



**Berkeley
Green
UTC**

**WEEKLY NEWSLETTER
14-OCT-22**



Headteacher's Update

This week has seen a number of exciting developments at the UTC. Last week around a dozen young female and non-binary students applied for a place with the national 'founding 20' STEM development group and we are delighted that three of our students have been selected to take part. Kerris Hall, Chanelle Milligan and Libby Edsall will begin their role at an online meeting with 17 other like-minded students from across the country in early November.

We are also delighted that Raytheon will once again be sponsoring us in an international robotics competition. After coming third in the world last year we will be hoping to come away as champions in the spring. However, there is lots of hard work ahead for our post 16 team before the competition.

We were joined by Rolls Royce this week for the first tech talk of the year, and they will be running our employer project on Friday next week. We are excited to welcome representatives from Rolls Royce into the UTC to continue to help our students develop the high level skills needed in the digital and engineering industries.

Gareth Lister

Rolls Royce Tech Talk

Our monthly Tech Talks from industry kicked off on Wednesday with a really informative talk from Rolls Royce to our whole UTC. It was delivered from a System Design Integration Engineer in the company who had followed a Graduate Scheme route. Not only was it great to hear about a route into engineering in more detail, it was also great to hear his tips on how to enter the industry. We learnt about the fast digitalisation of engineering in testing processes, which really helped evidence the ever growing industry links between our two specialist fields of Engineering and Digital.



Students taking part in the Rolls Royce tech talk

Fly2Help Opportunity

Fly2Help offer young people amazing aviation related experiences, in order to get them interested in a career in the aviation field. They are based at Gloucestershire Airport and have worked a lot with us in the past. Last year they took on over 10 work experience students and gave them the opportunity to meet numerous engineering related companies and explore the technology within planes.

This half term they are offering two day long events at the airport for young people to attend free of charge. If you have a child interested in aviation engineering then the sessions will be from 25th - 26th October or there will be two days for any student interested in becoming a pilot from 27th to 28th October. If you would like to sign up then you can do so through this link - [Aim High - Our Programmes - Fly2Help](#). Lots of our students have attended these in the past and it has resulted in some really good content for CVs and university applications. If you do sign your young person up we would be really keen to hear their feedback, so please do email Siobhan.williams@berkeleygreenutc.org.uk to let us know.



Year 13 chemistry students developing their practical skills

Parents Teams Meeting

At different points in the year the senior leadership team will be hosting an online MS Teams meeting for any parent or career wanting the join. These will always have a different focus on something we do at the UTC. The first of these will be on Wednesday 19th October at 17:00 and the focus is going to be on behaviour, attendance and SEND. There is a form below that will allow you to post any questions you have relating these areas that we will try and answer during the meeting. If the questions are of a personal nature then one of the team will contact you privately.

Link to join - <https://bit.ly/UTCmeeting1>

Link to question form - <https://forms.office.com/r/YVccZzEtcN>



Year 11 graphics students hard at work

Key Stage 4 Curriculum Update

The Year 10 Cyber students created sample companies, and were given the opportunity to design an appropriate response for various cyber threat scenarios.

Eddie Cheung – Teacher of Digital and Cyber

CERN Trip

Last week eight of our year 13 physics students, and one chemistry student visited the Large Hadron Collider (LHC) at CERN in Geneva, Switzerland. CERN is most famous for the invention of the internet, the measurement of the mass of the W boson (the exchange particle which mediates the weak nuclear force) and more recently, for the detection of the long-anticipated Higgs boson.

Our students were treated to a personalised tour of the oldest particle accelerator at CERN, the synchrocyclotron, the main control room of the LHC and the ALICE detector facility. Students were able to quiz our tour guide on the day-to-day working of the accelerators and ask questions about how this impacts our understanding of the universe. This was great revision of the particle physics module studied in year 12, and was an inspiring experience for those students who wish to pursue a career in physics.

The trip consisted of three days in Geneva, allowing students time to explore the city, take in some culture and even go swimming in the lake (it was apparently quite cold).

A similar trip will run in 2023 which will be open to all students currently studying physics in year 12. Further details will be shared with students and parents in the near future.

Lesley Ward – Assistant Headteacher



The main control room at the LHC.



Our tour guide, Mac, talking to students about the various accelerators and detectors located at the vast CERN site.



Jet d'eau on Lake Geneva. Our students discussed, at length, what would happen if someone put their hand into the jet of water which leaves the fountain at a speed of 200km/h.



Students investigating projectile trajectories on the shores of Lake Geneva.



The LHC is enough to even enthuse a PE teacher about physics!

Student Celebrations

Our students have had another strong week displaying the UTC. Here are the individual winners for the week

Year 10

- James Sweeting - 7

Year 11

- Evan Duffield - 9

Year 12

- Evie Bayliss - 3

Year 13

- Archie Pinnell - 3

Sporting Success

On Tuesday afternoon this week 3 students volunteered to represent the UTC at the first district cross country meet of the season. Harvey Marshal Rinaldi, Archie's Fowles and Szymon Wola were part of a 150 strong field. All doing the UTC proud notably Harvey Marshall-Rinaldi finishing a respectable 23rd overall and in the top 10 for his age group and gender.

