



# Models for Digital Apprenticeship Degrees

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- Summary of our report
- Contributions from Darren Dancey (MMU), Leonor Barroca (OU), Alistair Irons (Sunderland)
- Looked at models for digital apprenticeship degrees.

- A degree apprenticeship is a fully-integrated degree, involving both academic learning, professional development and work-based competence development and assessment.
- BSc Digital and Technology Solutions apprenticeship degree aims to produce graduates with the right mix of digital skills to work in a number of different areas in the IT industry.
- Two standards: level 6 (BSc) and level 7 (MSc). Define the core skills, knowledge and behaviours an apprentice will need.

**Software Engineer** ability to design, build and test high-quality software solutions.

**IT Consultant** a broad set of skills from all specialisms

**Business Analyst** assess the business impact of change, define requirements and support their delivery, coordinate with relevant stakeholders.

**Cyber Security** implementation, maintenance and support of the security controls to protect systems and data assets from threats and hazards.

**Data Analyst** collecting, organising and studying data to provide new business insight.

**Network Engineer** design, install, maintain and support communication networks.

- UK employers with an annual payroll over £3 million pay 0.5% of their payroll.
- Employers pay 5% of the cost of the apprenticeship and the government pays the rest.

# Funding for Digital Apprenticeship Programmes

<b>Programme</b>	<b>Funding</b>
BSc Digital & Technology Solutions	£25K, although there is a proposal to reduce that
Data Scientist	£21K indicative - £19K final
BSc Cyber Security Technical Professional	£27K indicative - £24K final
MSc Digital & Technology Solutions	£21K indicative - £21K final

- Consultation between the University and the Employer
- Apprenticeship design Can be adapted for an individual employer's business.
- Service Delivery Manager The employer's go-to person for everything relating to the apprenticeship.
- Systems and reporting The University will keep the Employer updated on the progress of their apprentices.
- Attraction and recruitment Recruitment led by the Employer but with input from the University.
- Apprentice support University provides ongoing academic and well-being support to the apprentices.

- Aston University has been working in strategic partnership with Capgemini since 2013 and delivering degree apprenticeships since 2015.
- There are now around 300 students currently on the programme and the first cohort graduated in July 2017.
- There is high level support for the apprenticeship degree programme at Aston university
- Programme takes four and a half years, starting with a 7 week intensive training, remainder is delivered through blended learning.
- Students on campus 3 days every six months.
- Apprentices are 5% of Capgemini's workforce. 50% of current apprentices on track for first class degree.



- MMU programme lasts four years, offering four pathways: IT Consultancy, Software Engineering, Data Analytics and Cyber security.
- High-level support within the University for the development of the programme
- MMU has a dedicated Apprenticeship Unit which supports the administration of the all their apprenticeship programmes plus a team of Employer Liaison Tutors
- A variety of assessment formats are used on the programme

- University employs the principles of work based learning (WBL) in the design of the programme
- Opportunity to develop opportunities for a different type of student and also targeted employability of graduates
- It is an autonomous programme, no overlap in module catalogue or academic delivery with standard BSc programmes
- portfolio based assessments; with an emphasis on active learning and work based learning.
- Students attend 3 day blocks of study every 4-5 weeks
- One employer is Tombola.

- The Open University (OU) launched the DTS programme in May 2017.
- Fits the OU's existing model, 3 in 4 OU students are already in work
- Modules developed by multi-disciplinary teams comprising: academics, educational technologists and media specialists
- Rich and varied set of learning resources. Online support is available through online forum activities with tutor and fellow learners.
- Practice Tutor meets with students and line managers at the work place and helps to integrate learning into the workplace.
- Employers are assigned an Account Manager and an Apprenticeship Programme Development Manager

## Progression Analysis Astong University

	Stage 1	Stage 2	Stage F	Average
<b>BSc Digital &amp; Tech Sol</b>	96.88%	94.06%	98.90%	96.53%
<b>BSc Computer Science</b>	66.08%	80.87%	81.32%	74.27%

<b>MMU Progression (DTS Programme)</b>			
<b>Start Year</b>	<b>Year 1 to 2</b>	<b>Year 2 to 3</b>	<b>Year 3 to 4</b>
<b>2015-16</b>	90%	100%	91%
<b>2016-17</b>	98%	97%	
<b>2017-18</b>	93%		
<b>Average</b>	94%	98%	91%

# Completion and pass rates for OU DTS Stud

Module	Start	Completing	Passing
Introduction to computing and information technology (2018) <b>Apprentices</b>	33	93.9%	93.9%
Introduction to computing and information technology (2018) <b>Non-Apprentices</b>	1555	70.5%	68.7%
Career development and employability (2017/18) <b>Apprentices</b>	28	82.1%	82.1%
Career development and employability (2017/18) <b>Non-Apprentices</b>	56	69.6%	67.9%

# Comparison of awards: Aston University (20

<b>Degree Classification</b>	<b>DTS</b>	<b>On-campus</b>
<b>First</b>	35.90%	31.43%
<b>Upper Second</b>	53.85%	48.57%
<b>Lower Second</b>	7.69%	12.86%
<b>Third</b>	0%	5.71%
<b>Ordinary with Merit</b>	2.56%	0%
<b>Ordinary</b>	0%	1.43%

- High-level support for Universities to develop DTS programmes
- Different models for delivery and different lengths of programme
- High level of support for the employers and apprentices from the Universities
- Very high level of progression
- Evidence of higher levels of first and upper second class awards for DTS students.



Any Questions?

