



WEEKLY OPPORTUNITIES NEWSLETTER







Dear Student/Parent/Carer, Recording interactions on Unifrog

Could you let Mrs Farmer know if you take part in any virtual or in person opportunities advertised in this Newsletter please? It is important that young people keep an electronic record of all the interactions you have with Further Education, Higher Education and employers. Please email ffarmer@toothillschool.co.uk with the date of the activity and the name of the activity.

Enjoy

The Toot Hill Careers Team

Use the Contents section to skip to the information relevant for you. You can use the 'Back to Top' button to get back to this Contents section.

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Career Of The Week

Geneticist



What you'll do

Geneticists use the information in genes to make discoveries and developments in a range of areas like medicine and agriculture. Depending on the area you work in, your role could include:

- 1. developing disease and drought-resistant crops
- 2. finding and recording disease-causing genes
- 3. using genes to chart animal populations and conserve wildlife
- 4. researching and developing new drugs and gene therapies
- 5. using genetics in archaeology
- 6. teaching students about genetics in a university
- 7. diagnosing genetic diseases

Your day-to-day duties could include:

- 1. using laboratory techniques to prepare and analyse samples of genetic tissue
- 2. recording and interpreting the results of experiments and tests



- 3. using data and statistics to develop computer models of genes
- 4. writing reports for other professionals
- 5. reporting and publishing your findings in scientific papers
- 6. planning lectures and teaching students
- 7. supervising, training and mentoring other laboratory staff

Record relevant activities you've already done on the Activities tool

Working hours and environment

You'll usually work Monday to Friday, 9am to 5pm. You may also need to work evenings and weekends.

You'll spend a lot of time in a laboratory using scientific instruments like microscopes. You may also spend a lot of time working at a computer.

In a laboratory, you'll be expected to wear protective clothing, like a laboratory coat and safety glasses.

Career path and progression

As a research geneticist, with experience you may be able to work your way up to laboratory supervisor or clinical study manager. Lecturing in a university or teaching may also be an option.

You could move into scientific sales or, with further studies, qualify as a genetic counsellor.

Skills required

You'll need:

- 1. practical scientific skills
- 2. IT skills
- 3. the ability to think clearly and logically
- 4. problem-solving skills
- 5. the ability to work with statistics and relevant computer packages

Got evidence of these skills? Record your examples on the Skills tool

Entry requirements

You'll usually need a degree or a postgraduate master's qualification in genetics or a related course which includes genetics, like biology, biochemistry, molecular biology, life sciences or biological sciences.

A PhD, or working towards a PhD would also be helpful.



The Royal Society of Biology has more information on becoming a geneticist.

Related university subject profiles

These university subjects are related to this career; check out their profiles on the Subjects library:

1. Biology and Biological sciences

Related career profiles

You may also be interested in:

- 1. Clinical scientist
- 2. Microbiologist
- 3. Higher education lecturer
- 4. Biologist
- 5. Forensic scientist

Explore

Want to see what relevant education and training opportunities are available right now? Search here:

Biology and Biological sciences at uni:

USA UK Canada Europe Asia Australasia Ireland

College / Sixth Form:

UK

Labour Market Information (LMI)

UK Current Jobs

Natural and social science professionals (SOC3)

UK jobs: 126,500

Nottinghamshire jobs: 1,770 (15th of 214 UK LEAs)

Top 5 LEAs: Cambridgeshire (6,508), Oxfordshire (6,223), Hertfordshire (4,003),

Surrey (3,546), Kent (3,304)

UK Salary



Biological scientists (SOC4)

UK annual median: £33,477

Natural and social science professionals (SOC3)

UK annual median: £40,822

East Midlands annual median: £38,611

Top 3 regions: London (£46,860), Scotland (£42,219), East of England (£41,486)

UK Prospects

Science, research, engineering and technology professionals (SOC2)

UK growth: +9.1% from 2017 to 2027, creating 159,466 jobs

East Midlands growth: +10.7% from 2017 to 2027, creating 12,438 jobs

USA growth: 3.7% from 2020 to 2030, gaining 1,700 jobs per year.

