

CAD Technician

A CAD technician uses computer aided design (CAD) software to create design plans for a wide range of products, systems or structures, ranging from oil rigs, buildings or cars to heating systems. The designs are either 2D (surface modelling) or 3D (solid modelling) drawings.

Other titles for the job include CAD draughtsman/woman and engineering draughtsperson.

The Work

You could be:

- discussing a design with the engineering team
- interpreting technical drawings and following instructions from the design manager
- producing clear, detailed designs using CAD system software
- working from a computer model of the item
- making calculations and drawing your ideas onscreen
- making or changing detailed diagrams so that craft or production workers can follow them
- visiting sites if working on building or structure design
- writing manuals for operation and maintenance
- explaining designs to craft or production staff in the factory.

Sometimes there is overlap between this job and a **BIM Technician**.

Pay

The figures below are only a guide. Actual pay rates may vary, depending on:

- · where you work
- the size of the company or organisation you work for
- the demand for the job.

Starting salaries are usually around £21,000 a year. Trained with experience CAD technicians can earn up to £45,000 a year. Some employers have bonus schemes for senior staff.

Conditions

- You would spend most of your time sitting at a CAD workstation or computer.
- You would work basic office hours but you may have to work overtime to meet deadlines.
- You may visit the factory area, where it could be noisy and dusty or visit outdoor sites.

Getting In

There are several ways to enter.





- You could start by completing the Foundation Apprenticeship Civil Engineering (SCQF Level 6), which you
 can start in S5 and study at school and college. Entry requirements vary between colleges, but you usually
 need 3 subjects at National 5 including English and Maths. Some colleges also ask for Physics.
- You might get in through a Modern Apprenticeship for example in mechanical engineering, civil
 engineering or building services engineering. For entry you normally need 4 subjects at National
 5 including English, Maths and preferably Physics or a technological subject.
- You could take an HNC (SCQF Level 7) or HND (SCQF Level 8) course in computer aided design or a
 relevant subject such as engineering systems. Entry requirements are usually 1-2 Highers including Maths
 and a science subject. A Foundation Apprenticeship can also count towards entry requirements. If you are
 interested in a particular branch of work, check with the colleges which CAD packages they cover on their
 courses.
- Many employers specify an HNC or HND for entry.

There are jobs in many branches of industry: light and heavy engineering, construction, shipbuilding, broadcasting, telecommunications, local government, the civil service, aerospace, water and electricity supply.

What Does It Take

You need to have:

- an interest in technical drawing and computing
- good numeracy and IT skills
- patience and accuracy
- analytical skills
- good concentration and attention to detail
- good communication and team working skills
- a good technical knowledge of engineering and construction.

You need to be able to:

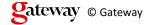
- work on more than one project at a time
- work under pressure and to deadlines
- visualise in three dimensions.

Training

- Training is generally on the job.
- If you do not have an HNC or HND, you may study for one part time, while you are working.
- Depending on the industry you work in, you may be able to take courses in specialised software, such as computer aided manufacturing (CAM) or computer aided engineering (CAE) systems.

Getting On

- You could move on to be a supervisor or team leader.
- Eventually you might be responsible for the overall design of a product.
- You could work abroad, or on a freelance basis.





- You could take further qualifications to become an engineering technician (EngTech) professional registered with the Engineering Council, for which you need an SVQ at SCQF Level 6.
- To register as an Incorporated Engineer (IEng), you need to have either a recognised Bachelor's degree or a recognised HNC or HND plus further study to Bachelor's degree level.

Contacts

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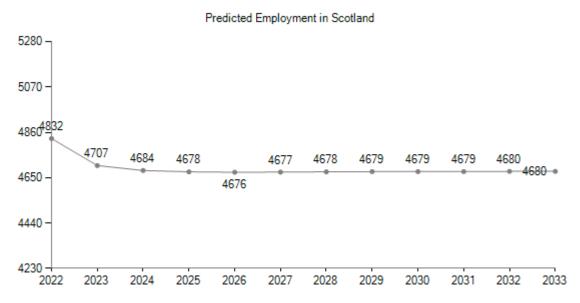


Statistics

Employment Status: Not available this career.

Past Unemployment - Scotland

No Claimant statistics available for Scotland.



LMI data powered by Lightcast

