 **Job title: Civil Engineer**

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| **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 £40,000  Highly 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. |

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