Subject of the week



Toot Hill Alumni

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FREYA ANDERSON

I started at Toot Hill School in 2012 and moved on to the College in 2017. When I was at Toot Hill College I was co-president of the Students Union. I led the organisation of the Christmas College Lunch, the Christmas Party for disadvantaged primary school children and the College Ball. I also took part in the Engineering Education Scheme, organised by Mr Lawrence, which involved my student team working with Boots at their site in Beeston and experimenting in the laboratory facilities at Loughborough University to devise a way to make their on-site HGV's more environmentally friendly. Outside of studying I was a Beaver Leader at my local scout group and volunteered on international camps, as well as completing my Gold DofE.



Whilst I didn't do much traditional 'extra reading'. I learned about specific subjects through film documentaries and podcasts. I would highly recommend the Christmas Lectures on BBC Four and of course the classic Professor Brian Cox and David Attenborough documentaries. When applying for universities, I found that it was important to make the most out of the open days to better compare the courses and the cities. I think that made me stand out and helped put a face to my personal statement because some lecturers recognised me on my first day in classes. The chemistry open days involved the classic parade around the high-tech labs but sometimes they would let us have a go at an experiment. I used this time to ask the student demonstrators questions about their experience with

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the degree and if they had any advice. I also researched ahead of time what scientific papers the department I wanted to study in had been publishing so I could discuss the subject and reference it in the personal statement; chemistry at Liverpool was notoriously strong in inorganic chemistry. The best advice I was given about applying to university was not to worry too much about making the right choice, you will have a good time wherever UCAS/clearing takes you!

After completing my GCSEs and A-Levels (Maths, Physics and Chemistry) at Toot Hill in 2019, I moved to the University of Liverpool to study a BSc in Chemistry. Although online learning in my second year reduced my laboratory time, I enjoyed the challenge of adapting to new methods of science communication. My dissertation research investigated the applications of injectable insulin hydrogel systems for diabetic treatments, and I graduated in 2022 with a First-Class Honours degree. Studying chemistry takes resilience, hard work and a high level of personal drive, it's a challenging course but teaches excellent problem-solving skills.

During my degree, I took every chance I could to develop my skills aside from my grades; I was the leading course representative for my year group throughout my degree, I demonstrated experiments at the Chemistry department open days and helped run outreach events with local schools and scout groups in the laboratories. At any university, on any course, I would highly encourage joining societies to expand your social network. I joined the Chemistry Society and Mountaineering, which gave me amazing travel opportunities. In addition to all of this, moving away from home, learning to work with people from different backgrounds and facing criticism in your work makes you a better professional and is intrinsic to any university experience.

After graduation, I moved to the University of Manchester to study a MSc in Science and Health Communications which I will graduate from at the end of 2023. Even though I love experimental work, my real passion is talking about science (something your science department teachers will agree with). Over the COVID pandemic, the nation had a massive boom in the volume and diversity of science media, meaning scientists had to be able to communicate their research effectively and create trust in their findings. I am therefore pursuing a career in science broadcasting to produce engaging science communication. To support this, alongside my studies I am a science writer for The Mancunian, the largest student newspaper in the UK, and a senior editor and treasurer for Planet Bee Magazine which communicates Manchester students' voice on science.

At <u>The Managinar</u> we pitch ideas for articles at group meetings and volunteer to write on exclusive opportunities offered to the newspaper such as a press briefing or a new science

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exhibition. Our articles are then edited by student subject editors and the piece is published online or in print.

For Planet Bee Magazine, my role is editing submitted science articles and acting on behalf of the committee as treasurer to find funding within university departments for the cost of the magazines printing.

