MAY 2023	Adastral Park Education & Skills Newsletter

BT

'STEAM for Good'

STEAM EDUCATION

https://atadastral.co.uk/

This Adastral Park Education & Skills Newsletter brings you the top-level news from each member of our education & skills team in 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, to providing meaningful industry encounters, through to work experience and careers fairs.

Don't forget to make the most of the virtual content that we have available https://atadastral.co.uk/careers-education/

Please forward this Newsletter onto all Science, Technology, Engineering, Arts & Maths Teachers in your school. If this email has been forwarded onto you by someone other than us but you would like to receive the info directly, please email: computerscience@bt.com with your email address and school and we'll add you to our mailing list.

FAREWELL

As reported last month we're very sad to be saying goodbye to Pam Popay and Andrew Corston who are leaving BT at the end of May. Pam has included this message for you:

I wanted to take this opportunity to say a huge thank you to you all for the support, trust and engagement that you have given me. For some our engagement is new but others it goes back more years than I like to remember. Together we have delivered innovation days, Olympic 2012 challenges, robotics physical and virtual, BSW, Technology Days, Christmas Lectures, Isaac Discovery Days what became known as the Barefoot programme and the National Centre of Computing Education – Teach Computing programme. It has been amazing working with you all and helping to inspire the next generation. None of this could have been achieved without the support from volunteers, participation from schools and of course our amazing team at Adastral Park.

*However it isn't goodbye. I am leaving BT but the schools engagement will continue and you may see me around. I am moving on to work with the Suffolk Computer Hub (and the National Centre of Computer Education in general) which offers FREE support to teachers, schools and colleges to provide a high quality computing education for all young people. If you would like **FREE help** identifying your computing needs, creating a targeted programme to embed Computer Science in your school, **FREE CPD** and a chance to **borrow kit** to support the delivery of physical computing then please do get in touch. My new email is pampopay.STEM@gmail.com*

It has been an amazing journey, Thank you,
Pam

INTRODUCTION

Next Academic Year
We can't believe there is only half a term left until the summer holidays! We're busy thinking about our programme for next academic year and we'd love to **hear your opinions**, especially:

- **What have you and your students enjoyed? Or not enjoyed?**
- **What have you and your students found useful?**
- **What would you like to see us do in the future – both face to face and virtual?**
- **Do you use the online resources? Why or why not?**

Please share your views with computerscience@bt.com

Could you join our Teacher Panel?

We're putting together a **teacher panel** to act as an advisory board for our programme, keeping us up to date on what is happening in schools and making sure our programme is engaging and inspiring. If you'd be interested to join, please let us know. Meetings would be held once a term, with a virtual attendance option. Email computerscience@bt.com

Do you have a Venue we could use to run activities?
We're aware that for some schools the cost of transport to Adastral Park prevents them taking part in our face to face activities. We are looking for alternative venues where we could hold events which are within walking/shorter travelling distance of several schools. If you have a venue with WiFi access, where we could hold events for around 60 students at a time, please let us know. Email computerscience@bt.com

DATES FOR YOUR DIARY

FACE TO FACE EVENTS
- **31st May & 1st June: Suffolk Show** - come to our Marquee on **Plot 47**
- **14th June 2023**: **Technology Day, Yr10+** – fully booked
- **18th Oct 2023: BT Business Enterprise Day, Yr9**
- **30th Oct 2023: Making Tech Relevant, Teacher Event**
- **2023-2024: Skills Escalator Days, Yr2**

CHALLENGES & RESOURCES
- Cyber First Girls Competition
- Free Micro:Bits and Resources
- IET Faraday® Challenge Days

PAST EVENTS & ACTIVITIES
- 2023 Virtual British Science Week

LIFE AT WORK
- Work Experience
- Insights Experience
- Year 8/9 assemblies

EARLY CAREERS
- Opportunities at BT

DATES FOR YOUR DIARY

TITLE: **Suffolk Show**
DATE: **31st May & 1st June 2023**
SUITABLE FOR: **Everyone!**
LOCATION: **Trinity Park, Ipswich, Plot 47**
TIMES: **All day**

We will be at the Suffolk Show again this year with our Adastral Park marquee, focusing this year on robots and space, and we have some great exhibits and drones lined up too! There will be loads to see and do in the marquee, including the Schools Enrichment Team who will be there, so please do come by and support us.

TITLE: **Technology Day**
DATE: **14th June 2023**
SUITABLE FOR: **Yr10+**
LOCATION: **Adastral Park**

We are looking forward to welcoming students from local schools to Adastral Park to experience Drones, Robotics, AI, Software Engineering, Cyber Security, the World of Work and lots more.

