

Jobs of the Future!

What will your Journey look like?







ART & DESIGN

Augmented Reality Virtual Reality Designer

Augmented reality is about overlaying fictional digital elements onto real environments – like in Pokémon Go – while virtual reality is an entirely computer-generated world.

This is revolutionising not only the world of gaming but also tourism, medicine, education and many other areas of work and life.

Combined with technical skills, art and design students could use their creativity in this role to imagine the worlds we will occupy in these new augmented realities



Biology

Antibiotic Engineering

The widespread and sometimes reckless use of antibiotics to treat human and animal disease means that some bacteria are becoming resistant to the drugs we use to kill them.

We need to create new antibiotics to replace the old ones to avoid a return to the pre-antibiotic days when routine infections could lead to death.

Microbiologists create antibiotics by testing newly discovered chemical compounds to see if they can provide resistance to bacteria, so Biology students' analytical and lab skills leave them well-placed to pursue a career in antibiotic engineering.



Computer Science

Al Engineers

Al is already playing a growing role in our world.

We've got virtual assistants like Siri and Alexa in our homes.

This is also the technology being used to develop self-driving cars.

Computer scientists use their programming skills to work on new forms of transport or help maintain the automated systems that make everything from food to computers.



PE Health Data Analyst

With more and more data being collected about patients, it's essential to have people who can interpret this.

Perhaps surprisingly, students learn data analysis skills when they study PE.

This helps students interpret the information that's collected and allow them to make recommendations to improve the lifestyles of individual patients or groups of people.



Drama	
Voice Actor	

Video games are growing in popularity. The introduction of augmented reality (AR) and virtual reality (VR) will see this industry evolve in the coming years.

The characters that appear in these video games need voices. Players want to believe they're interacting with a real person.

Businesses also need real people to provide the voices for their virtual assistants.

Drama students develop voice acting skills, providing opportunities to move away from traditional theatre



Sociology Climate Change and Sustainability Researcher

As societies are forced to adapt quickly to the threats from climate change, someone is going to need to plan our way through the big social upheavals that will ensue, and help people adapt to very different ways of living.

Climate change and sustainability researchers will think about what the radically different societies of the future will look like and how we get from here to there as smoothly as possible. They will carry out quantitative and qualitative research through interviews, surveys and data analysis.





A futurist works in the field of futurology.

It's becoming more difficult to predict what's going to happen and governments are looking for people who can provide reassurance on the best way to move forward.

History students' critical thinking skills prepare them well for this role. They will communicate how the world is changing to the general public and explain how this might affect the global population.



Geography

Aerial or Underwater Robot Operator

There's exciting new technology for carrying out surveys, including remote-operated aerial drones, which can be used to assess disaster zones.

Remote-operated underwater vehicles can be sent to survey the deepest parts of the ocean and help us learn more about this fascinating environment.





Languages

Translator and App Developer

The need to communicate across borders is growing.

Linguists can use their language knowledge and skills to develop translation apps.

They can also help programmers think about user experience and cultural differences when creating apps to help support global communication.





English

UX and Human-machine interaction Designers

Every machine needs an interface.

Working out the best way for people to communicate with and operate new technology is a specialist job.

These professionals work with people as well as new technology to test ideas. Listening to and collecting feedback from end users and then explaining the changes that need to be made to designers is all part of the process.





Maths Blockchain Specialists

Blockchain is a system that works with cryptocurrencies, which are a form of digital money. Bitcoin is the bestknown cryptocurrency, but there are many others.

With more businesses and individuals starting to use cryptocurrencies, there's a need for people with mathematical and computing skills who can make this new financial system run smoothly.

Understanding cryptocurrencies will also be useful if you want to work in financial investment roles.





Design and Technology

Robotics Designer

According to the latest Future of Jobs report from the World Economic Forum, up to 37% of companies plan to invest in robots by 2022. These vary from humanoid robots to stationary robots, and aerial or underwater robots.

Businesses in the oil and gas sector are investing in the development of aerial and underwater robots, which will need to be designed for a variety of tasks.

Design and Technology students could use their design skills to develop robots people enjoy interacting with?





Business Automation Implementation Specialist

Automation poses a number of issues for businesses. On the one hand it can make them more efficient and therefore profitable; on the other it's expected to lead to job losses. Managing the transition to greater automation will need specific skills.

Businesses need to understand the new technology and how best to use it for their company. Automation implementation specialists need to manage people carefully, which might include retraining or upskilling workers who will lose existing jobs due to automation





Chemistry

Organometallic Chemist

This is a field that's expected to grow within chemistry.

It's the study of chemical compounds that have metal-carbon bonds, as well as their reactions. It's essential for many industrial processes.

Research in this area could lead to new processes or products in sectors like energy production and pharmaceuticals.





Music

Video Game Composer

As the universes and plotlines of video games become richer and more vivid, their soundtracks are increasingly taking on the character of film scores and the great orchestral works of the past.

Composers use their vast creativity and imagination, as well as their technical ability, to craft memorable and well- matched musical scores to complement the worlds evoked in video games.

Physics

Satellite Developer

The UK's space sector is one of the fastestgrowing areas of our economy.

We rely on satellites for everything from our mobile phone networks to data about climate change.

Knowledge of physics principles is essential to develop working satellites.

Physicists use practical skills to test their ideas and communication skills to explain their findings to colleagues, partners and clients