



The Holy Family

Catholic School

a voluntary academy



July Careers Newsletter 2023

Welcome to the next edition of the Careers Newsletter, for this newsletter we will focus on the Environment and Green Sector.

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This Month's newsletter will focus on Careers within the Green Sector



What Green Skills Do We Need?

Listening

Use these skills to communicate and negotiate complex problems that are related to improving a greener economy.

Speaking

Use these skills to consult and advise people about green solutions and to spread the use of green technologies.

Problem Solving

You use these skills to analyse interpret and understand both the need for change and the measures required.

Creativity

Use creativity to seize the opportunities of low-carbon technologies and processes required to 'green' their jobs.

Staying Positive

For this you will use tactics and strategies to positively promote the greener products and services.

Aiming High

You do this by being innovative and able to identify opportunities that create new strategies that respond to green challenges. Other skills needed are leadership and teamwork.

[Core Skills for Green Jobs | Barclays LifeSkills](https://d2n2.startprofile.com/page/green-careers)
<https://d2n2.startprofile.com/page/green-careers>
<https://www.bachelorsportal.com/search/bachelor/environmental-studies-earth-sciences>

What is an example of a green career?

Green jobs are jobs that have a focus on either reducing carbon emissions, restoring nature, or making similar environmental improvements. Sustainability managers in businesses, green transport officers and thermal heating specialists are all examples of green jobs.

What are the six sectors of the green economy?

Renewable energy. Water Management
Green buildings Waste Management
Sustainable transport. Land Management

Four pillars of the green economy?

Human, Social, Economic and Environmental.



The Green Pathway

See example below:



GCSE

English	English	English	English
Maths	Maths	Maths	Maths
Physics	Graphics	Biology	Physics
Geography	Design Tech	Chemistry	Engineering

A Levels

Maths	Maths	Maths	Maths
Physics	Graphics	Biology	Physics
Geography	Physics	Chemistry	Engineering

BTEC

Applied Science	Mechanical Engineering	Construction & the Built Environment	Animal Care
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DEGREE

Mechanical Engineering	Graphic Design & Architecture	Environmental Science	Zoology
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Grades 4 & above will what you need to aim for in GCSEs.
A level A-C

Green jobs of the future?

As we move towards greener ways of living, there is an increasing demand in the construction industry for architects who can design more eco-friendly buildings and labourers who can construct them. With the energy crisis playing out globally, the need for renewable energy is crucial too. Engineers in this sector are in demand as energy companies seek skills in hydroelectric power, solar power, and wind turbines. The [WWF](#) state that the agriculture industry consumes around 69% of the earth's fresh water, and they're helping to find better management practices to conserve the world's natural resources.

There will be a need for agricultural innovators and engineers to find new ways of working, while reducing water usage and other contributors to climate change. The transportation industry is also one of the biggest polluters globally, [accounting for 24%](#) of global CO2 emissions from fuel combustion. An emerging green job is that of a clean car engineer who will look for ways to manufacture cars in a more sustainable way, without the use of fossil fuels. There will also need to be a shift within the whole industry to travelling in the most efficient way, with less dependence on cars and planes. With the rise of apps like [Depop](#) and [Vinted](#), the fashion industry has also come under the microscope when it comes to sustainability. As well as new opportunities in construction, farming, and [sustainable manufacturing](#), there will be an increase in more jobs within the science and legal sectors too.

Oceanographers will be asked to study our seas, measuring things like water temperatures, marine life, and the number of chemicals present. An oceanographer can [earn up to £60,000 a year](#) and the job could take them all around the world. Environmental scientists, conservation scientists, and geoscientists are just some of the jobs that will be available in the scientific community. Their specific emphasis on preserving the planet will stand them in good stead as they look for developments in the earth's ecosystems and offer advice on the best way to manage land. Sectors such as agricultural, transportation, fashion, farming, and construction will all require a more sustainable way of working, opening up jobs in engineering and manufacturing.



What is Green all about? (See Below)



Sustainability

Is a social goal about the ability of people to co-exist on Earth over a long time. Specific definitions of this term are difficult to agree on. They have varied with literature, context, and time. Experts often describe sustainability as having three dimensions.



Renewable energy

This energy is taken from renewable resources that are naturally replenished on a human timescale. Renewable resources include sunlight, wind, the movement of water, and geothermal heat. Although most renewable energy sources are sustainable, some are not.



