

Agriculture, environmental and animal care

There are likely to be opportunities in this sector over the next few years:

- agriculture has an ageing workforce, so jobs will be created when people retire
- UK ornamental plants and flowers were worth £1.4 billion in 2019, an increase of 2.7% from 2018
- the workforce involved in animal care is projected to grow by 13.4% over the period to 2027.

(Sources: www.gov.uk/government/statistics/agriculture-in-the-united-kingdom-2019 and www.gov.uk/government/statistics/latest-horticulture-statistics and www.lmiforall.org.uk/careerometer)

Agriculture (includes aquaculture, viticulture, land-based engineering and forestry)

involves growing food - including fruit, vegetables, meat and fish. The forestry industry grows and harvests trees for wood. The horticultural nursery industry grows plants for homes and gardens.

Environmental jobs (include landscaping, arboriculture, sports turf management, countryside management and floristry)

involve caring for the environment in cities and in the countryside. Jobs can be found in national parks, nature reserves, urban parks, lakes, rivers, local green spaces, sports pitches and ornamental gardens.

Animal care (includes animal management and equine care)

involves working in conservation, zoos, the pet trade, veterinary clinics and animal rescue charities. The equine industry is large in the UK, both as a sport and amateur riding. It involves a range of careers including farriers, grooms, jockeys, breeders and trainers.

(Source: <https://nlbc.uk/careers/land-based-careers>)

Useful school or college subjects

- Animal Care
- Combined Science or Biology and Chemistry
- English
- Land-based Studies
- Maths



Things to think about...

You may need to deal with bodily fluids such as blood and vomit

You may need to work shifts including evenings and weekends

Your work may be physically demanding

Your work may be emotionally demanding

You may need to wear a uniform and/or protective/safety clothing

Your work may be outdoors in all weathers - dusty and dirty

Key skills and qualities to work in this sector

- the ability to work well with others and also on your own
- to be thorough and pay attention to detail
- physical skills like co-ordination and dexterity
- excellent communication skills
- patience and the ability to remain calm in stressful situations
- sensitivity and understanding
- customer service skills

Examples of jobs and salaries at different levels

Up to level 2	Animal care worker	£13,500 - £22,000
	Farm worker	£13,000 - £25,000
	Forestry worker	£15,000 - £27,000
Level 3	Countryside officer	£18,000 - £50,000
	Veterinary nurse	£18,000 - £26,000
	Water treatment worker	£14,500 - £32,000
Level 4+	Farmer	£20,000 - £50,000
	Vet	£30,000 - £50,000

(Source: <https://nationalcareers.service.gov.uk/explore-careers>)

Useful sector websites

<https://nlbc.uk/careers/land-based-careers>
<https://nationalcareers.service.gov.uk/job-categories/animal-care>
<https://nationalcareers.service.gov.uk/job-categories/environment-and-land>



Business and professional services

According to a recent government report, the number of jobs in this sector is predicted to increase by 5.9% in the period up to 2027, with a demand for both high-skilled and low-skilled roles.

(Source: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/863886/working_futures_headline_report.pdf)

Professional services include a range of knowledge-intensive activities, providing specialised support to businesses, government and other organisations - for example:

- legal activities
- accounting, bookkeeping, audit and tax consultancy
- activities of head offices and management consultancies
- architecture, engineering and related technical consultancy
- scientific research and development, technical testing and analysis
- advertising and market research.

Business services include a range of support functions for other businesses, government and other organisations - for example:

- rental and leasing of vehicles, industrial equipment and machinery, and intellectual property
- activities relating to employment, including human resources and recruitment agencies
- office administration and other business support activities, including call centres and exhibition, fair and conference organisers.

Useful school or college subjects

- Business
- Economics
- English
- History
- Languages
- Law
- Maths and Further Maths



Key skills and qualities to work in this sector

- the ability to work well with others
- active listening skills
- analytical thinking skills
- excellent written communication skills
- a non-judgemental approach to people
- knowledge of maths
- the ability to carry out basic tasks on a computer
- problem-solving skills
- ambition and a desire to succeed
- the ability to organise your time and workload
- the ability to use your initiative



Things to think about...

