

## What does a Civil Engineer do?

Civil engineers design and manage construction projects, from bridges and buildings to transport links and sports stadiums.

## How do you become a Civil Engineer?

You can get into this job through:

- a university course
- an apprenticeship
- working towards this role
- applying directly

You'll usually need for University Route:

- 2 or 3 A levels, or equivalent, including maths and a science for a degree
- a degree in a relevant subject for postgraduate study

You'll usually need for Apprenticeship Route:

- 4 or 5 GCSEs at grades 9 to 4 (A\* to C) and A levels, or equivalent, for a higher or degree apprenticeship

## Day-to-Day Tasks

As a Civil Engineer you might:

- consult and plan with the client
- analyse and map data using computer modelling software
- use computer aided design (CAD) to create blueprints
- evaluate project costs, time and labour
- check risks and environmental impact
- prepare bids for tenders
- report to clients and government agencies
- monitor progress at each stage
- make sure sites follow health and safety rules

Working environment

- You could work on a construction site or in an office.
- Your working environment may be outdoors in all weathers.
- You may need to wear protective clothing.

## Average Salary

From £30,000 to £70,000 (Average £46,800)

**The UK average salary is £30, 378**

## Typical Working Week

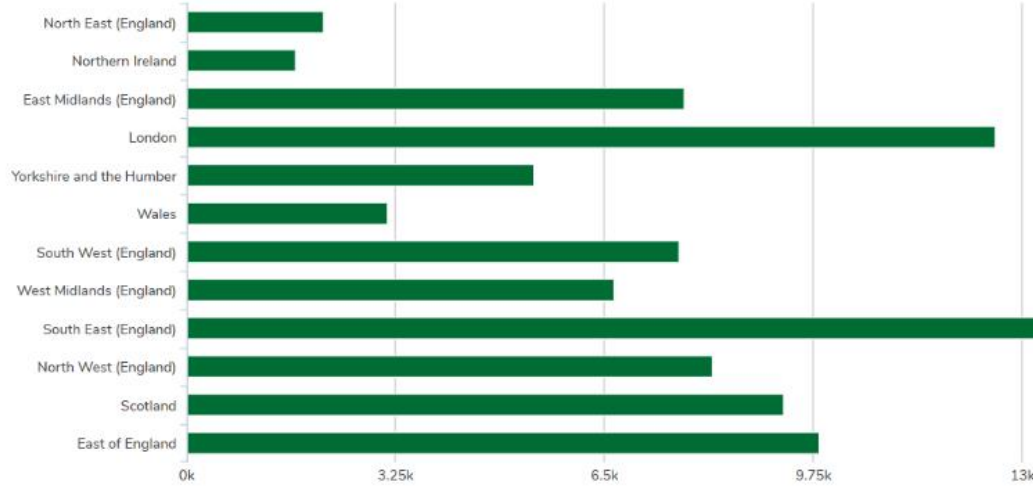
40 to 42 irregular

You could work: evenings / weekends occasionally

**There are 37.5 hours in the average working week**

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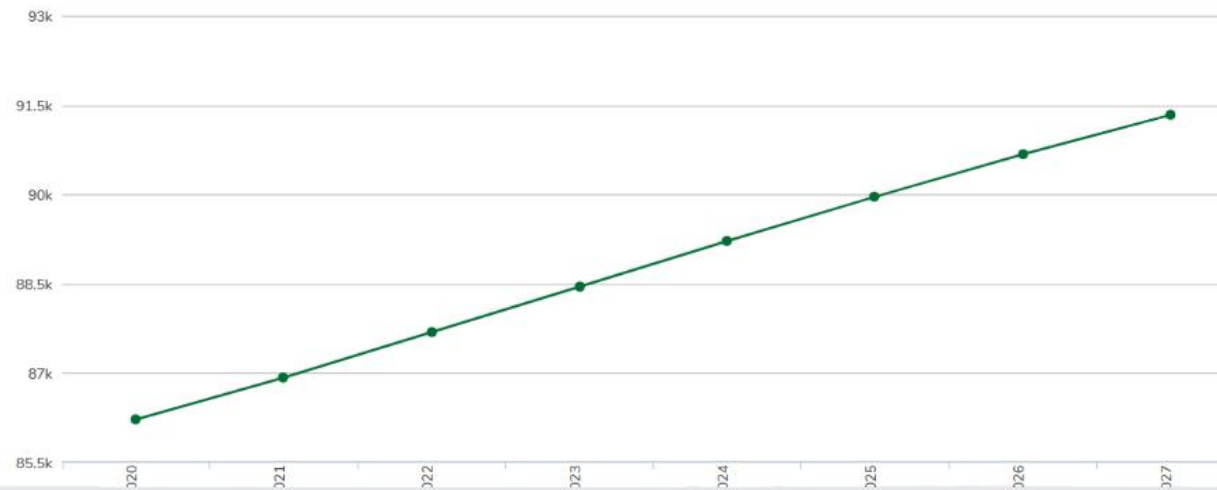
## Employment by region



**90% Male and 10% Female**  
The UK workforce is 53% Male and 47% Female

**Future Employment**  
There will be 3.3% more Civil Engineer jobs in 2027.

## Future employment



## Skills and knowledge

You'll need:

- knowledge of engineering science and technology
- maths knowledge
- knowledge of building and construction
- design skills and knowledge
- thinking and reasoning skills
- complex problem-solving skills
- to be thorough and pay attention to detail
- analytical thinking skills
- to be able to use a computer and the main software packages confidently