I would advise current students to build skills outside of their academic studies. Simply 'being clever' will not get you far enough. Everyone at university had to be smart enough to get there, how can you make sure people notice you? This is important for any job, not just for students looking at

university pathways. You need to be able to hold a conversation confidently, work together to achieve team goals and adapt to changing environments. For students looking to go into STEM, specifically women, never underestimate the importance of being able to articulate your ideas. In a room full of competitive and individualistic students, the lecturer will remember the student who volunteered an answer, discussed learning in seminars or worked well in a group. There is a lot to gain from you becoming both a great scientist and an excellent communicator.

Careers and Networking Fair

Careers and Networking Fair



Tuesday 17th January 2023

4.30pm - 7.30pm atToot Hill School Years 11–13

- · Talk to employers about what they look for when recruiting.
- · Talk to universities about your A level choices.
- Find out about Apprenticeships, Further Education College & Intermediate, Advanced/Higher and Degree.

Bookings are open on the school website!

See Mrs Farmer in the Careers office for more details.



New Year New Events!

View this email in your browser



Say hello to 2023 with a whole line up of events

. Check out these careers events coming up this term! From virtual to in-person, finance to engineering, multi-brand to insight events, we have it all going on

Check out the events below Secure their place by clicking the links.

Events of the term



<u>Virtual Insight Event with Jaguar Land</u> <u>Rover</u>

Tue 17th Jan | 18:00-19:00



<u>Virtual Insight Event with Lloyds</u> <u>Banking Group</u>

Wed 18th Jan | 18:00-19:00



Virtual Insight Event with GSK

Wed 25th Jan | 18:00-19:00



Virtual Application Clinic with Lloyds Banking Group

Wed 1st Feb | 18:00-19:00





In-Person Female Application Clinic with IBM

Thur 2nd Feb | 18:00-19:00

Virtual Explore Urban Planning

Tue 7th Feb | 18:00-19:00



In-Person Get Into Apprenticeships

Thur 9th Feb | 17:30-20:15

Our Ask Me Anything Sessions are back!

Every Wednesday during term 16:30-17:30. These sessions are tailored to you so whether that's help with their CV, preparing for an interview, or knowing what options are out there for you.

Students can sign up for the sessions via our events page on our website.

2023 webinars and apprenticeships with leading employers



Don't miss our upcoming insight webinars for students, parents and career leaders!

You'll learn about apprenticeship opportunities across the UK's leading



companies, hear from current apprentices and ask questions directly to recruiting managers. We'll be hosting webinars with **bp, CBRE, National Audit Office and Jaguar Land Rover.**

Find out more and sign up through the links below.

Real Estate apprenticeships with CBRE

CBRE has opportunities for everyone and so come and find out what is available at the world's largest Commercial Real Estate firm and help shape the future of the real estate.



On: 24th January 2023 at 6.30 - 7.30 pm

For: Students and parents of those in years 10 to 13. Career leaders and teachers are encouraged to join.

Book your place today

Accountancy apprenticeships with the National Audit Office

Find out about their successful Chartered Accountancy training scheme open to school leavers and gain a professional qualification combined with real work experience.



For: Students and parents of those in years 10 to 13. Career leaders and teachers are encouraged to join.

Book your place today





Apprenticeship opportunities with bp

Explore careers within Software Development, Cyber Security, HR, Trading, Shipping and more! These opportunities are available only for students studying in Greater London.

On: 18th January 2023 at 6.30 - 7.30 pm

For: Students and parents of those in years 10 to 13. Career leaders and teachers are encouraged to join.

Book your place today



Apprenticeships at Jaguar Land Rover - Become the Future of Movement

The evolution of vehicles has never been more exciting. Find out more about apprenticeship opportunities, get hints & tips for your applications, and hear from current apprentices about why they think Jaguar Land Rover is the perfect place to start your career.

On: 8th February 2023 at 6.30 - 7.30 pm

For: Students and parents of those in years 10 to 13. Career leaders and teachers are encouraged to join.

