

CEC Primary Project Careers for 2030 Road Map 1 Public Sector



Task 1

Please think about what types of career you would like in the future.

Give 2 careers you would like to do.

Career 1 Career 2



Careers

When I grow up, I want to be a

I might also want to be

I am choosing this career
because

Three things I am good at are

**My Future
Career**

What is the Public Sector?

The Public Sector is responsible for providing all public services in the UK. These include:-

Emergency Services

Police
Ambulance
Fire Service

Healthcare

NHS (Hospitals)
Doctors
GP's
Consultants

Social Care

Social Workers
Residential Care,
Youth and Community Work
Housing

Armed Forces

Army
Navy
RAF

Education

School
College
Universities

Other

Secret Service
(MI5, MI6)
Security Services
Government (MP's, MEP's, Priminister)
British Museums
Refuse Collection
Prison Service

Who pays for the Public Sector?

The tax payer - we do!!



Task 2 - What careers didn't exist in the Public Sector 10 years ago?

Can you guess what type of work you would do in the following choice of career -
 please select 1 career only

1. Drone Operator

What I would do

What are drones used for in the Public Sector?



2. Cloud Computing Specialist

What I would do

How is this used in the public sector



3. Waste Management

What I would do

How is this used in the public sector



What careers didn't exist in the public sector 10 years ago?



Drone Operators

Are now being employed by Law enforcement Agencies to police more efficiently. They are used to collect evidence and conduct surveillance. There are careers available as drone operators and developers.



Social Media Manager

Local councils now use social media including Twitter and Facebook to ensure engagement with local residents, better customer services that are important to local people.



App Developer

Police use apps such as Stash Cat which allow the police to stay in touch and communicate with each other in a secure way. They can send messages instantly to a member of their team in different parts of the country at any time of the day. This can all be done on an iPhone.



Cloud Computing Specialist

An icloud allows you to save all of your documents (photos, videos, documents, music, etc) in one place. It also allows you to access your documents from your device as well as keeping your folders safe and up to date across all your devices.

Sustainability Manager

Such as those that work for the fire service.

Sustainability means "development that meets the needs of the present without compromising the ability of future generations to meet their own needs" sustainability managers for the fire brigade focus on Projects that will help everyone breath cleaner, safer air by running zero emission fleet by 2050. To better protect the natural environment in the way they - fight fires. Help to prevent and reduce the number of fires and educate people how to do this.



Web Analyst

A web analyst job is to analyse data gathered from websites in order to identify problems and opportunities and help companies such as the NHS identify the best way to fix problems. It may be to analyse feedback from patients and put an action plan in place that helps them to reduce issues.

Waste Management

Councils plan the waste management and recycling for all of the rubbish produced in our homes and in our country. For hundreds of years humans dug a hole and simply buried their waste. This was an effective way of preventing bugs and rodents from spreading disease. Now in the 21st century burying our waste is not sustainable and modern waste is damaging the soil, ground, water and the environment and therefore the health of the planet.



Task 3 – What Public Sector careers will exist in 2030?

Can you guess what type of work you would do in the following choice of career.

Please select 1 career only.

1. Drone Traffic Optimiser

What would this involve?

What skills will I need to do this job?



2. Rewilder

What would this involve?

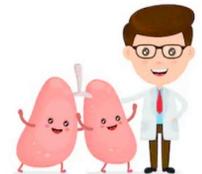
What skills will I need to do this job?



3. Organ Creator

What would this involve?

What skills will i need to do this job?





Public Sector Careers what will exist in 2030

10 years is a very long time in terms of tech!! 10 years ago we lived in a world without smartphones, apps, skype and facebook. It is hard to predict what will happen in another 10 years. Here goes....



Organ Creator

There is a shortage of transplant organs (heart, liver, kidney, lungs etc). So in 10 years time lead scientists will be able to create organs and body parts from stem cells. You will need to study molecular biology, tissue engineering and biomedical engineering.



Drone Traffic Optimiser

They will focus on drone paths. In 10 years time more drones will be used across all sectors including the police. Drone traffic optimisers will help plan flight paths to avoid accidents.



Rewilder

Radical Transformers will potentially turn a concrete jungle into green belt. They will focus on converting waste land, factories and high rise blocks into forest and green belt, you will need qualifications in agriculture, wildlife management and environmental sciences



Waste Engineer (Waste Designers)

We produce over 2 billion tons of rubbish every year and are running out of places to put it. So waste engineers will be employed to find efficient ways to use and reuse their products. You will need qualifications in materials sciences and you will have a huge impact on society.

