

New Computing and Information Systems building



### Recruitment process

Northumbria can support the design and implementation of your recruitment process, for example by arranging interviews and assessment days for applicants. Applicants will need to meet Northumbria's entry requirements for the programme, which include 120 – 128 UCAS tariff points – the equivalent of approximately three Bs at A level. We can also take into account other qualifications and work experience. Assuming the candidates meet our requirements you will have complete control over who you choose to employ.

**“Graduate employability is a huge priority for Northumbria University, and clearly degree apprenticeships support our ambition of delivering high quality programmes that meet learner and employer demand. They also offer new ways into higher education.”**

Professor Peter Francis  
Deputy Vice-Chancellor,  
Northumbria University

State-of-the-art new Computer and Information Sciences building to open in 2018.

New laboratories and equipment following £6.7m co-funded investment in STEM facilities.

Ranked 9th in the UK for the number of graduates in professional or managerial roles.

### Get in touch

E: [degree.apprenticeships@northumbria.ac.uk](mailto:degree.apprenticeships@northumbria.ac.uk)

[www.northumbria.ac.uk/degreeapprenticeships](http://www.northumbria.ac.uk/degreeapprenticeships)



## Digital & Technology Solutions

### Degree Apprenticeships

Software Engineers  
Business Analysts  
Data Analysts



Develop your people.  
Shape the future.



**Digital & Technology Solutions Degree Apprenticeships offering routes for Software Engineers, Business Analysts and Data Analysts.**

Developed in collaboration with and accredited by the Tech Partnership, this programme seeks to address the skills gap in the UK digital sector by combining vocational skills developed in the workplace with cutting-edge knowledge and expertise provided by Northumbria University.

**How does it work?**

We have been delivering the course, with a specialist route to Software Engineer since 2015; from September 2017 additional specialist routes will be

available within the framework to include Business Analyst and Data Analyst.

The programme runs over four years. Your organisation will employ the apprentice on a full-time basis and in partnership with Northumbria University. They will study on campus and/or with partner organisations as appropriate.

The course is delivered one day per week release basis, over 4 years; with a Summer module delivered in a 6 week block, one day per week, which can be attended on campus or remotely via a virtual classroom. Over 3 years there will be taught modules; followed by a major work-based project in 4th year.

Apprentices study a diverse curriculum based on a blend of technology, business and professional skills.



**“The course allows me to study a degree while in full-time employment, giving me the opportunity to implement new skills as I learn them. It has allowed me to improve and refine those skills, using industry best practice. The programming module has been challenging and is taught by someone who is passionate about programming, making this module the most fun.”**

Student Ross Wilkinson, has just completed his first year of a degree apprenticeship at Northumbria University studying BSc Digital and Technology Solutions.

EXAMPLE COURSE STRUCTURES*			
	Software Engineer	Business Analyst	Data Analyst
<b>Stage one</b>	<ul style="list-style-type: none"> <li>The Business Environment, Organisation and Management Information Systems (MIS)</li> <li>Systems Analysis</li> <li>Procedural programming; Object oriented programming</li> <li>Web technologies</li> </ul>	<ul style="list-style-type: none"> <li>System Analysis</li> <li>Introduction to Software Development</li> <li>The Business Environment, Organisations and MIS</li> <li>Introduction to Data and Information</li> <li>Managing IT Projects for Business</li> <li>Introduction to Big Data</li> </ul>	<ul style="list-style-type: none"> <li>Java Programming</li> <li>The Business Environment, Organisations and MIS</li> <li>Managing IT projects for Business</li> <li>Introduction to Big Data</li> <li>Systems Analysis</li> </ul>
<b>Stage two</b>	<ul style="list-style-type: none"> <li>Computer Networks and Control Systems</li> <li>Computer Technology and Security</li> <li>Relational databases</li> <li>Web Programming</li> <li>Advanced Operating Systems 1</li> </ul>	<ul style="list-style-type: none"> <li>Computer Technology and Security</li> <li>Social Media Analysis</li> <li>Computer Networks and Control Systems</li> <li>Entrepreneurship and Creativity</li> <li>Integrative Consultancy Project</li> <li>Research Methods</li> </ul>	<ul style="list-style-type: none"> <li>Program Design &amp; Development</li> <li>Statistics and Statistical Tools</li> <li>Integrative Consultancy Project</li> <li>Computer Technology and Security</li> <li>Computer Networks and Control Systems</li> </ul>
<b>Stage three</b>	<ul style="list-style-type: none"> <li>Data Security &amp; Governance</li> <li>Professional Software Engineering Practice</li> <li>Program Design &amp; Development</li> <li>Project Management &amp; Professional Issues</li> <li>Cloud Computing and Web API Development</li> </ul>	<ul style="list-style-type: none"> <li>Smart Technologies and Agile UX design</li> <li>Business Intelligence</li> <li>Web analytics</li> </ul>	<ul style="list-style-type: none"> <li>Web Analytics</li> <li>Data Security and Governance</li> <li>Group Project – Data Mining, Big Data</li> </ul>
<b>Stage four</b>	<ul style="list-style-type: none"> <li>Final Year Investigative/ Work-Based Project</li> </ul>	<ul style="list-style-type: none"> <li>Final Year Investigative/ Work-Based Project</li> </ul>	<ul style="list-style-type: none"> <li>Final Year Investigative/ Work-Based Project</li> </ul>

\*Programmes subject to approval.

**Benefits to you**

- Bring graduate-level digital and IT expertise into your organisation and develop a pool of highly skilled employees.
- Attract fresh talent to your business with an appealing offer of a job and salary from day one, no fees or debt and a full degree for the apprentice.
- Access government funding to provide new or current staff with a recognised and relevant academic qualification.
- Assessments can be based on the context and activity of your organisation, leading to increased organisational understanding and performance by the apprentice.
- Develop a strong working relationship with Northumbria University and find out about the many other ways we can help your business, including consultancy, research and development and professional development for your staff.



**“The Degree Apprenticeship scheme seems to be a win for all of the parties. Our Apprentices have increased their knowledge considerably whilst being at Northumbria, and I would have no hesitation in recommending the course”**

John Wiseman  
Director, STCS

**How the finances work**

In April 2017 the way apprenticeships are funded is changing.

All employers with a payroll of over £3 million will automatically pay an Apprenticeship Levy. The levy is set at a rate of 0.5% of the total pay bill minus a £15K allowance. Levy payments may be used by the employer within a 24-month period to cover apprenticeship training costs.

Employers with a payroll bill under £3m (such as many SMEs) will not be subject to the levy and will be able to access funding to cover 90% (and in some cases 100%) of the costs of apprentice training.

Full details can be found at:

<https://www.gov.uk/government/publications/apprenticeship-levy-how-it-will-work>