Book your place today





And here are new apprenticeship opportunities with leading companies:



Location: Manchester

On-site event: Introducing new Flying Start

Technology Degree Apprenticeship with Ada College

Click here to register for the event



Location: Bridgewater, Gloucester

Latest opportunities: Radiation Protection,

Maintenance and Operations, Nuclear Engineering, Chemistry, Project Controls, DevOps and Business

apprenticeships

Explore opportunities with EDF Energy



Location: Newcastle and Greater London

Latest opportunities: Apprentice Accountancy

Scheme 2023

Explore opportunities with National Audit Office





Location: Nationwide

Latest opportunities: Customer Service, Service

Technician, Parts Assistant apprenticeships

Explore opportunities with Jaguar Land Rover



Location: Nationwide

Latest opportunities: Customer Service, Parts Sales

Executive, Service Technician, Parts Assistant

apprenticeships

Explore opportunities with Volkswagen Group



Location: Nationwide

Latest opportunities: Building Surveying, Human

Resources, Quantity Surveying and Project

Management, Environmental Consultancy, Real Estate,

Marketing apprenticeships

Explore opportunities with CBRE



Location: Nationwide

Latest opportunities: Medicine & Healthcare

apprenticeships

Explore opportunities with NHS



Location: Nationwide

Latest opportunities: Engineering, Manufacturing,
Software Engineering, Digital & IT, Electrical &
Electronics, Supply Chain, Nuclear Engineering,
Finance, Project Management, Commercial, Materials
Engineering, Non-Destructive Testing, Nuclear
Business, Aerospace Services, Marketing, Quality
Management apprenticeships
Explore opportunities with Rolls-Royce

unifrog

Unifrog Gazette: Book your place on Unifrog's Next Steps Fair

Happy New Year! In this edition: Unifrog's Next Steps Fair > Jo New: Career of the week >



Book your place on Unifrog's Next Steps Fair on Wednesday 8 March

Taking place during National Careers Week, Unifrog's virtual Next Steps Fair gives students a unique opportunity to compare post-school pathways side by side, so they can make the decision that's right for them.

They'll get the chance to meet leading employers, universities, and apprenticeship providers in live sessions and drop by their virtual booths to chat with them directly!

> Sign up or share with your students



Career of the week: Economist



Know a student who's into maths, statistics, and business?

Being an economist is a high-responsibility role that can mean advising governments, keeping an eye on financial trends, and analysing data.

In this Careers library profile, we also show students the skills, qualifications, and career paths they might want to pursue to get into this sector.

> Read more or share

YEAR 10-13 - BINGHAM PENGUINS SWIMMING CLUB - VOLUNTEERING OPPORTUNITY

Penguins Swimming Club will be returning to Bingham when the new Leisure Centre opens but in the meantime it is running from Rushcliffe Arena. They are looking to recruit some new young volunteers to work 1-1 with some of their swimmers.

Penguins has always had a healthy number of volunteers with their club and are looking to recruit more volunteers to work with children.

It is important to them and their swimmers that they have volunteers available and it has always proved to be a rewarding experience for those volunteering. This is a great opportunity to develop your skills and experience and volunteering is highly valued by Colleges, Universities and employers. All students are required to have Volunteering and Work Experience prior to leaving School in Year 11.

This is an opportunity for age 14+ students.

If you are interested please contact Ian Dick on 07712 741837 or email iandick1982@gmail.com - Ian is the Secretary and Poolside Coordinator for Bingham Penguins Swimming Club



If you are successful please do not forget to log this on Unifrog as an activity and also include it on your CV.

Upcoming Open Event





If you would like to attend this please ask them to sign up to our Eventbrite booking, the link is below.



https://www.eventbrite.co.uk/e/january-open-event-2023-tickets-486689811327?utm-campaign=social&utm-content=attendeeshare&utm-medium=discovery&utm-term=listing&utm-source=cp&aff=escb

JAGUAR LANDROVER APPRENTICESHIPS

Jaguar Land Rover apprenticeship vacancies for 2023 have been made live and are open for applications.