You may be working in an office most of the time

You may be dealing with sensitive/confidential information

You may be working in a pressurised environment

Examples of jobs and salaries at different levels

Up to level 2	Bookkeeper	£17,000 - £26,000
	Data entry work	£12,000 - £25,000
Level 3	Finance officer	£18,500 - £40,000
	Human resources assistant	£15,000 - £22,000
Level 4+	Business analyst	£30,000 - £70,000
	Management accountant	£25,000 - £100,000
	Solicitor	£25,000 - £100,000

(Source: <https://nationalcareers.service.gov.uk/explore-careers>)

Useful sector websites

<https://nationalcareers.service.gov.uk/job-categories/business-and-finance>
<https://nationalcareers.service.gov.uk/job-categories/law-and-legal>
<https://nationalcareers.service.gov.uk/job-categories/administration>



Construction

In October to December 2018, there were 2.4 million jobs in the construction industry - 6.8% of all jobs in the UK, with over 170 different types of job to choose from. The industry is different to many other industries, as a high proportion of people working in the sector are self-employed.

(Sources: <https://researchbriefings.files.parliament.uk/documents/SN01432/SN01432.pdf> and www.goconstruct.org/construction-careers/browse-all-job-roles)

Construction involves building - everything from houses and motorways, to offices and cinemas. A wide range of jobs are involved from labourers, scaffolders and roofers to architectural technicians and land surveyors. The industry can be broken down into different types of work - housing, infrastructure (such as roads) and repairs and maintenance. As the world is changing, in terms of climate change and technological advances, the construction industry is responding by using:

Smart construction and digital design

This includes making more elements of a building away from a building site and then bringing them together on-site. It also involves using materials that are more energy efficient.

Green/low carbon and sustainable building construction

This involves creating greener buildings to reduce the overall impact of the built environment on human health and the natural environment by, for example, efficiently using energy, water, and other resources and reducing waste and pollution.



Key skills and qualities to work in this sector

- the ability to work well with your hands
- knowledge of maths
- problem-solving skills
- the ability to come up with new ways of doing things
- the ability to work well with others
- physical skills like movement, co-ordination and dexterity
- knowledge of building and construction
- to be thorough and pay attention to detail
- for some jobs in construction - the ability to use a computer and different software packages
- the ability to use your initiative

Examples of jobs and salaries at different levels



Up to level 2	Bricklayer	£17,000 - £40,000
	Painter and decorator	£15,000 - £30,000
	Roofer	£13,000 - £32,000
Level 3	Building technician	£19,000 - £35,000
	Electrician	£18,000 - £42,000
	Plumber	£15,000 - £40,000
Level 4+	Architect	£27,500 - £90,000
	Quantity surveyor	£18,000 - £80,000
	Town planner	£18,000 - £80,000

(Source: <https://nationalcareers.service.gov.uk/explore-careers>)

Useful school or college subjects

- Combined Science
- Construction and the Built Environment
- Design and Technology
- English
- Maths
- Physics

Things to think about...

You may need to have a good level of fitness

You may need to wear protective/safety clothing

Your work may be outdoors in all weathers - dusty and dirty

Your work may be physically demanding

You may be working at height and/or in a cramped environment



Useful sector websites

<https://nationalcareers.service.gov.uk/job-categories/construction-and-trades>
www.goconstruct.org



Digital, IT and media

There is an increasing overlap of the media and information technology sectors because of the use of digital technology to produce and deliver creative content. This can be seen in jobs related to web design, animation and game design.

Digital and IT includes, for example, app development, cyber security, data analysis and analytics, game development, hardware engineering, information management, IT consultancy, IT sales, software engineering, systems/network management, technical support, telecommunications and web design

Many employers say they are finding it hard to recruit people with the digital skills they need. This is particularly the case with jobs at higher levels, such as data scientists and advanced analysts and roles related to cyber security. People working in the sector are not just employed by IT companies - other sectors that employ significant numbers of IT professionals include financial services, manufacturing, public sector (local authorities, central government and the NHS) and retail. Many IT companies recruit graduates, but a degree is not always required, and apprenticeships are available.

