



Energy Engineer - research, design and build power generation plants, and work in the oil and gas industry.



<p>Entry requirements:</p> <p>You can do a degree in an engineering or a scientific subject. Some employers may expect you to have a postgraduate qualification.</p> <p>Relevant subjects include:</p> <ul style="list-style-type: none">• mining or petroleum engineering• energy engineering• Earth sciences• environmental engineering• renewable or sustainable energy <p>If you're interested in postgraduate research and want to continue your studies up to PhD level, you may be able to apply for a course like an EngD.</p> <p>Entry requirements</p> <p>You will usually need:</p> <ul style="list-style-type: none">• 3 A levels including maths and either biology, physics or chemistry• a degree in a relevant subject for postgraduate study <p>You may be able to start by doing a degree apprenticeship in power or nuclear engineering.</p> <p>Entry requirements</p> <p>You will usually need:</p> <ul style="list-style-type: none">• 4 or 5 GCSEs at grades 9 to 4 (A* to C) and college qualifications like A levels for a higher or a degree apprenticeship	<p>Skills required:</p> <p>You will need:</p> <ul style="list-style-type: none">• knowledge of engineering science and technology• maths knowledge• analytical thinking skills• to be thorough and pay attention to detail• thinking and reasoning skills• excellent verbal communication skills• the ability to use your initiative• knowledge of building and construction• to be able to use a computer and the main software packages competently
<p>What you will do:</p> <p>Your day-to-day tasks may include:</p> <ul style="list-style-type: none">• researching and designing new generating sites• deciding on the best locations for sites• planning and overseeing production programmes for sites• managing and coordinating teams of technicians or site workers• designing and selecting equipment• meeting environmental standards, like carbon reduction targets• finding the most cost efficient and productive processes• carrying out laboratory experiments• converting experiments into large-scale industrial processes• working with geologists, geophysicists and specialist contractors• managing projects and budgets	<p>What you will earn:</p> <ul style="list-style-type: none">• Starter: £20,000• Experienced: £80,000 <p><i>These figures are a guide</i></p>
<p>Working hours, patterns and environment:</p> <ul style="list-style-type: none">• You could work in a laboratory, on a rig or in an office.• You will work 41 to 43 hours, including evenings and weekends away from home	<p>Career path and progression:</p> <ul style="list-style-type: none">• With experience, you could move into planning, policy development, or freelance consultancy.