Current opportunities:

- ✓ Level 3 Advanced Apprenticeship (Manufacturing or Automotive)
- ✓ Level 6 Digital and Technology Solutions Degree Apprenticeship
- ✓ Level 6 Applied Professional Engineering Degree Apprenticeship Programme (APEP)
- ✓ Level 6 Supply Chain and Logistics Degree Apprenticeship

Find out more and apply from our careers website:

https://eur02.safelinks.protection.outlook.com/?url=https%3A%2F%2Flnkd.in%2FdUmHJGK&data=05%7C01%7Cffarmer%40toothillschool.co.uk%7C03151488bc8841aa374008daf289b7b4%7Cf4ebe22eb55344f388563e0d84908eb8%7C0%7C0%7C638088970546059850%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=8qJ34RJ%2B6E0kwDIIKEoTx%2FBKZ6IslaA9y1q1E%2ByDCYM%3D&reserved=0

In the period of Jan - March, we will be running over 30 events to promote these opportunities both in-person and online. Events include in-person drop in's for Year 11s and Year 13 across multiple Jaguar Land Rover sites offering the opportunity to meet current apprentices, our apprentice cohort leaders and recruiters to get advice on careers prospects and the application process.

Details of all of our events, including details on how to register, can be found on our events calendar on our website here

- https://eur02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.jaguarlandrovercareers.com%2Fcontent%2FEarly-

<u>Careers%2F%3Flocale%3Den_GB&data=05%7C01%7Cffarmer%40toothillschool.co</u>.uk%7C03151488bc8841aa374008daf289b7b4%7Cf4ebe22eb55344f388563e0d849
<u>08eb8%7C0%7C0%7C638088970546059850%7CUnknown%7CTWFpbGZsb3d8ey</u>
<u>JWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTil6Ik1haWwiLCJXVCI6Mn0%3D%7C</u>



3000%7C%7C%sdata=qZ0zZicRxRein3Df1VU%2BNZldM7i8L%2Bn7Qt0LZNSwEn8%3D&reserved=0

ITV LIVE ON-LINE WORK EXPERIENCES

First Step = (year groups 7-9)

Next Step = (year groups 10-13)

Monday 30th January at 4.30pm - <u>ITV "First Step" live online career</u> challenge -

Who should be the main sponsor of Britain's Got Talent in 2023?

Register to attend

Tuesday 31st January at 5pm - <u>ITV "Next Step" live online career challenge -</u> ITVX – Ads or No Ad's that is the question!

Register to attend

Thursday 2nd February at 6.30pm - <u>ITV live online career panel</u> - We invite students, parent to discover more about their career and placement opportunities in data!

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This is an opportunity for age 14+ students.

If you are interested please contact Ian Dick on 07712 741837 or email



iandick1982@gmail.com - Ian is the Secretary and Poolside Coordinator for Bingham Penguins Swimming Club

If you are successful please do not forget to log this on Unifrog as an activity and also include it on your CV.



ROLLS ROYCE APPRENTICESHIPS

Here at Rolls Royce, we have an exciting new opportunity for the Advanced Engineering Apprenticeship programme for various locations including Derby.

The Advanced Engineering Apprentice is a level 3 programme for 4 years or our Nuclear Technician Level 4 for 4 years.

This opportunity will give students a real-world experience, a qualification, leading them toward an exciting career. A real job with a salary, learning while earning and debt free. It is a fantastic start to a new career and an amazing opportunity to develop personally and professionally and establish a career with a purpose.