Media includes, for example, animation, digital marketing, film, interactive media, journalism, publishing, radio, special effects, technical production, television and web design

There is a lot of competition for jobs in the media. Getting relevant work experience and developing contacts with people in the industry can be very useful, as many jobs are not advertised.

Useful school or college subjects

- Art and Design
- Combined Science
- Computer Games Design
- Computer Science
- Creative Digital Media
- Design and Technology
- English
- Information Technology
- Maths
- Media Studies

Key skills and qualities to work in this sector

- knowledge of media and broadcasting - for some jobs
- to be thorough and pay attention to detail
- excellent verbal communication skills
- the ability to work well with others
- the ability to use your initiative
- knowledge of maths
- problem-solving skills
- ambition and a desire to succeed
- the ability to write computer programs - for some jobs
- design skills and knowledge - for some jobs
- the ability to accept criticism and work well under pressure

Things to think about...

You will be working in an office most of the time

You may be self-employed

Examples of jobs and salaries at different levels

Up to level 2	IT support technician	£16,000 - £35,000
Level 3	IT service engineer	£12,000 - £30,000
Level 4+	Computer games developer	£19,500 - £59,000
	Forensic computer analyst	£20,000 - £60,000
	Social media manager	£23,000 - £75,000

(Source: <https://nationalcareers.service.gov.uk/explore-careers>)



Useful sector websites

<https://nationalcareers.service.gov.uk/job-categories/creative-and-media>
<https://nationalcareers.service.gov.uk/job-categories/computing-technology-and-digital>



Engineering and manufacturing

19% of the UK's total workforce is employed in the engineering sector. Despite this, there is currently a shortage of people with the skills needed to work in the industry. According to Engineering UK, 61% of businesses are not confident there will be enough people with the skills to fill their high-skilled job vacancies. An annual shortfall of up to 59,000 engineering graduates and technicians to fill core engineering roles is predicted.

(Source: www.engineeringuk.com/research/engineering-uk-report/at-a-glance-2019/)

Engineering involves making things, making things work and making them work better. Problem-solving is a key skill for engineers - coming up with solutions to some of the problems faced by the world.

Engineers work in almost every area that affects people - for example, creating new materials for hip replacements, making the food we eat, building roads, bridges, houses and schools and developing new ways of generating electricity.

Once something is designed, it needs to be built and often mass-produced. Manufacturing deals with the production of things using, for example, machines, tools and chemicals. Industrial manufacturing takes raw materials and makes them into an end product - on a large scale.



Key skills and qualities to work in this sector

- the ability to work well with your hands
- to be thorough and pay attention to detail
- the ability to use your initiative
- thinking and reasoning skills
- knowledge of maths
- problem-solving skills
- the ability to come up with new ways of doing things
- knowledge of building and construction
- design skills and knowledge
- the ability to use, repair and maintain machines, systems or tools

Examples of jobs and salaries at different levels



Up to level 2	Food factory worker	£12,000 - £20,000
	Packer	£14,000 - £18,000
	Welder	£18,000 - £33,000
Level 3	Engineering maintenance technician	£18,000 - £40,000
Level 4+	Civil engineer	£24,000 - £80,000
	Electrical engineer	£20,000 - £60,000
	Mechanical engineer	£22,000 - £55,000

(Source: <https://nationalcareers.service.gov.uk/explore-careers>)

Useful school or college subjects

- Applied Science
- Biology
- Chemistry
- Combined Science
- Construction and the Built Environment
- Design and Technology
- Engineering
- Maths
- Physics

Things to think about...

