



“STEAM For Good”

Welcome to the 4th BT at Adastral Park Education & Skills Communications

The **BT at Adastral Park Education & Skills Communications Newsletter** brings you the top level news from each member of our education & skills team into one place – celebrating our schools and industry collaborations.

The Adastral Park team support different aspects of school and student needs from running events to create STEAM [Science, Technology, Engineering, the Arts and Maths] interest in young people, providing meaningful industry encounters, through to work experience and careers fairs, with the aim to inform everyone about apprenticeships and graduate careers.

Face to Face events are currently on hold, please bear with us whilst we review current guidelines. We would be interested to know your school guidelines on attending F2F events either with students or teachers, please let us know by emailing computerscience@bt.com. In the meantime, please do make the most of the many virtual events and virtual content that we have available.

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Can you Help?

[British Science Week 2022](#) - We are turning our thoughts to our next virtual BSW 2022 and are interested to find out from you what STEAM topics you would like to see covered. The idea of the content is to help bring the curriculum to life and have a line of sight from school/college to the world of work. Take a look at [BSW 21](#) and [NSF@School](#) to see what we have already covered. Please email computerscience@bt.com with any suggestions.

[Save The Date / Register Now](#)

11th-15th October: Norwich Science Festival @ School Week

Due to the fantastic success of our [virtual British Science Week](#), we are hosting a FREE [Virtual Norwich Science Festival @ School](#) Week, for Y6 to Y13 students.

Hot Topics we are exploring are:

- The Magic of **Networks**
- **Artificial Intelligence**
- **Optical Fibre**: Content Streaming Down a Single Strand of Glass
- Digitalizing **Healthcare**: The Rise of Virtual Care
- Tackling **Climate Change** with Technology

As well as videos being launched each day, you can also get involved in other activities too:

Register for the daily free live [Q&A sessions](#) for your chance to interact with the experts! Each day the Q&A sessions will be held from 1345 – 1430. Throughout the week we have experts from BT, University of Bristol; Kings College London; Corning; Orbital Global and University of East Anglia!

Download the Activities pack for plugged and unplugged activities - all supporting the five hot topics throughout the week. We have a [KIT LIST](#) available now you can download, so you can get planning ahead of NSF week!

We have some great **Profile cards** of our experts, to inspire all the students. So as well as finding out who is the expert in AI and gets computers working together effectively, or develops technology to reduce carbon footprint – try to spot who loves Marvel films, enjoys going to football with his dad or loves rock climbing and surfing!

We are proud that this event can support schools in achieving the **Gatsby** benchmarks. Don't forget by getting involved in NSF @ School, this counts towards the [Youth STEMM Awards](#)

12th-14th October: Data Science – The Beating Heart of AI

Do you have students interested in [Data Science and AI](#)? The Tommy Flowers Network are holding a 3 half day virtual conference focussing on just that! Speakers from BT, academia, PhD students and industry will provide interactive presentations and panel discussions.

Topics include:

- All models are wrong! – The foundations of modern Data Science
- That doesn't look right! – How to find the glitches in your data and models (anomaly detection, bias/fairness)
- Where's my model? – Putting it all together and running the AI factory

CyberFirst Girls Competition – registration opens 18th October

The National Cyber Security Centre (NCSC) are working hard to get more girls interested in a career in cyber security. The CyberFirst Girls Competition provides a fun but challenging environment to inspire the next generation of young women to consider a career in cyber security.

The competition is a team event, with each one made up of 4 students from Year 8 in England and Wales, Year 9 in Northern Ireland and S2 in Scotland. The first round of the competition is online, followed by regional semi-finals (we'll be hosting one at Adastral Park!) and a national grand final.

Whatever your ability, from beginner to expert, the CyberFirst Girls Competition is an opportunity to learn something new about cyber security. The content for each category of the competition is consistent with subjects within the Computer Science syllabus from both the National Curriculum and Scotland's Curriculum for Excellence. You can find out more here: [CyberFirst Girls Competition - NCSC.GOV.UK](https://www.ncsc.gov.uk/cyberfirst-girls-competition)

23rd-30th October: Norwich Science Festival F2F

If you are in the Norwich area over half term then why not explore the wonders of the universe, meet the scientists whose research has changed our world and debate some big questions with some big thinkers at the [Norwich Science Festival](#). There will be inspirational talks, sensational shows, and an abundance of science activities for all ages and all levels of knowledge.

24th November: Why programming skills have become a core expected skill in the modern workplace?

This Isaac Computing Discovery Day is a free virtual event running 10-1pm including expert speakers, Q&A hands on practical workshop and panel session. Great for GCSE and A Level students and teachers. Limited places and [booking essential](#)

7th December: The Impact of technology on everyday life and work

This Isaac Computing Discovery Day is a free virtual event running 10-1pm including expert speakers, Q&A hands on practical workshop and panel session. Different speakers and sessions to the programming day. Great for GCSE and A Level students and teachers. Limited places and [booking essential](#)

Festival of Suffolk Schools' Event – 20th June – 1st July 2022

Next year is the Queen's Platinum Jubilee, celebrating her 70 years on the throne. All sorts of exciting events and celebrations are being planned across the county as a "Festival of Suffolk". There are plans for a 2 week programme of events, aimed at years 10 and 12 that we would love for your school/college and your students to be involved in.

