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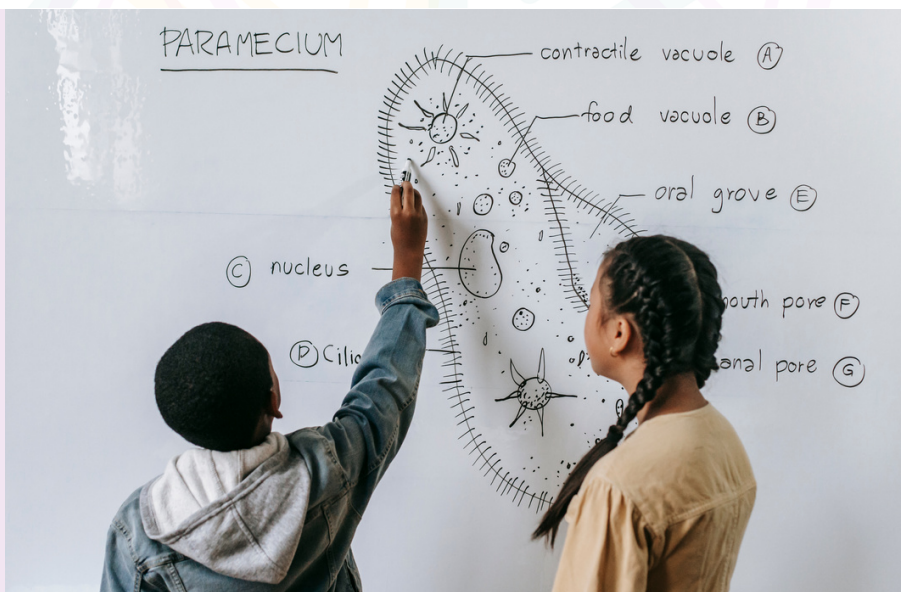
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## WELCOME

Welcome to our November issue of the Sunderland Digital Careers newsletter. Keep on reading to learn more about our free upcoming activities and events for students.

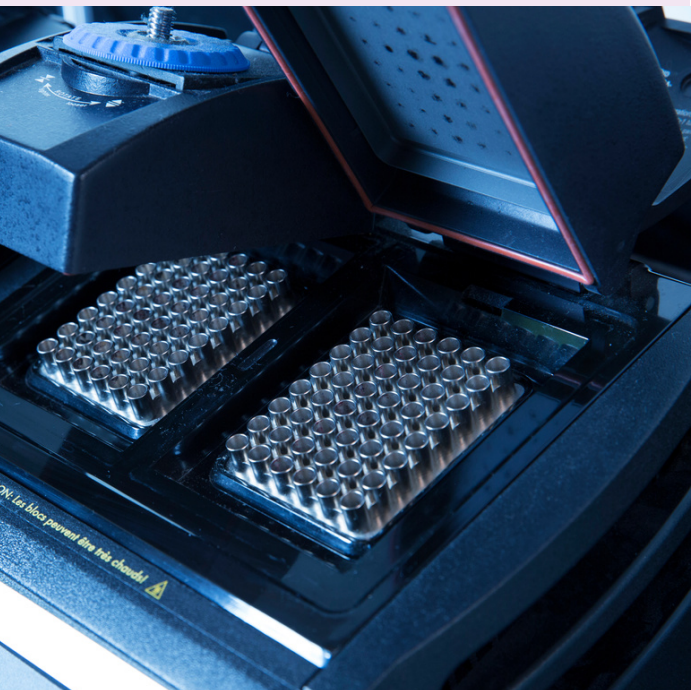
In this newsletter, you will find information on our upcoming events, including our 12 days of Techmas.

We will also be looking at the exciting careers of those who work in the field of biology!

As always, we have a career highlight to show you some wonderful job roles that are out there and continue to look at options available to you after school.

If you have any questions about the newsletter, please get in touch:

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# SKILLS FOR BIOLOGY

Within the biology industry, there are hundreds of jobs which all require different skills, most of which you will be developing now and already using every day!