You may need to work shifts including evenings and weekends

You may need to wear a uniform and/or protective/safety clothing

In manufacturing, there may be some repetitive tasks involved



Useful sector websites

<https://nationalcareers.service.gov.uk/job-categories/engineering-and-maintenance>
<https://nationalcareers.service.gov.uk/job-categories/manufacturing>
www.thebigbangfair.co.uk
www.tomorrowsengineers.org.uk
<https://engineuity.org/for-career-seekers>



Health and social care

1.2 million full-time equivalent (FTE) staff work in the NHS, which has over 350 careers to choose from. 1.1 million people work in adult social care and over 46,000 work for independent health care providers. Together, they make up around 10% of the total workforce in England. There are currently shortages in roles such as nurses, many types of doctors, allied health professionals and care staff.

(Sources: www.healthcareers.nhs.uk/career-planning/resources/350-careers-one-nhs-your-future-0 and www.kingsfund.org.uk/publications/health-care-workforce-england)

Health and social care is about helping people. Healthcare involves supporting those who are having problems with their mental or physical health, while social care is about helping and supporting vulnerable people in the community.

For many careers in healthcare, such as doctor, nurse, speech therapist and paramedic, you will need to go to university. For most of these jobs, and to get on to the related degree, you need to be good at science. To be a doctor you will need top grades in your GCSEs and A levels.



Key skills and qualities to work in this sector

- sensitivity and understanding towards the needs of others
- excellent verbal communication skills
- to be thorough and able to pay attention to detail
- patience and the ability to remain calm in stressful situations
- the ability to carry out basic tasks on a computer
- active listening skills
- a desire to help people with their needs
- a non-judgemental approach to people
- the ability to understand people's reactions

Examples of jobs and salaries at different levels



Up to level 2	Care worker	£12,500 - £25,000
	Healthcare assistant	£18,005 - £24,157
	Hospital porter	£18,005 - £21,142
Level 3	Senior care worker	£15,500 - £22,000
Level 4+	Hospital doctor	£28,243 - £74,661
	Nurse	£24,907 - £37,890
	Physiotherapist	£24,907 - £44,503
	Social worker	£24,000 - £40,000

(Source: <https://nationalcareers.service.gov.uk/explore-careers>)



Useful school or college subjects

- Combined Science or Biology, Chemistry and Physics
- English
- Health and Social Care
- Maths
- Psychology

Things to think about...

You will need to pass background checks about whether you have a criminal record

You may need to deal with bodily fluids such as blood and vomit

You may need to work shifts including evenings and weekends

Your work may be emotionally and physically demanding

You may need to wear a uniform and/or protective/safety clothing

You may be working in a pressurised environment

Useful sector websites

- www.healthcareers.nhs.uk/explore-roles
- <https://nationalcareers.service.gov.uk/job-categories/healthcare>
- <https://nationalcareers.service.gov.uk/job-categories/social-care>
- www.skillsforcare.org.uk/careers-in-care/job-roles/job-roles-in-social-care.aspx



Hospitality, catering, travel and tourism

This sector has been hit hard by the coronavirus (COVID-19) crisis. Before the pandemic, 3.2 million people were employed in the hospitality industry, across every region of the UK. It is unknown if and when the industry will return to the same employment levels after the pandemic.

(Source: https://cdn.ymaws.com/www.ukhospitality.org.uk/resource/resmgr/2019/documents/general_election/menu_for_change__online_.pdf)

The hospitality and catering industry is made up of thousands of organisations including hotels, restaurants, food service management, fast food, coffee shops, pubs, bars and nightclubs. It includes a range of jobs, such as waiter, catering manager, chef, housekeeper and events manager.

Most jobs in travel and tourism are based within tour operators and travel agents. Tour operators recruit administration staff and qualified specialists in IT, finance, tour operations and buying. Tour operators also recruit holiday resort staff, usually on a seasonal basis.



