**Job title: Energy Engineer**

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| **Job title: Energy Engineer** | Energy engineers research, design and build power generation plants, and work in the oil and gas industry. |
| **Entry requirements:**  | You can do a **degree** in an engineering or a scientific subject. Some employers may expect you to have a postgraduate qualification.Relevant subjects include:* mining or petroleum engineering
* energy engineering
* Earth sciences
* environmental engineering
* renewable or sustainable energy

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.Entry requirementsYou'll usually need:* 3 A levels including maths and either biology, physics or chemistry
* a degree in a relevant subject for postgraduate study

You may be able to start by doing a **degree apprenticeship** in power or nuclear engineering.**Entry requirements**You'll usually need:* 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
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| **Skills required:**  | You'll need:* 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
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| **What you'll do:**  | Your day-to-day tasks may include:* 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
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| **What you’ll earn:**  | * Starter: £20,000
* Experienced: £80,000

*These figures are a guide.* |
| **Working hours, patterns and environment:** | * 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.
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| **Career path and progression:** | * With experience, you could move into planning, policy development, or freelance consultancy.
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