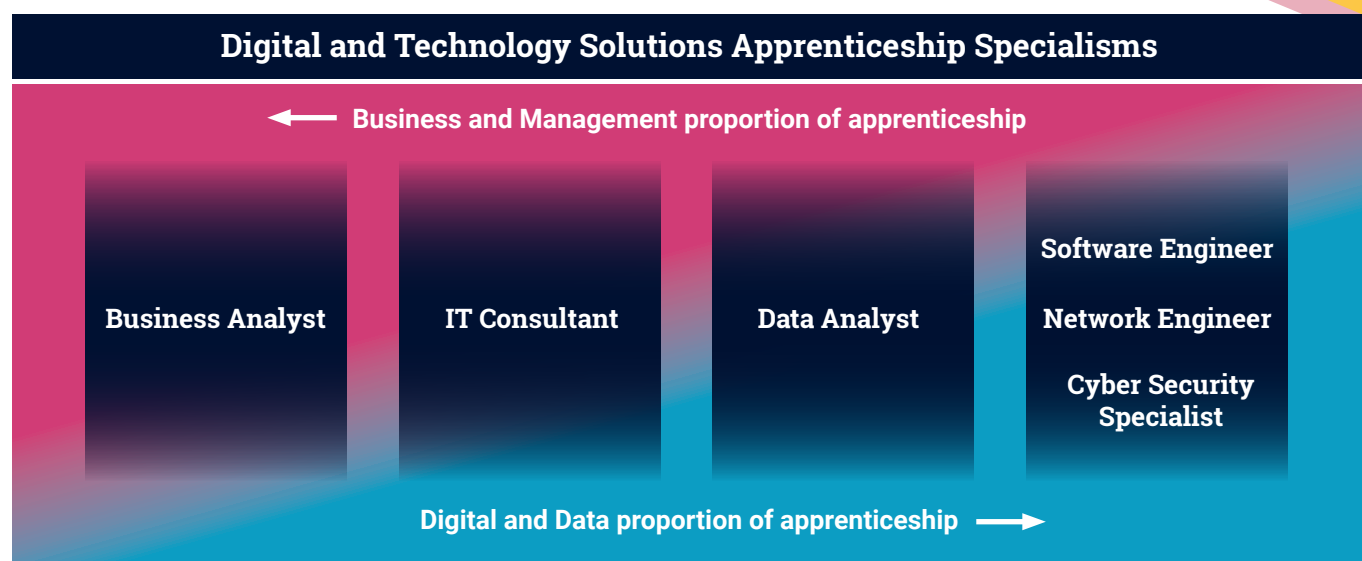
Graduate roles exist across organisations with consultancy, analysis and product and service development as their primary business.

Specialist pathways

- **Business Analyst.**
- **IT Consultant.**
- **Data Analyst**
- **Software Engineer.**
- **Network Engineer.**
- **Cyber Security Specialist.**



Digital and Technology Solutions cont.



Subject areas*

	Business Analyst	IT Consultant	Data Analyst	Software Engineer	Network Engineer	Cyber Security Specialist
Advanced networks					●	
Advanced software engineering				●	●	
Big data and visualisation			●			
Business and society	●	●	●	●	●	●
Business process analysis	●					
Cloud computing				●	●	
Data analysis and visualisation			●			
Deep learning and neural networks			●			
Ethical hacking						●
Grand Challenge project	●	●	●	●	●	●
Human aspects of cyber						●
Leading change	●					
Managing people, processes and resources	●	●				
Managing strategic customers		●				
Networks	●	●	●	●	●	●
Object orientated design	●	●	●	●	●	●
Professional consulting		●				
Professional skills	●	●	●	●	●	●
Security operations management						●
Secure software development	●	●	●	●	●	●
Technology solutions development	●	●	●	●	●	●

Cranfield University

As a global university with degree awarding powers, Cranfield University will validate MK:U's degree courses.

50%

of our students
study part-time
whilst in
employment

100%

pass rate at Cranfield for
the UK's first Executive
MBA students on the
Senior Leaders Master's
Degree Apprenticeship

1st

university
provider of
master's-level
apprenticeships

x6

Cranfield is a
six-time winner of the
prestigious Queen's
Anniversary Prize

"Since starting my studies in September 2017, my role has become broader and I've taken on a larger set of responsibilities. I don't think I would be as well equipped to succeed in my current role without my apprenticeship."

Ian Jones,
Director of Sales Operations at Archant
(Senior Leader Cranfield Master's Degree Apprenticeship 2020)



Contact us

Professor Lynette Ryals OBE
Chief Executive, MK:U
Kent House
Cranfield
MK43 0AL

E: mku@cranfield.ac.uk

www.mku.ac.uk



THE QUEEN'S
ANNIVERSARY PRIZES
FOR HIGHER AND FURTHER EDUCATION
2019