Key skills and qualities to work in this sector

- customer service skills
- the ability to work well with your hands
- patience and the ability to remain calm in stressful situations
- the ability to work well with others
- active listening skills
- the ability to accept criticism and work well under pressure
- excellent verbal communication skills
- problem-solving skills
- the ability to carry out basic tasks on a computer

Useful school or college subjects

- Applied Science
- Business
- Combined Science
- Culinary Skills
- English
- Food Preparation and Nutrition
- Languages
- Maths
- Professional Cookery
- Travel and Tourism

Examples of jobs and salaries at different levels



Up to level 2	Baker	£13,750 - £40,000
	Barista	£8,000 - £20,000
	Cabin crew	£13,500 - £30,000
	Kitchen porter	£13,000 - £18,000
	Waiter	£12,000 - £27,000
Level 3	Chef	£13,000 - £50,000
	Publican	£20,000 - £50,000
	Travel agent	£14,000 - £40,000
Level 4+	Hotel manager	£20,000 - £60,000

(Source: <https://nationalcareers.service.gov.uk/explore-careers>)

Things to think about...

You may need to work shifts including evenings and weekends

You may need to have a good level of fitness

You may need to wear a uniform

You may be travelling often and spending nights away from home



Useful sector websites

<https://nationalcareers.service.gov.uk/job-categories/hospitality-and-food>
<https://nationalcareers.service.gov.uk/job-categories/travel-and-tourism>
www.hospitalityguild.co.uk



Retail

The retail industry is changing as more people choose to shop online. This is a trend that has continued to increase, following the enforced lockdown of the 2020 coronavirus (COVID-19) pandemic.

(Source: www.ons.gov.uk/businessindustryandtrade/retailindustry/bulletins/retailsales/july2020#online-retail-sales)

The retail sector includes any business or individual involved with selling products directly to consumers and includes supermarkets, internet retailers, shops, department stores, market stalls and door-to-door sales people.

The industry has changed in recent years as more people shop online and large high street stores have closed. Online sales as a proportion of all retailing increased to 31.9% in June 2020, according to the Office for National Statistics - 11.9% higher than in February 2020.

Most high street stores have an online presence. There are now also pure-click companies - online-only companies that operate solely via the internet. Brick-and-click companies sell products from physical stores as well as online.

Related sectors include the wholesale sector (which supplies retailers), the logistics sector (which connects wholesalers and producers with retailers), and the manufacturing sector (which produces the products sold by retailers).

(Source: <https://researchbriefings.files.parliament.uk/documents/SN06186/SN06186.pdf>)



Key skills and qualities to work in this sector

- customer service skills
- excellent presentation skills - for some jobs
- excellent verbal communication skills
- patience and the ability to remain calm in stressful situations
- the ability to carry out basic tasks on a computer
- knowledge of maths
- active listening skills
- the ability to accept criticism and work well under pressure
- the ability to sell products and services

Examples of jobs and salaries at different levels



Up to level 2	Checkout operator	£11,500 - £17,000
	Sales assistant	£12,500 - £25,000
	Shelf filler	£14,000 - £19,000
	Stock control assistant	£13,500 - £30,000
Level 3	Visual merchandiser	£12,000 - £55,000
Level 4+	Retail buyer	£18,000 - £70,000
	Retail manager	£20,000 - £70,000
	Sales manager	£22,000 - £70,000

(Source: <https://nationalcareers.service.gov.uk/explore-careers>)

Useful school or college subjects

- Business
- Drama
- English
- Enterprise and Entrepreneurship
- Languages
- Maths

Things to think about...

You will need background checks about whether you have a criminal record

You may need to work shifts including evenings and weekends

You may need to wear a uniform

You will need to be over 18 to sell alcohol and other restricted goods



Useful sector website

<https://nationalcareers.service.gov.uk/job-categories/retail-and-sales>



Science

Science is about innovation, discovery and research - improving people's lives, making businesses more efficient and developing our knowledge and understanding of people, nature and the world. Science can be used to develop new technologies, treat diseases and solve problems.

Jobs related to science are found in many sectors, such as engineering and manufacturing, healthcare and agriculture - from food and clothing technology to biomedical science, microbiology, pharmacology and forensic science. These jobs don't just involve working in a laboratory - you could work in an office, hospital, pharmacy, factory, university or at a crime scene.

Some examples of jobs include analytical chemist, clinical psychologist, community pharmacist, meteorologist, microbiologist, nanotechnologist, oceanographer, plant breeder/geneticist, science writer and water quality scientist.

