



WEEKLY OPPORTUNITIES NEWSLETTER

YEAR 10

w/c 20th February 2023



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

Electronics engineer



What you'll do

You could research, design and develop electronic components and equipment in a range of industries, for example:

- telecommunications – mobile phones, radio, TV and satellite communications
- data communications – PCs, tablets and cashpoints
- scientific research – acoustics, optics, physics and nanotechnology
- medical instruments – clinical and laboratory equipment
- defence – communications, navigation and weapons systems
- aerospace – avionics, radar, navigation and communication systems
- manufacturing – programmable logic controls (PLCs) and industrial machinery

Your day-to-day duties will include:

- assessing new developments or innovations
- preparing technical plans using computer-aided engineering and design software
- estimating manufacturing and labour costs, and project timescales
- co-ordinating the work of technicians and craftspeople
- testing prototypes and analysing data
- making sure projects meet safety regulations
- planning and overseeing inspection and maintenance

You'll often work on a project with a team of engineers, technicians and IT staff. You'll follow electrical health and safety regulations.

Record relevant activities you've already done on the [Activities tool](#)

Working hours and environment

You'll usually work around 40 hours a week. You may work longer to meet project deadlines.

You'll usually work in an office or a lab. You may work in factories, workshops or outdoors.

Career path and progression

With incorporated or chartered engineer status you could:

- move into project management roles
- specialise in research, such as telecommunications, robotics or semiconductors
- work as an engineering consultant

You could also move into patent law.

Skills required

You'll need:

- maths skills
- IT skills to use computer-aided design software
- the ability to analyse problems
- organisational skills
- budgeting skills

Got evidence of these skills? Record your examples on the [Skills tool](#)

Entry requirements

You'll usually need a foundation degree, HND or degree in electronic or electrical engineering, or engineering technology.

Employers may accept qualifications in related subjects like physics, maths or computer science. See the [Institution of Engineering and Technology](#) (IET) for courses.

You could get into this job through an [apprenticeship](#).

Related Know-how guides

Explore Know-how guides related to this career:

- [Get on the ladder: engineering](#)
- [Career specialisms: engineering](#)

Related university subject profiles

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

- [Electronic and Electrical engineering](#)
- [General engineering](#)
- [Physics](#)

Related career profiles

You may also be interested in:

- [Materials engineer](#)
- [Electrical engineer](#)
- [Aerospace engineer](#)
- [Broadcast engineer](#)

Explore

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

Electronic and Electrical engineering at uni:

[USA](#) [UK](#) [Canada](#) [Europe](#) [Asia](#) [Australasia](#) [Ireland](#)

General engineering at uni:

[USA](#) [UK](#) [Canada](#) [Europe](#) [Asia](#) [Australasia](#) [Ireland](#)

Physics at uni:

[USA](#) [UK](#) [Canada](#) [Europe](#) [Asia](#) [Australasia](#) [Ireland](#)

Apprenticeships:

[UK](#)

College / Sixth Form:

[UK](#)

Labour Market Information (LMI)

UK Current Jobs

Engineering professionals (SOC3)

UK jobs: 383,043

Nottinghamshire jobs: 5,727 (15th of 214 UK LEAs)

Top 5 LEAs: Hampshire (11,941), Lancashire (9,111), Essex (8,415), Surrey (8,334), Hertfordshire (8,186)

UK Salary

Electronics engineers (SOC4)

UK annual median: £49,087

Engineering professionals (SOC3)

UK annual median: £43,829

East Midlands annual median: £40,796

Top 3 regions: London (£48,464), Scotland (£46,458), East of England (£45,443)

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

Subject of the week

PHYSICS

Interesting Facts


Time goes faster at the top of the building than at the bottom. According to Einstein's theory of Relativity, the farther an object is from the Earth's surface, the faster time passes.

You can't sink in the Dead Sea. The Dead Sea has a very high density because of its salt content, which would make it impossible for you to sink.

