TECH FOR LIFE

DOES THE THOUGHT OF TEACHING TECH MAKE YOU TREMBLE?

No worries, we're here to save you!
Say hello to Tech for Life...

In this crazy digital age we want our future generations to be able to **understand how technology works** and not just how to use it. The UK's digital industries are growing faster than the wider economy and creating a record number of jobs so we need to ensure we have the next talent pool of skills.

We want to get our educators engaged in the digital world and to break down barriers so we've pulled our socks up and we're here to help. We figure it's up to industry to lead the way in fully equipping our educators with the tools and knowledge they need to filter and share those skills... **and have fun doing it!**

Our offer for schools

We will provide you with unique industry-led computer science, coding and electronics CPD sessions. Each session has been specifically developed by our industry experts to help teachers understand the fundamentals of computing. You'll quickly grow in confidence, taking away innovative and practical resources to use in the classroom or even in your own Code Club.

We appreciate you'll be taking time out of your busy school day to attend, so we promise to share as much of our knowledge as we can in each session and have some fun doing it!

Who are we?

Campus North was set up in Newcastle in 2014 to provide a hub for the technology community in the North East and was recently crowned the Best British Workplace by search engine Adzuna. A home for startups, freelancers and businesses, Campus North has meeting and teaching spaces for hire, puts on regular events, plus a cafe open to the public.

Tech for Life is a new initiative developed by Campus North. It introduces people of all ages, skill-sets and backgrounds to the fundamentals of computer programming, digital skills and STEAM, breaking down barriers and providing opportunities for all.

> Our superb teaching force needs help and support to develop their technical computing skills. Not only is the technological environment changing at a phenomenal rate, but the school curriculum is too. Tech for Life courses are designed to help teachers enjoy learning about all aspects of the digital revolution and to provide much needed insights, which will enable them to advise our region's young people about the opportunities available to them - this chance for teachers to work with industry experts is invaluable.
>
> **Alison Shaw** | *Director, North East Futures UTC; Trustee, National Foundation for Educational Research*

www.techforlife.co.uk

Course Content

A hands-on guide to the basics. Each session will require you to work in pairs and complete step-by-step tasks with close support from your industry mentor.

Subject Area:
ICT Programming / Computing and DT

Who is it for?
Primary, Secondary, Special

Sessions aim
To cover a diverse range of content that is flexible enough to be adapted across the age range from KS1 to KS4.

Post session support:
Slides and handouts to take away, plus the code you write on the day and access to our online forum where you can continue to share ideas, knowledge and information with other attendees.

For the session:
Absolutely no prior knowledge needed. Please bring your own laptop computer and bags of enthusiasm!

Intro to Coding

In this session you will cover...

Scratch
This is a simple coding language and an excellent way of getting to grips with the basic concepts of programming.

Kodu
A highly interactive way of programming 3D graphics using very simple concepts that are quickly built up to create something great.

Sonic Pi
Learn how to make music with code!

PyGame
This library for Python offers easy and engaging ways of making games. We will work in pairs to programme a simple asteroids game and understand how smaller pieces of code become complex programmes.

Multi-discipline Computer Science
Discussion and skills review session thinking about how subjects like maths and physics apply to coding and how coding can affect other, more rudimentary disciplines, like literacy and numeracy with demos of ways you can implement into lessons.

Course Dates
Friday 30th September, 1pm - 5pm

Thursday 13th October, 3pm - 7pm

Thursday 10th November, 3pm - 7pm

Thursday 8th December, 3pm - 7pm

Intro to Electronics

In this session you will cover...

Intro to Python & Raspberry Pi (basic concepts)
Python is a relatively simple but complete programming language. Your mentor will guide you through a quick introduction to its basic patterns using a Raspberry Pi. This coding language can be found almost everywhere, from commercial games through to satellites and telemetry code on space rockets!

Microbit with Raspberry Pi
Curated by the BBC for the purposes of education, the Microbit is a new piece of hardware which you'll work with to discover its uses. Together with your new Python skills, you'll create simple games and message displays using LEDs.

Intro to Electronics
Discussion and skills review with demonstrations of ways to create interactive projects with the Raspberry Pi using sensor devices that are perfect for the classroom.

Course Dates
Friday 28th October, 1pm - 5pm

Friday 25th November, 1pm - 5pm

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Meet your Industry Mentors

Phil Jeffes
DevOps Engineer
SoPost

Rowan Hargreaves
Software Engineer
Thermionix (BMS Home)

Derek Graham
Principal Developer
Sage UK

Chris Wide
School Improvement
Advisor / North Tyneside Council

BOOK YOUR PLACE TODAY FOR JUST £99*

A recent government paper highlighted that there is a digital divide where up to 12.6 million of the adult UK population lack basic digital skills. An estimated 5.8 million people have never used the internet at all. This digital skills gap which starts in school is costing the UK economy an estimated £63 billion a year in lost additional GDP. These figures are compelling and there is an absolute need to support our future generations. Tech for Life has been addressing this issue and these CPD courses provide an industry-led approach to support our teachers to become better equipped at teaching critical tech skills. I would encourage all teachers to consider further developing themselves through these exciting and interactive courses.

Ammar Mirza CBE (Chair of the Progression Forum & Chair of Tyneview Governors)

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To book your place on one of our courses or find out more about Tech For Life, just give us a call, send us an email or fire off a Tweet!

E: hello@techforlife.co.uk

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£99 +VAT return to school offer for the first 20 places! Available through September and October