TITLE: **BT Business Enterprise Day**
DATE: **Wed 18th October 2023**
SUITABLE FOR: **Year 9 ***
LOCATION: **Adastral Park, Martlesham Heath, IP5 3RE**
TIMES: **9.15am-3.15pm**
PLACES: **Max 16 students per school** [2 groups of 8]
                Plus Year 12/13 volunteers (see details below) **

After a bit of a hiatus, we're pleased to say we can now announce the return of our "BT Business Enterprise Day"! In case it's new to you, or a gentle reminder is needed...

BT Business Enterprise Day is a day of pure commercialism, where "companies" compete in a competitive capitalist business simulation, striving to essentially make the most money in a day to win.

Companies are formed from 8 to 10 Year 9* students** (from the same school) and they will compete against companies from other local schools primarily building and selling "virtual" cars...

But, cars cost money! So this has to be earned on the day through activities such as 'investments', share dealing and inter-company trade.

Your students will learn a lot about delegation, team work, managing loans, handling cash (using our electronic bank), advertising, planning ahead, negotiation, thinking-for-themselves and basically dealing with others!

Some specifics each company will need to do include:

- Applying for a startup loan, with a simple business case attached, for their initial capital injection.
- Tracking and building up "car parts" – many of which are *only* available from other companies.
- Tracking their loan and making repayments on time.
- Managing their "online" (private to the event) bank account (using software our volunteers created).
- How stock markets work, and trading shares on our own "online" (private to the event) stock market (using software our volunteers created).
- Generating cash for "car parts" by investing in physical team activities, quizzes and questionnaires which all generate a "return on investment".
- Getting "Government"/regulator paperwork done on time and accurately.
- Delivering a short "Dragon's Den" presentation with Q&A to an investment panel (details of the simple presentation required will be given ahead of the event)
- Dealing with "The Union" when their (virtual) car-part factory workers suddenly go on strike.

If you think you're interested, initially we can only take a maximum of 2 teams/companies (of 8 to 10 students) per school as we have a maximum number we can't exceed. If you'd like additional teams/companies then let us know and we'll do our best when numbers are looking stable.

If you've any other questions, please do get in touch either on this email address or directly to Kevin.Peirce@bt.com

* In the past we've mixed Year 9 and Year 10 – but have found that even that one year of difference helps the older students, so for this event we're strictly sticking to a single year group.
** We have a fair few BT Volunteers who make the event a success, but we also rely heavily on Year 12/13 students from the schools taking part. These students help run the activities, bank, stock market, etc – so if you're also able to bring along 3 or 4 Year 12/13 students who can help on the day (full but super easy instructions will be given) then that would be awesome.

TITLE:	**Making Tech Relevant: Linking Tech Industry with Curriculum to Bring Learning Alive!**	**Teach Computing**
DATE:	**Monday 30th October 2023**	
SUITABLE FOR:	**Teachers**	
LOCATION:	**Adastral Park, Martlesham Heath, IP5 3RE**	

Save The Date! On the 30th October 2023: Suffolk, Norfolk and Colchester Computing Hub and Alpha Teaching School Hub, in partnership with BT are holding a face to face conferences at BT Adastral Park. We will be bringing tech alive, with ways to link your curriculum and pedagogy with technology. The content will be suitable for both primary and secondary colleagues from all subjects. Register here: Festival of Learning – Making Tech Relevant (edlink.uk)

The Computing Hub (Suffolk, Norfolk and Colchester) is the delivery hub for the NCCE (National Centre for Computing Education) programme to help you teach computing. We deliver face-to-face courses and provide bespoke support for teachers and leaders in primary and secondary schools. Full details visit here: Computing Hub: Helping you Teach Computing – Free CPD, Resources, Curriculum & Direct Support (edlink.uk)

Skills Escalator Days Year 2

The Schools Enrichment Team will be at these Events. For more information please contact: Victoria.fiebelkorn@wsc.ac.uk

SKILLS ESCALATOR DAYS (SEDs)
Activities focussing on career related learning, delivered by local government, business, and industry, for pupils in school year 2 aged 6 to 7 (unless otherwise stated) at the following locations:

Sudbury 16 June 2023 please note change of date
18-20 CORNARD ROAD, CO10 2XA

Ipswich 13 July 2023
SUFFOLK ONE, IP8 3SU

Ipswich 14 July 2023
11 FORE STREET, IP4 1JW

Newmarket 20 September 2023 NEW VENUE
TATTERSALLS PARK PADDOCKS, THE AVENUE, NEWMARKET, CB8 9AY

Bury St Edmunds 9 & 10 October 2023
WEST SUFFOLK COLLEGE, BUILT ENVIRONMENT CAMPUS, IP32 6SR

Bury St Edmunds XR SED for Years 3 & 4 date tbc January 2024
UNIVERSITY & PROFESSIONAL DEVELOPMENT CENTRE, IP33 3YU

CHALLENGES & RESOURCES

Cyber First Girls Event – Year 7
In early May, we held 2 activity days for Year 7 girls to encourage them to think about Cyber Security as a future career and to enter the CyberFirst Girls national competition. Approx 160 students from across Suffolk, Norfolk and Essex took part in challenges to crack codes and solve puzzles, as well as having a tour of the Adastral Park

Showcases. We were also interviewed by and appeared on ITV Anglia News!