Exams: physics is 100% examination, 3 exams with a mix of multiple choice, written and practical questions.

Careers:
If you did physics at university you could become: an Astronomer, Clin scientist, Radiation protection practitioner, Research scientist and more

Daring to know:
There are many books and documentaries you can read and watch which can extend your knowledge of physics outside of the curriculum such as: Brian Cox Life of a Universe, Forces of Nature and The Quantum Universe.



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DIGIDATA - SHELL LIVE EVENT

We have created a marketing packs that contain a number of promotional assets for you to use both off and online for the live online career challenge event.

Tuesday 28th February at 5pm - Next Step [Shell live online career challenge](#)

Where should Shell build their next electric hub to ensure they hit their clean energy target for 2030?

[Register to attend](#)

Thursday 2nd March at 6.30pm - [Shell live online career panel](#)

We invite students, teachers, parents and career leaders to discover more about their career opportunities

EXCITING NEWS - MEDICAL DEGREE APPRENTICESHIPS-COMING SOON

From September 2023 200 apprenticeships are being launched for medical degrees. Details are in the article below.

[New Medical Doctor Degree Apprenticeship launched, delivering a more representative workforce for local communities | Health Education England \(hee.nhs.uk\)](#)

Higher and degree apprenticeships- latest vacancies; Sites for students to search opportunities; medical degree apprenticeships; changes to UCAS regarding apprenticeships from September 2023.

[S:\Attachments\Apprenticeships boosted under plans to broaden UCAS.docx](#)

[S:\Attachments\Finding apprenticeships including higher apprenticeships.docx](#)

[S:\Attachments\Higher-Degree-Listing-FEB-2023.pdf](#)

[S:\Attachments\Parent-Pack-February-2020 apprenticeships.pdf](#)

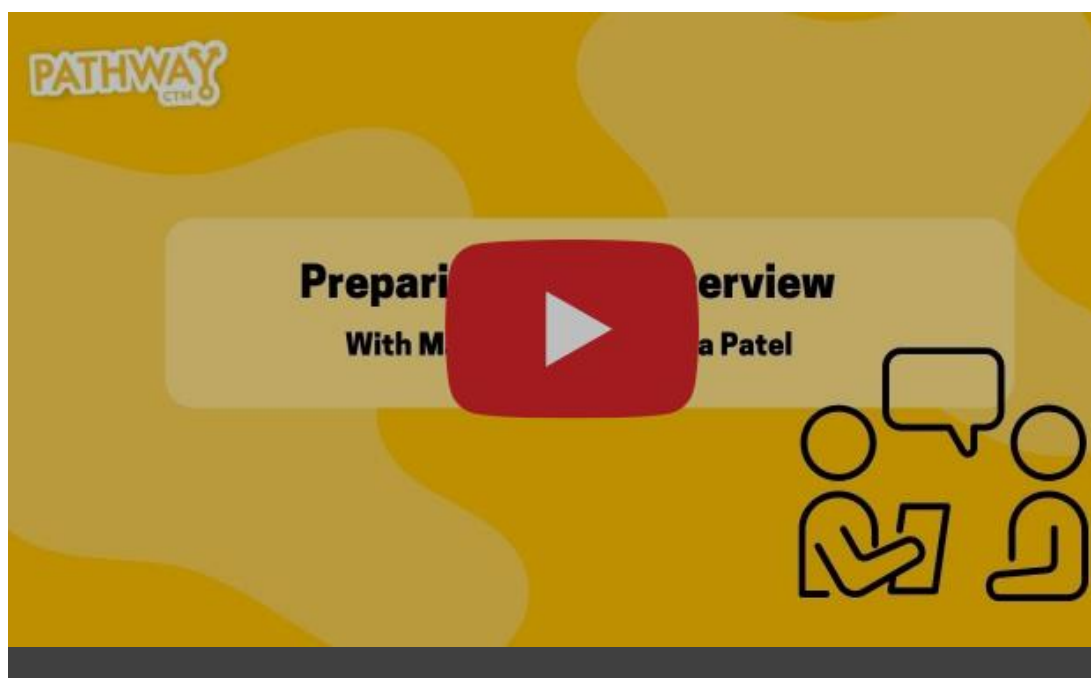
Helping students prepare for interviews!



