

Job title: Energy Engineer



Job title: Energy Engineer	<p>Energy engineers research, design and build power generation plants, and work in the oil and gas industry.</p>
Entry requirements:	<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 You'll 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 You'll 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
Skills required:	<p>You'll 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
What you'll do:	<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
What you'll earn:	<ul style="list-style-type: none"> • Starter: £20,000 • Experienced: £80,000 <p><i>These figures are a guide.</i></p>
Working hours, patterns and environment:	<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.
Career path and progression:	<ul style="list-style-type: none"> • With experience, you could move into planning, policy development, or freelance consultancy.