The programme includes:

- A kick-off event
- 2 weeks where companies across Suffolk – large and small – will hold open days giving students the opportunity to understand the range of different careers in different sectors.

There will be lots of activities to be involved in and the theme for the whole event is a 'Stronger Sustainable Suffolk'.

We'll be sending out further information in the coming weeks and you can register your interest here: <https://forms.office.com/r/TLAU2z1Qnm>

Opportunities

Nuffield Research Placements 2022 at BT, Adastral Park – Year 12 students

BT working in partnership with educational charity, STEMPOINT East, are offering Year 12 students from schools and colleges in the Suffolk/Norfolk area the chance to work alongside their technology and communications experts at Martlesham Heath near Ipswich, through the Nuffield Research Placements Scheme.

Students will work on one of several exciting research projects exploring the Internet of Things; IT in communications; Broadband and its products such as internet TV, as well as next generation mobile technology and content. Students could be doing leading edge data analytics, using science to help our scientists and technology experts develop faster internet speeds and better connection of telecommunications equipment.

Placements last two weeks and will take place in summer 2022. STEMPOINT East also offer placements in a variety of other STEM and Social Science organisations so they are also encouraging applications from students with a wide range of interests. [Eligibility criteria apply.](#)

Applications for the scheme open later in the Autumn and STEMPOINT East can arrange to visit your school or college, either virtually or face to face, to give your students information about this prestigious opportunity. Please use the following form to express interest in a visit or contact [Sally Moore](#) for further information:

Virtual Work Experience – Year 10-12

The Careers and Life at Work programme focuses on aspects of work experience from virtual, face-to-face, T-Levels, and others. For more information please visit the [Adastral Park website](#).

If you are interested in finding out more about Virtual Work Experience or Insight days please complete this [form](#) and someone will be in touch.

Digital production, design and development” T-Levels Pilot

Our “Digital production, design and development” T-Level pilot with Suffolk New College in 2019 was unfortunately stopped by Covid after only a few weeks. However, we are delighted to announce that the Digital T-level pathways will be launched in September 2021 - bringing together West Suffolk College, Suffolk New College and Suffolk One to build the BT Adastral Park Industrial Placements for a small cohort of their students. See the Gov.uk website for more details on [T-Levels](#). For T-Level enquires please contact careerslife-at-work@bt.com

Free Hands on, interactive workshop to using Bee-Bots and Bee-Bot Emulator in delivering the primary curriculum – Primary Teachers and TA's

60 minute online interactive and fun hands on introduction to using Bee-Bots and Bee-Bot Emulators across the whole of the primary curriculum. Having a Bee-Bot to hand is strongly recommended and will improve your experience of the session but is not essential.

Please note this course focuses on use and understanding of the technology/platform rather than delivery of the curriculum.

If you are interested in attending this workshop or organising one for your school, then please email computerscience@bt.com and we will get back to you ASAP.

Free Hands on, interactive workshop helping you get started with Scratchjr in the Primary Curriculum – Primary Teachers and TA's

60 minute online interactive and fun hands on introduction to using the free ScratchJr app. This session will assume no knowledge and demonstrate how ScratchJr can be used across the whole of the primary curriculum. Having access to ScratchJr is strongly recommended and will improve your experience of the session. Please note this course focuses on use and understanding of the technology/platform rather than delivery of the curriculum. If you are interested in attending this workshop or organising one for your school, then please email computerscience@bt.com and we will get back to you ASAP.

Free Hands on, interactive workshop exploring the use of more advanced features of Scratchjr in the Primary Curriculum – Primary Teachers and TA's

60 minute online interactive and fun hands session introducing the more advanced aspects of ScratchJr. It will demonstrate how the app can be used across the primary curriculum to challenge all students. Having access to ScratchJr is strongly recommended and will improve your experience of the session. Please note this course focuses on use and understanding of the technology/platform rather than delivery of the curriculum. If you are interested in attending this workshop or organising one for your school, then please email computerscience@bt.com and we will get back to you ASAP.

Free Hands on, interactive workshop helping you get started with using the Micro:Bit in the Curriculum – Teachers and TA's

60 minute online interactive and fun hands on sessions introducing the Micro:Bit, Micro:Bit Classroom and Data logging. Having access to the Micro:Bit emulator on the web browser is strongly recommended and will improve your experience of the session. Please note this course focuses on use and understanding of the technology/platform rather than delivery of the curriculum. If you are interested in attending this workshop or organising one for your school, then please email computerscience@bt.com and we will get back to you ASAP

Support and Free Resources

Computer Science Support

Are you looking for Computer Science CPD, bespoke training, help in developing or reviewing your Computer science curriculum? Then the [Suffolk Computing Hub](#) is there to help, scroll down their page to view Primary School and Secondary Schools courses on offer.

