

So, you're thinking of a career in... **LOW CARBON**

What is the Low Carbon sector all about?

The Low Carbon economy is a growth sector and is extremely important to the local economy employing around 37,000 people across 4,500 enterprises. The sector is growing both in terms of the number of jobs being created but also the number of businesses being created and therefore requiring knowledgeable, skilled and motivated people to work for them.

Will there be any opportunities and where are they?

The sector is not just about jobs in Science, Technology, Engineering and Mathematics (STEM) as the sector needs business leaders, entrepreneurs and innovators.

Current and future demand for people to work in the sector is being influenced by:

- The development and application of new technologies (e.g. Electric Vehicles; Hydrogen Powered homes and transport)
- New markets
- Changing employer demand with greater transferability of knowledge across job tasks
- Changing national policy on energy use - in the context of the world's approach to climate change and renewable energy (e.g. Housing Energy Efficiency)
- An ageing workforce

New Low Carbon Job role areas are emerging in areas such as Wind Turbine technicians; Offshore wind maintenance) Recycling; Solar PV Installation and Maintenance. Key businesses to follow include: Knauf Insulation; Ørsted (formerly DONG Energy); Innogy; Siemens; MHI Vestas Offshore Wind; ABB; SP Energy Networks (Electricity); Cadent (Gas); Alstom; Renewable UK; Ulemco Arcola; Stiebel Eltron.

How to get into the sector?

Important skills to have:	Useful subjects to study:
Problem solving	English and Maths
Data and analytical	Physics
Research	Chemistry
Planning and Construction	Design and Technology
Team work	Biology
STEM	ICT
	Geography

What types of jobs are available?

Energy and Plant Operator: Job holders in this group operate boilers to produce hot water or steam and attend and operate compressors, turbines, electrical substations, switchboards and auxiliary plant and machinery to fuel nuclear reactors, drive blowers and pumps, electricity generators and other equipment.

Plumbers and Heating and Ventilating Engineers: Job holders in this group assemble, install, maintain and repair plumbing fixtures, heating and ventilating systems and pipes and pipeline systems in commercial, residential and industrial premises and public buildings.

What types of jobs are available... continued

Welding Trades: Welding trades workers join metal parts by welding, brazing and soldering, and cut and remove defects from metal using a variety of equipment and techniques.

Engineering Technician: Engineering technicians perform a variety of technical support functions to assist engineers with the design, development, operation, installation and maintenance of engineering systems and constructions.

Construction Project Managers and Related Professionals: Job holders in this group manage and oversee major construction and civil engineering projects and major building contracts for quality of work, safety, timeliness and completion within budget; forecast travel patterns and develop strategies for managing the impact of traffic-related demand.

Natural and Social Science Professionals: Job holders in this group perform a variety of scientific research and related activities.

Environment Professionals: Environment professionals investigate, address, and advise on a variety of terrestrial and marine environment and resource management issues, including the development and implementation of environmental policies and remedies that address the impacts of human activities and industrial processes on the environment.

Electricians and Electrical Fitters: Electricians and electrical fitters assemble parts in the manufacture of electrical and electronic equipment, and install, maintain, and repair electrical plant, machinery, appliances and wiring.

Civil Engineers: Civil engineers undertake research and design, direct construction and manage the operation and maintenance of civil and mining engineering structures.

Waste Disposal and Environmental Services Managers: Waste disposal and environmental services managers plan, organise, direct and co-ordinate the operations and development of waste disposal and related environmental services facilities within private firms or public authorities.

Find out more...



Engineering and Green Jobs: www.tomorrowsengineers.org.uk



Energy and Utilities: Talent Source Network connects employers, individuals and partners to ensure a pipeline of talent for the sector:
www.talentsourcenetwork.co.uk



Renewable Energy: www.renewableuk.com