Parents Evenings

At the beginning of November we have our online parents evenings for year 11 and year 13. To book your appointments please visit the website below. If you have any issues please get in contact with the office.

<https://sgsberkeleygreen.schoolcloud.co.uk/>

ZeroAvia Employer Project Winners

Huge congratulations to Zac, Faith, Georgia and Wilf from 11 Sempre. They were the final winners of the first Employer Project of the year with ZeroAvia and Fly2Help. ZeroAvia specialise in Hydrogen Fuel Cell power for the aviation industry and they set all of our year 10s, 11s and 13s the challenge to research into a zero emissions aircraft. 11 Sempre's final presentation was both highly professional and incredibly informative. All UTC students did well on the day and we are very proud of them. We are now looking forward to next week's project with Rolls Royce.

Upcoming Dates

15th October – UTC open event for new students

19th October – MS Teams meeting with the leadership team

21st October – Rolls Royce employer project

21st October – Last day of term

3rd November – Year 11 parents evening

10th November – Year 13 parents evening



Szymon, Archie and Harvey after their district cross country.



Our ZeroAvia employer project winners

Key Stage 5 Curriculum Update

The Year 12 & 13 Graphics students have been working on their personal investigations. They have been researching the work of other designers and using the components of design to review specific pieces of work. This has developed their analytical skills and critical understanding.

Jennie Peirce – Teacher of Graphics

Rights Respecting School

On Tuesday 11th October the Rights Respecting Student Council met for the first time. The new team were passionate and are committed to their roles and excited for the year ahead. In the meeting, we welcomed new members, congratulated re-elected representatives and discussed ideas for the future. We also deliberated the changes from last year and thought about what their role entails moving forward. Thank you to those who attended. There are still 6th Form leadership roles to be filled. If you are interested in having a lead role in the Rights Respecting Student Council please ask your tutor to show you the PPT created by Jo Brown outlining the roles and responsibilities. If you are in year 12 and would like to be considered for one of these positions, please come along to the next student council meeting on Tuesday 1st November at lunch in 214, with a short presentation on why you would like the role. Year 13 students please express your interest via email to jo.brown@berkeleygreenutc.org.uk

Jo Brown – RRSA Lead

Eco-schools

This week, the Eco Committee met for the first time. Students explained their motivation for involvement and most of them reflected our action plan targets of reducing waste and improving outdoor spaces. Welcome to our new members: Cameron Clark-Smith, Elijah Dewick. Jake McAndrew, Chris Carpenter-Richards, Ruby Pawlyszyn-Thompson and Archie Fowles. We will be meeting fortnightly, on Wednesday Week B at 2pm. KS4 Active Ecology Enrichment will also be doing a lot to work towards our goals. I look forward to working with these brilliant young people to make the UTC a more sustainable place. A reminder to all parents that we strongly encourage students to bring in a re-usable water bottle and a robust pen to reduce plastic waste.

Sophie Whipp – Eco-schools Lead

Apprenticeships

[Aerospace Engineer \(Space Missions\)](#) – Degree – Airbus – £19,255 – Stevenage
[Mechanical Design Office Degree Apprentice](#)– Degree – Airbus – £19,255 – Portsmouth
[Telecoms Satellite Payload Systems Degree Apprentice](#) – Airbus – £19,255 – Portsmouth
[Engineering Undergraduate Apprentice](#)– Airbus - £19,255 –Broughton
[Aerospace Engineering Degree Apprenticeship](#) - – Airbus – £19,255 – Filton
[Test Systems Degree Apprentice](#) – Airbus – £19,255 – Portsmouth
[Test Engineer Degree Apprentice](#) – Degree – Airbus – £19,255 – Stevenage
[Digital Technology Solutions Degree Apprentice](#) – Degree – Airbus – £19,255 – Portsmouth
[Digital and Technology Solutions Degree Apprentice](#) – Airbus - £19,255 –Broughton
[Digital and Technology Solutions Degree Apprenticeship](#) – Airbus – £19,255 – Filton
[Junior Software Engineer](#) - Simulation and Modelling - Degree – Airbus - £19,255 – Stevenage
[Software Engineer Degree Apprentice](#) – Degree – Airbus - £19,255 – Newport
[Software Degree Apprentice](#) – Degree – Airbus – £19,255 – Portsmouth
[Cyber Security Degree Apprentice](#) – Degree – Airbus - £19,255 – Newport
[Cyber Security Apprenticeship](#) - Deloitte
[Digital and Technology Solutions Professional Apprenticeship](#) – Degree – ROWE IT Ltd - £19,000 – Plymouth
[Software Engineer Degree Apprenticeship](#) – Blue Engineering - £16,000 - London
[Apprentice - Software](#) - His Majesty's Government Communications Centre – Level 4 - £18,959 –Milton Keynes
[Degree Apprentice - Electronics](#) - His Majesty's Government Communications Centre – Level 4 - £18,959 – Milton Keynes