Effective use of technology in the classroom support

Would you like some support in the effective use of online learning platforms and the use of technology within the classroom? Then take a look at the [EdTech Demonstrator program](#) that is offering Free professional development and support.

Barefoot Computing Resources

- [CyberSmart](#)- Primary
- [Predict, Run and Investigate](#) – Primary
- [Modify and Make](#) – Primary

Fitzwilliam Museum resources

- [Fitzwilliam Museum's YouTube channel](#) and within the various videos, you will find five entitled: Reuse, Respect, Repair, Recycle and Reward.
- Meet Cambridge Museum colleagues – what does their job entail and how might it link with STEM? Try [Paola Ricciardi](#), Senior Research Scientist at the Fitz, but you and your students may find other ones interesting.
- Scientific Research: the Conservation and Collections Care department have a blog, where all their conservators share information about their work, projects and research but how did they [digitalise and catalogue over 5000 images](#)?

The Institution of Engineering & Technology Open House

Adastral Park proudly took part in this year's IET Open House virtual event on **23rd July 2021**

You can [watch the videos](#) of an exclusive Virtual behind the scenes view at Adastral Park – home to over 150 high tech companies.

There are a lot of different activities from pushing the boundaries of technology; to developing new products and services; to keeping the park secure and running and they all involve engineering and technology in some way. The videos showcase some of the people who work at the park, and they share a little about what they do and their career journey so far.

[Early Careers](#)

New talent research strategy update from Andrew Corston - a whirlwind exciting time of the year:

Early Careers Programmes: new graduates!

At the beginning of this month we have welcomed 4 graduates joining BT Applied Research at Adastral Park. They join a 260 plus strong research department and are part of over 50 graduates to join at Adastral Park this autumn.

Early careers Programmes: summer placements!

We said goodbye to our fantastic IET Diamond Scholar and summer placement students as the new academic term starts. Each student presented their research project outputs plus their experience of work in the BT teams. Some of have expressed a preference to join us in the future and we are actively working to make this a reality for these cohort of new talent.

Early Careers Programmes: new apprentices!

We recently welcomed 6 apprentices to BT Applied Research. They joined 91 apprentices from across BT Group, Digital and Networks for a two-day comprehensive virtual induction. At least 50 apprentices are coming into our Digital and Networks organisations and are based at Adastral Park. It's a very busy time for the new BT Applied Research apprentices. As part of their induction, they have visited the Networks Operation Centre - which is where the UK's phone and internet network infrastructure is monitored and managed. The apprentices have already enrolled for their BSc in Digital and Technological Solutions with Exeter University – starting their first virtual residential learning week in September.

All our other apprentices are now preparing for their sixth month or end of rotation presentations before they start their virtual university learning weeks with Exeter later in September too.

BT's apprentice and graduate programmes for 2022 (for apprentices and graduates who wish to pursue a STEM career with BT) will launch later this Autumn so please keep monitoring our [website](#).

Would you like a STEM Careers Talk?

Our education careers attraction engagement team can present a STEM careers talk to your school or college - especially with those of you based in the East of England where Adastral Park is based. If you are interested in finding out what STEM Early Careers opportunities are likely to be available then please [email us](#) **putting the name of the school or college in the header and the title** "Interested in a STEM careers talk". This year BT will be recruiting in Birmingham, Bristol, Belfast and Manchester along with other locations still to be announced.

To get a flavour of the amazing career opportunities and what goes on at Adastral Park please take a look at our [website](#).

Meet Our New Team Members

Luke Johnson

Before joining our team, Luke was a Software Engineering manager in BT Digital and has previously helped us as a volunteer at events such as British Science Week. Luke started with BT in October 2013 on the Higher Apprenticeship scheme

Luke will be splitting his time within the BT Education team and the Customer Showcase.

In his Education role, Luke will be leading our activities for British Science Week 2022, as well as developing, and running new events and activities for students and teachers.

Shane Allum

Some of you have probably met Shane or have spotted him on our brilliant virtual videos. Shane hosts BT customers in our Customer showcase at Adastral Park – both in person and virtually!

Shane also started with BT as an apprentice, winning the Apprentice of the year award in 2011

Shane will also be splitting his time within the BT Education team and the Customer Showcase.

In his Education role, Shane will be leading the development of our new activities around artificial intelligence (AI) and facilitating our Isaac Computing Discovery Days.

Meet The Whole Team!



Pam Popay, Shane Allum, Luke Johnson & Penny Davies

Schools Enrichment & Community Engagement Team, email: computerscience@bt.com



Rika Nauck

Careers & Life at Work (CALAW), email: careerslife-at-work@bt.com



Andrew Corston

New Talent Research Strategy Manager, email: adastral.apprentice.attraction@bt.com



Tom Bowman



Abigail Johnston

Apprentice Attraction Ambassadors for Adastral Park, email: adastral.apprentice.attraction@bt.com



Carol Fletcher

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