The online application went live 9 January. For any of the students who should be interested in applying, please see the careers link below.

https://rollsroyce.wd3.myworkdayjobs.com/Apprentice/job/Derby/Rolls-Royce-Advanced-Engineering-Apprenticeship---Derby--UK JR6102870

https://rollsroyce.wd3.myworkdayjobs.com/Apprentice/job/Derby/Rolls-Royce-Advanced-Engineering-Apprenticeship---Raynesway--Derby---UK_JR6103218

https://rollsroyce.wd3.myworkdayjobs.com/Apprentice/job/Solihull/Rolls-Royce-Advanced-Engineering-Apprenticeship---Solihull--UK_JR6103222

Nuclear Technician Level 4

https://rollsroyce.wd3.myworkdayjobs.com/Apprentice/job/Derby/Rolls-Royce-Nuclear-Engineering-Technician-Apprenticeship---Defence-Submarines-Derby--UK JR6103359

EMA Community Christmas Flyer

Welcome to the EMA Community Flyer Christmas Special!



As part of our Local Voices strategy, we're committed to bringing regular updates and communications to our local community, listening to and acting on your feedback.

To find out more about community initiatives like our Community Fund, volunteering and our education and employment programmes please <u>Click</u> Here to read our previous issues.

We are also excited to be hosting a jobs fair at East Midlands Airport on Saturday 4th February 10:00 – 1400. It will be attended by lots of on-site employers including MAG, Jet2.com, Swissport, DHL offering over 100 roles including customer service, hospitality, warehouse, aviation and many more. Parking is free on the day and all the details are on the link. The event is free – if you're interested in attending or know someone who may be, just click on the link to register and a ticket will be emailed to you.

S:\CDMProfile\Downloads\2023 careers fairs posters EMA no QR.pdf



Brooksby Melton College



SMB College Group - Higher Education Parents' Evening Booking Form

This is a fantastic opportunity to learn more about our Performing Arts degree courses and find out what it's like to study at our Melton Campus.



Employer Encounters Through S4S

S:\CDMProfile\Downloads\NAW Pick N Mix Timetable (1).pdf

SPEAKERS FOR SCHOOLS VIRTUAL WORK EXPERIENCE

Work Experience

Click here for more opportunties



Boots Camp – go behind the scenes of this iconic brand

- 7 sessions from 25th January 30th March
- After school 3:30 5pm.
- Click <u>here</u> for more information



BENTLEY

Engineering and Manufacturing

- 24/01/2023
- 10am 3pm
- Click <u>here</u> for more information

Careers at the beating heart of the NHS



- Multiple dates and sessions
- Click here for more information

Virtual talks during National Apprentice week by the Cabinet Office to promote Careers in the Civil Service

Cabinet Office Talks during National Apprenticeship Week (06-10 Feb 23)

Who we are The Cabinet Office Schools Outreach team works with underprivileged, high potential school students, providing employability skills, and inspiring them to consider a career in the Civil Service (CS).

What are we doing

We are delivering a number of virtual 45 minute talks during National Apprenticeships Week (06 - 10 Feb 23) to inform about Civil Service Apprenticeships and other career opportunities within the Civil Service.

Who are they for

We are delivering talks for parents and students, as well as talks for school/college staff, and CS Enterprise Advisers.

Talks for Parents and Students Apprentices will talk to you about what it's like to be a Civil Servant Apprentice, the rewarding work that you/your son/daughter could do, what career opportunities there are for them, the range of benefits that there are and how to apply.

The talks for parents and students are taking place at the following times:

- Tuesday 7 February (3:30 4:15 pm) join the MS Teams meeting here.
- Wednesday 8 February (4:00 4:45 pm) join the MS Teams meeting here.
- Thursday 9 February (3:30 4:15 pm) join the MS Teams meeting here.

C:\Users\8914404-Supply-05\Downloads\National Apprenticeship Week 2023 Advert (1).pdf



If you have any comments or feedback on the Newsletters please email ffarmer@toothillschool.co.uk and not reply to this email as these Newsletters are sent from a no reply email address.

Thank you