



CAREERS @ NEWSTEAD



Careers of the Future

Message from Mrs Brown

Happy new year, I hope you had a lovely Christmas break.

As part of the ACE programme this term is all about 'CONNECTION' and there will be a series of events to connect students to the world of work where they will have the opportunity to gain a deeper understanding of a range of careers as well as future growth sectors.

*Some of the key events coming up include our freshly launched "**Future You**" **Careers Fair** on the 20th March 3-6pm where we open our doors to a range of employers, education establishments and apprenticeship providers to help raise aspirations, dispel myths and support students to make informed decisions about their future career path. This event will be open to students and their parents/carers.*

*Furthermore as part of **International Womens Day** we will be heading out to a leading American Law Firm that will no doubt inspire the future generation of budding lawyers!*

Add a little bit of body text

In her book, *Les Metiers du Futur* (Jobs of the Future), Isabelle Rouhan believes that 85% of the jobs that we will have in 2030 do not exist yet. Society is going through major transformations; our lifestyles and consumption patterns are changing, and technology is constantly evolving.



It doesn't matter what career path students of today choose, technology will play a significant role in all aspects of their lives. Advice for students is to be flexible in this fast changing world.

The Mayor of London has produced a document: "Careers in London's Growth Sectors"

Spotlight on Green Jobs

Green jobs directly contribute to or indirectly support, the achievement of the UK's net zero emissions target & other environmental goals, such as nature restoration and mitigation against climate risks. Examples of green-related jobs: Insulation installers, renewable energy engineers, electric vehicle mechanics, sustainability consultants, environmental economists

Net zero focus

Home & buildings—includes building new energy efficient homes, smart devices, hydrogen boilers

Low carbon transport—low/zero emission vehicles, public transport, walking, cycling

Power—renewable energy, smart systems technology

Climate adaptation—retrofitting of buildings to be resilient to extreme weather/climate events

Reducing localized pollution—London has goals across all three areas – air, noise, water

Rubbish—reduce, reuse, recycle

Green infrastructure—this will include increasing biodiversity

See below for some careers of the future, together with suggestions of training/studying required

Rewilders

These are the transformers who will turn a concrete jungle into a green belt. Rewilders will focus on undoing two centuries of industrial revolution, replacing aging factories & unneeded buildings/roads with forests & native species. Rewilders will need a background in agriculture, wildlife management & environmental science.

Earthquake Forecasters

Businesses and governments will be hiring earthquake forecasters in the near future due to climate change. A background in geology and geophysics will be useful for this job

Autonomous car mechanics

Autonomous cars are being produced by Tesla, Hyundai, Ford and others, which will be able to drive themselves, but they won't be able to repair themselves. Therefore there will be a need of mechanics with an understanding of technology. Once again there are plenty of relevant education providers.

Neuro Manager

The precuneus, found in our brains, determines our ability to be happy. In the US, some companies are already trying to introduce this exciting area of research, which could improve general employee well-being. To become a Neuro Manager, you will need to train in neuroscience and study the biology, psychology and chemistry of the brain

An organ creator

The New Zealand-based website Crimson Education speculates that the shortage of transplantable organs will lead scientists to create organs and body parts. Recruiters will be searching for candidates with a background in molecular biology, tissue engineering or biomedical engineering

Cybersecurity

Virtual attacks can be dangerous & expensive for a company, but with an increase of technology, they will be on the increase. An ethical hacker will always have to be one step ahead of cybercriminals and anticipate possible attacks by detecting website flaws. There are a large numbers of university courses in the UK offering relevant degrees.

Connecting curriculum to careers

There is a huge amount of education providers if you would like to continue your studies to help the **World Around Us**. The main A Level subjects for the following degrees are maths, science, geography, although it depends on the degree. If you want to get involved at an international level, MFL would be useful.

Interested in predicting climate and climate change? The Dept of Maths at the University of Liverpool offers a degree "Mathematics with Ocean and Climate Sciences" in conjunction with the National Oceanography Centre. This degree provides an understanding of how the ocean and atmosphere operate in the climate system, as well as offering a strong grounding in mathematics. Grades for this degree are ABB.

Are you fascinated by how the Earth works? An environmental geoscientist uses their understanding of the planet and its processes to predict hazards like floods and earthquakes, to clean up dangerous waste & to help civil engineers plan the construction of new roads, tunnels and buildings. Different processes that happen on our planet like acid rain & global warming will also be explored as part of this degree at Cardiff University. Grades required are ABB-BBC.

Always try to **gain work experience or to volunteer** in an area in which you want to work. Extra/super curricular is very important for your CVs or Personal Statements. For this sector try: The British Red Cross, the Disaster Emergency Committee, St John's Ambulance, Groundwork UK, the National Trust, Vinspired etc.



Do you want to play a role in preparing for disasters such as floods, earthquakes and terrorist attacks?

Then "International Disaster Management and Humanitarian Response" is the degree you need. Help minimize the impact or get involved in the emergency response when they occur, with events such as the refugee crisis, Grenfell Tower, the Ukraine war, the scandal of female genital mutilation etc. You will need AAB for entry to University of Manchester for this degree.

Do you want to understand the complexity of the climate emergency that is currently facing our planet?

Aberystwyth University offers an "International Relations and Climate Change" degree. BBB-CCC are the entry requirements. The programme focuses on evaluating the nature of climate emergency and it's political, economic, social and human responses.

What's coming up at Newstead

"Future You" Careers Fair: Monday 20 March 2023

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International Women's Day trip to Sidley Austin, a prestigious American Law Firm in the City of London

All the information that we produce can be found on the Newstead Wood Website, click on "Curriculum" and then "Career Learning and Development"

For any further information, please email Mrs Brown or Mrs Green on careers@newsteadwood.co.uk