**Communication skills** will help to ensure work is completed to a high standard and everyone is doing their jobs correctly.

**Attention to detail** will help you and your colleagues ensure projects are finished properly and without mistakes.



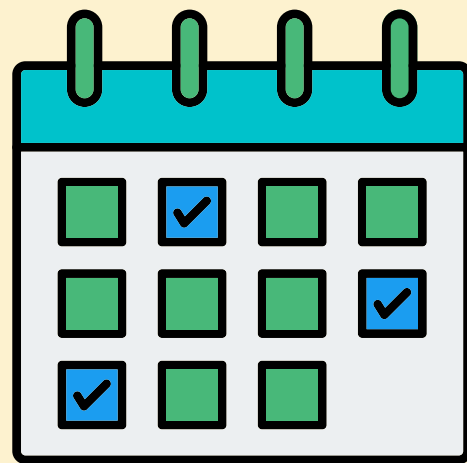
**Maths skills** are always useful and are often used in biology too. Examples include measuring materials, making observations or calculating differences.

## DID YOU KNOW?

On average, there are 100,000 miles of blood vessels in the human body

Bacteria can be beneficial as well as harmful to humans, plants and animals

The average human is made up of around 7 octillion atoms (thats 7,000000 000000000000000000000000!)



## TERM CALENDAR

**Thursday 1st December**

12 Days of Tech-mas

**Saturday 10th December**

Nobel Prize Day

**Friday 23rd December**

Christmas Break  
Tech Challenge

## 12 DAYS OF TECH-MAS

Look out for lots of fun activities, challenges and opportunities coming up in the first 12 days of December!

Each day will have a challenge, resource or activity you can get involved in, themed around different areas of tech, from computer science to film production.



# CAREER HIGHLIGHT: BIOTECHNOLOGIST

Biotechnologists create and develop innovative products designed to improve the quality of human life, using specialized biological knowledge and techniques.

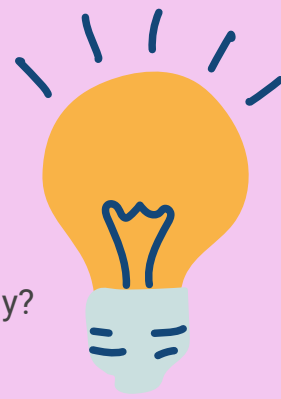
Biotechnologists study the chemical, genetic and physical attributes of cells, tissues and organisms in order to develop new technologies, processes and products. Their job involves manipulating living organisms or their components to design or enhance vaccines, medicines, energy efficiency or food productivity and safety.

Biotechnology is an ever growing industry in the UK and you can find work at biotechnology and other commercial companies, research or higher education institutions, government laboratories and hospitals.

The starting salary for a biotechnologist after graduating is £19,000-£24,000, rising to £25,000-£50,000 once experienced, and £60,000+ at senior level.



# WHAT TO DO AFTER SCHOOL



Did you know you can combine work and study? We will show you some options for this in the upcoming newsletters.

## APPRENTICESHIPS

Intermediate, advanced higher and degree apprenticeships combine practical on-the-job skills training with off-the-job learning. You'll get training that is relevant to your job and be paid a salary.

With an apprenticeship, you'll spend 80% of your time in the workplace and 20% off-the-job with some study in a college, training centre or Institute of Technology (IoT).

The duration of an apprenticeship will be a minimum of 1 year, and entry requirements will depend on the industry, job role and apprenticeship level.

Once you have completed your apprenticeship, it could lead to work, next level of apprenticeship, further education or higher education.

## SOCIAL MEDIA

Click on the social icons below, or visit our website for lots of fantastic resources!



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Skills Resources

For more information on digital/tech careers and additional information on anything featured in this month's newsletter, please contact: [jessica.sawyers@sunderlandsoftwarecity.com](mailto:jessica.sawyers@sunderlandsoftwarecity.com)