 **Job title: Civil Engineer**

|  |  |
| --- | --- |
| **Job title: Civil Engineer** | Civil engineers design and manage construction projects, from bridges and buildings to transport links and sports stadiums. |
| **Entry requirements:**  | * You'll usually need an engineering degree (BEng) or a Master’s degree (MEng) in civil engineering.
* You could start as a technician and study part-time for an HND or foundation degree, leading to a degree in civil engineering.
* You could get into this job through an apprenticeship.
* The Institution of Civil Engineers has information on courses.
 |
| **Skills required:**  | You'll need:* excellent maths, science, and IT skills
* the ability to explain design ideas clearly
* the ability to analyse large amounts of data
* project management skills
 |
| **What you'll do:**  | You could work in these areas of engineering:* structural (dams, buildings, offshore platforms and pipelines)
* transportation (roads, railways, canals and airports)
* environmental (water supply networks, drainage and flood barriers)
* maritime (ports, harbours and sea defences)
* geotechnical (mining, earthworks and construction foundations)

You'll be:* planning with the client
* analysing surveys, testing and mapping data using computer modelling software
* creating blueprints using computer aided design (CAD)
* judging if projects are worth doing by looking at costs, time and labour
* checking risks and the effects on the environment
* preparing bids for tenders, and reporting to clients and government agencies
* managing and checking progress at each stage
* making sure sites follow health and safety rules
 |
| **What you’ll earn:**  | Starter: £24,000 (graduates)Experienced: £25,000 to £40,000Highly Experienced: £50,000 to £80,000 (senior chartered engineers)*These figures are a guide.* |
| **Working hours, patterns and environment:** | You'll usually work 35 to 40 hours a week, Monday to Friday. You may work evenings and weekends.You'll spend time in an office and on project sites. |
| **Career path and progression:** | With incorporated or chartered engineer status, you could move into senior project management roles. You could also specialise in a particular engineering field, work in research or become a consultant. You could work overseas with British consulting firms, and for oil and mining companies.You could also work for international development and disaster relief agencies. |

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |
|  |   |
|  |  |