Helping your students ace those interviews

It's that time of year where some of your students will be deep in apprenticeship applications meaning interviews could be right around the corner. It can be daunting but we are here to give them our TOP TIPS for acing those interviews.

We have released new written and video resources for your students to help them produce strong, competitive applications and achieve their dream role. These videos also feature our pathway alumni who have been successful in achieving an apprenticeship and are featured in the video to give their tips and experience.



[View Resources Here](#)

Application Support?

At Pathway we want your students to succeed! That is why we offer **1-2-1 support sessions** every Tuesday, Wednesday and Thursday during term

time. This is in a form of a **15 minute virtual session** that they can book in where it is dedicated time to them, receiving advice and support wherever they need it. Whether that be through the 1st stage of an application with their CV or the last stage, prepping for an assessment centre.

To book a slot students can email student@pathwayctm.com

UNIVERSITY OF CAMBRIDGE

Year 10 and 11 - Downing College, Cambridge University Taster Webinar

Downing College, Cambridge is running a webinar for Year 10 and Year 11 students at UK state schools who are interested in applying to Cambridge, or who have the potential to apply to Cambridge. This will take place on Wednesday 1st March, 2023 from 5-6:30 pm online. Students attending the webinar will have the opportunity to find out more about the University, and explore what opportunities are available to them in the next few years. There will also be a Q&A with current undergraduate students.

For more information, and to sign-up please see: <https://www.dow.cam.ac.uk/outreach/year-10-and-11-university-taster-webinar>. The deadline to register is the **26th February, 2023**.



YEAR 10 AND 11 - YOU CAN DO SPORT

EXCLUSIVE BOXING EVENT - INVITATION!

YCDS Boxing Academy would like to you to join us for a special event with former Pro Boxer and World Champion Kick-Boxer, Lee Swaby!

Saturday, 4th March, 10am - 12noon

Carl Greaves Boxing Gym, Castlegate Centre, 69 Castlegate, Newark, Notts NG24 1BE

Former Pro Boxer and World Champion Kick-Boxer, Lee Swaby, will be taking a FREE training session at Carl Greaves Boxing Gym.
Come and meet Lee hear all about his career, and enjoy a boxing session with the man himself!

Open to male and females, age 15-18years, or in Years 10 or 11 at school.
Parents & Guardians are welcome to attend also.

This is a FREE event; just email us to register your name.

Who is Lee Swaby?

* 2 x Kick Boxing World Champ

* Pro Boxing credentials -
British Masters Cruiser Weight Champ
2x British Lonsdale Belt Cruiser Weight Challenger
Commonwealth Cruiser Weight Challenger
Midlands area Heavyweight Champ
British Masters Heavyweight Champ

* Former opponent of British Heavyweight Champion Matt Skelton, Derek Chisora and WBC World Champion Tyson Fury!

VOLUNTEERING OPPORTUNITY

BINGHAM PENGUINS IS NOW AT BINGHAM ARENA - SUNDAY AFTERNOON FROM 2.30 PM - 4 PM

Are you interested in volunteering at Bingham Penguins? We would love to hear from you! We welcome people from age 14 +. You may be particularly interested in coming along if you are taking part in the Duke of Edinburgh Award, a Sports Award, you are looking for experience in working with people with disabilities or if you are keen to get some volunteering experience for your C.V.

We offer training sessions twice a year and will pair you with an experienced volunteer to start with. You will always be under the supervision of a qualified swimming instructor. Volunteering at Bingham Penguins is a hugely rewarding experience and everyone always leaves with a big smile!

If you are interested in volunteering, please can you email secretary@binghampenguins.org for more information.

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