Waste management

Waste management or waste disposal includes the processes and actions required to manage waste from its inception to its final disposal.



Sustainable development

Sustainable development is an organizing principle that aims to meet human development goals while also enabling natural systems to provide necessary natural resources and ecosystem services to humans.



Environmental protection

Environmental protection is the practice of protecting the natural environment by individuals, groups, and governments. Its objectives are to conserve natural resources and the existing natural environment and, where possible, to repair damage and reverse trends.



Green building

Green building refers to both a structure and the application of processes that are environmentally responsible and resource-efficient throughout a building's life cycle: from planning to design, construction, operation, maintenance,

Apprenticeships are there any green apprenticeships?

The apprenticeships are the gold-standard for green skills training, encouraging more people to take up the opportunity to gain the skills to build an exciting career in the green industry while meeting the skills needs of employers and boosting economic growth, one of the Prime Minister's 5 priorities. These gold-standard, sustainable apprenticeships offer people the chance to embark on exciting new careers in industries from forestry to construction and contribute to creating a more sustainable economy. These six apprenticeships were selected in honour of His Majesty The King's Coronation who has a long-term commitment to the environment, and sustainable energy.

The six apprenticeships are:

Countryside Worker (level 2)	Forest Craftsperson (level 3)
Low Carbon Heating Technician (level 3)	Installation Electrician and Maintenance Electrician (level 3)
Sustainability Business Specialist (level 7)	Corporate Responsibility and Sustainability Practitioner (level 4)

The UK has several apprenticeships in ecology and environmental management roles. See below for more details.

Countryside Worker – Level 2 (12 Months)

Forest Craftsperson – Level 3 (24 Months)

Countryside Ranger – Level 4 (26 Months)

Environmental Practitioner (Degree) – Level 6 (60 Months) **Geospatial Mapping and Science Specialist** (Degree) – Level 6 (60 Months)

Ecologist (Degree) – Level 7 (36 Months)

These apprenticeships are great to get a career started and can offer qualifications up to level 7 (the same as a master's degree). The fact they are practical and on-the-job means they are great if you love getting hands-on with work or prefer to learn outside of the classroom. As an apprentice, you will be paid a salary and be part of a team, but you will also benefit from dedicated time during the week to study for your qualification. There are a range of qualifications that are equivalent to GCSE to master's degree.

<https://youtu.be/pBnhfeNM86Y>

Useful Websites

<https://jobhelp.campaign.gov.uk/improve-your-chances-of-getting-a-job/green-jobs/>

<https://www.learningcurvegroup.co.uk/courses/learners/level-2-course-climate-change-environmental-awareness>

<https://greenjobsfornature.org/get-that-green-job/apprenticeships/>

<https://greenjobsfornature.org/get-that-green-job/at-school-and-college/>

<https://greenjobsfornature.org/get-that-green-job/apprenticeships/apprenticeships-in-england/>

<https://www.instituteforapprenticeships.org/apprenticeship-standards/countryside-worker-v1-0>

<https://www.instituteforapprenticeships.org/apprenticeship-standards/forest-craftsperson-v1-0>

<https://www.instituteforapprenticeships.org/apprenticeship-standards/forest-craftsperson-v1-0>

<https://www.instituteforapprenticeships.org/apprenticeship-standards/countryside-ranger-v1-1>

<https://www.instituteforapprenticeships.org/apprenticeship-standards/environmental-practitioner-degree-v1-1>

<https://www.instituteforapprenticeships.org/apprenticeship-standards/ecologist-degree-v1-0>

<https://youtu.be/i43gEriGsC0>

<https://www.gvi.co.uk/volunteer-abroad/>

<https://feweeek.co.uk/apprenticeships-in-green-skills-sectors-require-joined-up-thinking/>

<https://www.aboutsmartcities.com/green-economics-sector/>

Best universities for the green sector

Sustainability

University of Edinburgh

Nottingham Trent University

Environmental impact v social impact

University of Oxford University of Cambridge

Environmental Science

Manchester Met University

Renewable Energy Engineering

Newcastle College University Centre

University of Portsmouth

Solent University



Awakening minds

OUR CORE VIRTUES



Achieving dreams



Serving others