For many science-related jobs, a degree is needed. Some higher and degree apprenticeships are offered by a few large employers. Vacancies for laboratory assistant or pharmacy technician apprentices, at level 3, are occasionally advertised.



Key skills and qualities to work in this sector

- to be thorough and pay attention to detail
- analytical thinking skills
- knowledge of English language for explaining
- excellent written communication skills
- the ability to use a computer and the main software packages
- thinking and reasoning skills
- knowledge of maths
- the ability to come up with new ways of doing things
- problem-solving skills
- the ability to organise your time and workload

Examples of jobs and salaries at different levels



Up to level 2	Animal technician	£15,000 - £40,000
	Pharmacy assistant	£18,005 - £21,142
Level 3	Laboratory technician	£15,000 - £30,000
	Pharmacy technician	£19,500 - £30,000
Level 4+	Biochemist	£26,500 - £50,000
	Environmental consultant	£22,000 - £60,000
	Pharmacologist	£25,000 - £80,000
	Research scientist	£15,000 - £60,000

(Source: <https://nationalcareers.service.gov.uk/explore-careers>)

Useful school or college subjects

- Applied Science
- Biology
- Chemistry
- Combined Science
- Computer Science
- English
- Maths
- Physics

Things to think about...

You may need to wear a uniform and/or protective/safety clothing

You may need to deal with bodily fluids such as blood and vomit

You may work shifts including evenings and weekends



Useful sector websites

<https://nationalcareers.service.gov.uk/job-categories/science-and-research>
www.futuremorph.org/my-future-finder
<https://edu.rsc.org/future-in-chemistry>
www.etrust.org.uk/young-people
www.rsb.org.uk/careers-and-cpd/careers



Transport and logistics

Transport and logistics are important to the UK economy and, as e-commerce continues to grow, then so the demand for logistics services has grown too. Developing technologies, such as self-driving and zero-emission vehicles means it is likely there will be changes to the sector in the future, but currently there is a high demand for skilled and experienced workers.

Transport can be by road, rail, sea or air, and it can be for business or pleasure. Passenger transport incorporates operations (drivers, pilots and air crew), route planning, customer service and safety. This is then split into:

- aviation (aeroplanes)
- bus and coach
- light rail, tram and metro services
- rail
- taxi and private hire
- water transport

Logistics is about getting supplies (these can be parts, products, people or animals), to where they need to be - on time. 2.5 million people work within logistics and the sector has an ageing workforce, so jobs will be created when people retire.

(Source: <https://logistics.org.uk/campaigns/the-workforce-logistics-needs>)

Logistics/supply chain can be broken down into:

- freight transportation
- maritime and port operations
- postal and courier activities
- warehousing, storage and handling



Key skills and qualities to work in this sector

- to be thorough and pay attention to detail
- patience and the ability to remain calm in stressful situations
- the ability to work well with others
- for some jobs - analytical thinking skills
- for some jobs - the ability to use a computer and the main software packages competently
- knowledge of maths
- the ability to come up with new ways of doing things
- problem-solving skills
- for some jobs - the ability to work well with your hands

Examples of jobs and salaries at different levels



Up to level 2	Forklift truck driver	£17,000 - £28,000
	LGV driver	£18,500 - £35,000
	Warehouse worker	£12,700 - £27,000
Level 3	Cabin crew	£13,500 - £30,000
	Train driver	£20,000 - £60,000
Level 4+	Road transport manager	£23,000 - £50,000
	Supply chain manager	£20,000 - £60,000

(Source: <https://nationalcareers.service.gov.uk/explore-careers>)

Useful school or college subjects

- Business
- English
- Languages
- Maths
- Travel and Tourism

Things to think about...

You may need to pass background checks

You may need to work shifts including evenings and weekends

You may need to wear a uniform and/or protective/safety clothing

You may be travelling often and spending nights away from home

Your work may be physically demanding



Useful sector websites

<https://nationalcareers.service.gov.uk/job-categories/transport>
<https://nationalcareers.service.gov.uk/job-categories/delivery-and-storage>