Must Do Travels
Friday at 03:00 · G

Vertical Forest Skyscraper in Milan, Italy

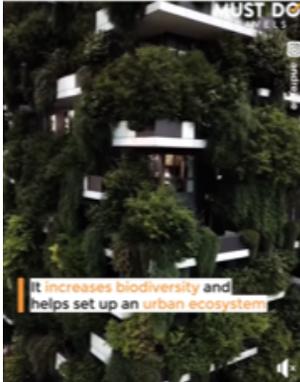


Hosting **800 trees**, **6,500 shrubs** and **15,000 plants**

348 comments 2.2k shares

Must Do Travels
Friday at 03:00 · G

Vertical Forest Skyscraper in Milan, Italy

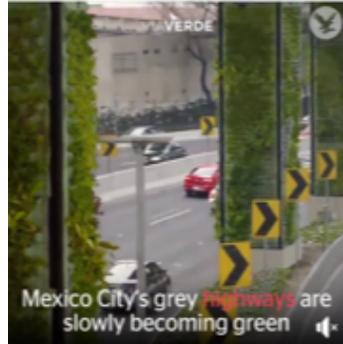


It **increases biodiversity** and **helps set up an urban ecosystem**

10.9k 348 comments 2.2k shares

The Independent
Sunday at 15:31 · G

Mexico City is innovating

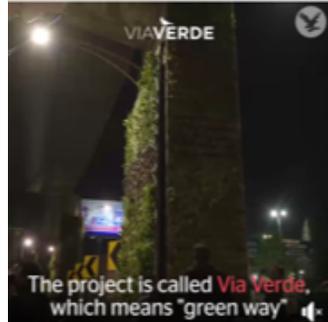


Mexico City's grey **highways** are slowly becoming green

7k 161 comments 2.1k shares 256k views

The Independent
Sunday at 15:31 · G

Mexico City is innovating



The project is called **Via Verde**, which means "green way"

7k 161 comments 2.1k shares 256k views

Mind Transfer Specialist/Memory



Memory surgeons may be able to remove negative memories, treat depression and other psychological illnesses. It may be possible to upload a human mind to a computer that could help eliminate paralysis and enhance memory.

Police 2030



The first robot police officer was on patrol in 2018 in Dubai. The public were able to report minor crimes using touch screen on its chest. By 2030, robots will make up 25% of the force. As robotic technology advances, their uses will also expand significantly for both military and policing. High tech computer technology and robotic careers will be created along with programming and computer roles.

Police robots are designed to allow access to situations that are inaccessible or dangerous for first response and humans.

Teaching in 2030



VR (Virtual Reality) will be the norm in schools 2030. you will be able to experience other countries, architecture, rivers, oceans, world history etc and they will all come to life using VR glasses. Chat-room tutoring will transform teaching and will mean that students are able to access - all subject materials on-line and live chat by specialised teachers every hour to receive instant feedback for completed assignments. For these teaching careers you will need to specialise in digital technology, VR technology as well as your teaching degree.

Care

Key skill requirements have not changed much over the past 15 years, the tools and scope of the job have. You are not just a care assistant but a cook, cleaner, companion and a well being monitoring assistant. The profession will continue to boom because robots do not possess the traits which make humans good carers - these traits include compassion, humour, patience and kindness. People are living longer and want to stay in their homes which means carers in 2030 will help clients to adapt to their homes, decide on what technology systems they need including wearing technology to measure blood pressure, blood glucose, sleep patterns etc. This information will be 24/7 addressing issues before they lead a hospital trip.

QUOTE: Loneliness is now and will continue to be a social epidemic



Army/RAF/Navy

Future predicts enemies will be able to attack more lethally and by land, sea, air, space and online. The army of the future must be more mobile, with smaller teams that can fight all types of warfare. The forces will use the best smart phones, drones and computer hardware on the battlefield. Warfare will become more urban as 60% of the population will live in cities by 2030. the internet will be a key part and the army will be responsible for preventing cyber attacks and troll armies spreading fake news. High tech roles will be created and the government will have a huge focus on security.





Task 4 - Personal Skills

What personal skills do you think are important now?

1.

2.

Do you think they will change in the future?

If yes, how do you think they will change?

.....



What personal skills will you need in 2030?



Complex Problem Solving
as technology becomes more complex, so will your problem solving

Team Player
we will always have to work with others and get along with people

Adaptability
Learn to adapt and deal with different situations and changes



Creativity

Robots were only created because a human had the idea in the first place. Creativity is a gift.

Negotiation

Learn how to get the best out of people or customers

Communication

continue to speak to people and learn to express yourselves



People Skills

Learn how to manage and work with people which includes listening and getting in touch with your emotions. Being able to motivate manage and delegate people is important.

Initiative/Entrepreneurship

learn to think "outside the box". The future will always need people to design new concepts. You must learn to expand your mind.

Task 5

Now you have listened to the presentation about the public sector, would you consider a career in this sector?
If yes what career would you consider and why?

Career 1

Why

Career 2

Why

Questions & Answers