Changes to CyberFirst Girl's competition
CyberFirst have reviewed how they run the Girl's competition. The competition will now be focused on the online round as a final. After the online final, the 13 online regional winners will then be invited to a celebration gala event. CyberFirst are keen as part of the approach to explore opportunities for members to host pre-events to encourage girls to take part as well as post regional celebrations

The 10-day competition starting on the 20th November 2023. We will keep you all posted on when registrations open and any pre-event support we can offer here at Adastral Park.
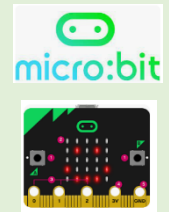
More details on the CyberFirst Girls Competition can be found here: CyberFirst Girls Competition - NCSC.GOV.UK

CyberFirst Awards Dinner
Each year, the CyberFirst team hold an Awards Dinner alongside CyberUK to recognise the achievements of CyberFirst students and alumni, and the fantastic contributions of industry and government CyberFirst members. BT were delighted to be awarded the CyberFirst Industry Champion Award!

Free Micro:Bits!
Micro:Bit Educational Foundation, BBC and Nominet have joined forces to offer 30 BBC Micro:Bit devices to every primary school in the UK. Applications are now open until 18th December 2023. One application per school. Visit microbit.org/thenextgen-registration/

Micro:Bit Resources
Visit the Micro:Bit website to learn how to sense, measure and log light; temperature; sound; movement and magnetism. Explore buttons; LEDs; Radio; Networks; Simple Circuits and PINs. Add code to bring the Micro:Bit to life. Change the code to transform it into something new.

Micro:Bit offer free professional development courses and live webinars for those getting started as well as more experienced teachers. Lots of teaching resources are available along with Micro:Bit classroom where you can run whole class sessions, easily share code with students and keep a record of progress. Microbit.org/teach/events

IET Faraday® Challenge Days

An annual competition of STEM activity days with a real-world challenge for pupils aged 12-13 years. IET also offer printable resources and guidance to run your own Challenge, choosing a time and theme that suits your students. For more information please visit: IET Faraday Challenge Days (theiet.org)

2023 Virtual British Science Week – Year 6+
See all the content from our British Science Week 2023 on our <u>VBSW home page.</u> There are bite-sized videos, 'have-a-go' activities and recordings of the Q&A sessions all on the following 5 topics:

SUSTAINABILITY | EXTENDED REALITY | DIGITAL BANKING | SPACE | ACCESSIBILITY

The content is ideal for Years 6-13 (ages 10-18), and don't forget to download the **Activity Packs** and **Kit List** in the **Teacher Pack** available <u>here.</u>

LIFE AT WORK

<u>Adastral Park</u> is a fantastic campus, and we like to reach as many students as possible to let them know about the opportunities and to inspire and guide them into a bright future.

Work Experience at Adastral Park
Every year we dedicate 9-10 weeks in summer to work experience.
- The 2023 experience period: 22nd May - 28th July
- The 2024 experience period: 20th May – 26th July
- Duration of a work experience: 1 week, Monday - Friday
- Suitable age group: mainly year 10, older students welcome
- Registration of interest for 2023: Closed
- Registration of interest for 2024 opening: 4th September 2023
- Find out more: <u>https://atadastral.co.uk/life-at-work</u>

Insights Experience
This is a half day visit to Adastral Park where you will learn about BT, Adastral Park and Careers opportunities
- Registration of interest: Open now
- Read more and registration link: https://atadastral.co.uk/life-at-work
- School staff with interest in booking a student group (up to 16 students + 2 staff) or a staff group, please get in touch with <u>rika.nauck@bt.com</u> directly. Please allow for a minimum of 6 weeks' notice.

Year 8/9 Assembly lectures
We trialled a Year 8 'Sustainability' assembly for 330 students with great success. A 30-minute lecture using the <u>British Science week material</u> was very well received by students and teachers and built the kick-start to their sustainability curriculum work. This was a first introduction to BT, Adastral Park and the available career options as well.

We are looking into making this a staple of your programme and schools who are interested in participating to build this together with us please get in touch with <u>rika.nauck@bt.com</u> directly.

EARLY CAREERS

Opportunities at BT

Details of our Graduate and Apprenticeship vacancies are at this link: Early Career Opportunities. We are coming to the end of our recruitment cycle for this year, we'll keep you updated in the autumn when more fantastic opportunities for school, college and university leavers programmes starting in Autumn 2024 become available.

MEET THE TEAM

Don't hesitate to contact our fantastic education team - they are here to help you!
email: computerscience@bt.com

Pam Popay, Shane Allum, Luke Johnson, Sarah Mackenzie,Penny Davies, Rika Nauck, Andrew Corston, Carol Fletcher