Computing, Digital and IT

Software Development Technician Level 3 Apprenticeship

In Brief

Start Date / Duration

This apprenticeship programme can be started at any time and will typically run for 18 months.

Entry Requirements

Individual employers will set the selection criteria, but this might include five GCSEs and/or A levels, a Level 2 Apprenticeship, other relevant qualifications and experience, or an aptitude test with a focus on functional maths.

You will need to find an employer to employ you as an apprentice. Please see our Apprenticeship vacancies.

You will achieve

Level 3 Software Development Technician Apprenticeship Standard.

Course Overview

Want to learn how to develop software? Then join us on our exciting Software Development Technician Apprenticeship.

A Software Development Technician typically works as part of a software development team, to build simple software components (whether web, mobile or desktop applications) to be used by other members of the team and as part of larger software development projects.

They will interpret simple design requirements and include implementing code, which they and other team members have developed, to produce the required component or software solution.

The Software Development Technician will also be engaged in testing specific components that meet intended functionality and will follow the standards and procedures of the software development lifecycle and its protocols.

For more information regarding this apprenticeship standard, please visit the Institute for

Apprenticeships website. [https://www.instituteforapprenticeships.org/apprenticeship-standards/software-development-technician/]

This course is delivered as part of the South Yorkshire Institute of Technology (SYIoT). [https://www.barnsley.ac.uk/syiot/]

Course Content

Love Programming? Then join us and make an exciting start to your career as a Software Development Technician.

Interpreting simple design requirements and understanding what's required and how you're going to create it, is all part of the journey to becoming a strong software developer.

Our Software Developer Technician apprenticeship equips learners with the technical skills they need to build competency within their role, developing a core set of technical and academic skills. This covers an array of subject areas such as:

- Logic: writing simple code for discrete software components following an appropriate logical approach to agreed standards (whether for web, mobile or desktop applications)
- Security: applying appropriate and secure development principles to specific software components all stages of development
- Development support: applying industry standard approaches for configuration management and version control to manage code during build and release
- Data Integration: simplifying connections between code and defined data sources as specified
- Testing: testing deliverables for errors and fit-for-purpose
- Analysis: following basic analysis models such as use cases and process maps
- Development lifecycle: understanding and implementing different methodologies (where required)
- Quality: following organisational and industry good coding practices (including those for naming, commenting etc.)

Additional skills developed and learnt on this standard include:

- Problem solving
- Understanding business context and market environments
- Responding to the business environment and change
- Improving Communication

[https://www.barnsley.ac.uk/syiot/]

How will I be assessed?

On Programme Assessment will include a mixture of:

- Practical demonstrations
- Work based projects

- Written assessments
- Portfolio
- Observations
- End-point Assessment

What Equipment Will I Need?

You will need to provide your own writing materials and a USB stick.

Where will I study?

You will study within the workplace and attend classes at Barnsley College's SciTech Digital Innovation Hub.

What can I do next?

You can progress onto higher level degree and/or apprenticeship study or apply for a vast array of digital roles that include:

Software Development Technician, Junior Developer, Junior Web Developer, Junior Application Developer, Junior Mobile App Developer, Junior Games Developer, Junior Software Developer, Junior Application Support Analyst, Junior Programmer, Assistant Programmer and Automated Test Developer.

See what careers are available in the Computing [https://www.barnsley.ac.uk/app/uploads/2023/10/Computing-careers-2023-24.pdf] and Games [https://www.barnsley.ac.uk/app/uploads/2023/10/Games-Design-careers-2023-24.pdf] sectors. Use our online careers tool, Career Coach [https://barnsley.lightcastcc.com/?radius=&region=Barnsley] , to find out what your next steps could be.

How much does the course cost?

There is no cost to being an apprentice. All costs associated with your apprenticeship, including the cost of training and your salary, will be paid by your employer.

Financial support

You may be eligible for assistance with expenses such as travel, books, equipment and childcare. For further information please contact the Student Services Team on +44 (0)1226 216 267.

Extra information

Contact the Apprenticeship Team

For further information please contact the team on 01226 216166 or email: apprenticeships@barnsley.ac.uk [mailto:apprenticeships@barnsley.ac.uk]

Want to join Barnsley Sports Academy and the Sports Village?

Barnsley College has a range of sports opportunities for all students to take part in, gain professional training and compete nationally and internationally. We also have a state-of-the-art fitness village, Honeywell Sports Village [https://www.barnsley.ac.uk/shops-services/honeywell-sports-village/] where students can make use of our fitness suite, spinning studio and classes for competitive rates. You don't have to be studying sport to get involved in the Sports Academy [https://www.barnsley.ac.uk/barnsley-sports-academy/] .

Additional Learning Support

Our Additional Learning Support team can provide you with the support you need. Please contact them on +44 (0)1226 216 769.

English and Maths

Having good English and Maths qualifications are important for most careers and we want to give you the help you need to succeed.

If you are aged 16 – 19 and don't already have a grade C/4 or above in GCSE English and Maths they will automatically be included in your study programme. If you want to work towards higher grades in English and Maths we can help you do that too.

Need a higher level Maths qualification? We offer a Level 3 Mathematical Studies (Core Maths).

This can be added to your study programme.

If you need any further information, please contact our friendly Information Team.

Disclaimer

Please note we reserve the right to change details without notice. We apologise for any inconvenience this may cause.

Last updated: 14th March 2024

Want to apply?

Visit **https://www.barnsley.ac.uk/apply** to get started
Call us on **01226 216 123**