

Careers & Enterprise at Sharples school

Science careers



Cogito ergo sum

Electrical engineer IEEE IET Electrical Engineer Job Prospects	What do they do? Electrical engineers design, develop, test, and supervise the manufacture of electrical equipment, such as electric motors, radar and navigation systems, communications systems, or power generation equipment. Electrical engineers also design the electrical systems of automobiles and aircraft.	Electrical engineers design, develop and maintain electrical systems for buildings, transport systems and power distribution networks. They work in and across many industries, such as construction, transport, energy (including renewables), building services, and manufacturing.
Do I need to go to College? Bolton Sixth Form College Thornleigh Salesian College Turton Sixth Form College Runshaw College Can I get work experience? Plan your NHS career Siemens work experience (including virtual) here. BAE systems work experience here.	College courses: A-level Maths and Physics for those wanting to study at degree level (electrical engineering). T-level Engineering <u>course</u> . Electrical engineering <u>HND</u> (2 years full time). North west regional college apprenticeship <u>here</u> . Apprenticeships nationally here: <u>Find apprenticeships</u>	How do I get into College? A grade 5 in Maths and Science and a 5 in English is needed for A-levels. T-level course requires a minimum of 5 GCSEs at Grade 4 or above, including Maths, English and Science. HND requires 5 GCSEs at grade 4 or above and one A-level at grade C.
University degree? BEng (Hons) Electrical Engineering MEng (Hons)	Providers:UndergraduateElectricalEngineering coursesHow do I get onto the degreecourse?Complete three A-levels and gain atleast BBB (including Maths andPhysics).	How long is the course and what work experience will I gain? Most courses last 3 (BEng) or 4 years (MEng).

Degree apprenticeship?	Providers (list not exhaustive): <u>University of Bolton</u> <u>Rolls Royce</u>	How long is the course and what work experience will I gain?
Degree Apprenticeships	How do I get onto the degree course? List of national apprenticeships here. Electrical or electronic support engineer training providers <u>here</u> . Enter your postcode on the website and search for <u>live</u> vacancies. Also see <u>NHS</u> jobs for general vacancies. GE apprentice jobs <u>here</u> . Siemens apprentice roles <u>here</u> .	The degree is normally 3 years long. Your time working in industry will include study days at University to allow you to complete the theoretical components.