



# DESIGN AND TECHNOLOGY ROUTES

## SUBJECT PATHWAYS

### CAREERS

Design and technology teaches you to turn a concept into a real working product. You can work with different materials, bringing in practices from subjects such as maths, sciences, art & design and computing. You will learn skills that are needed in many careers, including:

- Architect
- Architectural technologist
- Automotive engineer
- Building services engineer
- CAD designer / technician
- CNC machinist
- Civil engineer
- Civil engineering technician
- Clinical engineer
- Colour technologist
- Dental technician
- Design engineer
- Electrical engineer
- Engineering technician
- EngraverErgonomist
- Exhibition designer
- Furniture designer
- Furniture maker
- Games designer
- Graphic designer
- Heating / ventilation fitter
- Interior designer
- joiner
- Kitchen fitter
- Landscape designer
- Materials engineer
- Mechanical engineer
- Medical physics technician
- Model maker
- Motor vehicle body repairer
- Motor vehicle technician
- Packaging designer
- Painter and decorator
- Product designer
- Production manager
- Quality control technician
- Set designer
- Shoe repairer
- Shopfitter
- Silversmith
- Signmaker
- Software developer
- Teacher / lecturer
- Textile designer
- Textile technologist
- Upholsterer

# SKILLS

Studying Design and Technology can also help you develop wider skills such as:

- Adaptability
- Attention to detail
- Budgeting
- Business awareness
- CommunicationCreativity
- IT
- Organising
- Presentation
- Reasoning
- Problem solving
- Team work
- Time management
- Using numbers
- Using tools / technology
- Visual awareness
- Working independently

These skills are needed for jobs with a range of requirements and entry routes, such as:

- Advertising art director
- Beauty therapist
- Building surveyor
- Builders merchant
- Car valet
- Caretaker / janitor
- Chef
- Digital marketing officer
- Facilities manager
- Florist
- Gardener / nursery worker
- Hairdresser
- Heavy goods vehicle driver
- Hotel manager
- Market researcher
- Market trader
- Marketing officer
- Nursery nurse / manager
- Plasterer
- Plumber
- Purchasing manager
- Quantity surveyor
- Retail buyer
- Retail manager / assistant
- Site manager
- Technical author
- Tree surgeon

## DID YOU KNOW?

Engineers and designers are putting the final touches to driverless cars – with trials about to begin in the UK. Other inventions to look out for include beds that can prevent snoring and smart hairbrushes!

# ROUTES

Routes into these careers include apprenticeships and full time study.

There are higher education courses in product design / product design technology, industrial design and a range of engineering, design and construction subjects. Entry requirements vary so check on [www.ucas.com](http://www.ucas.com). Higher and degree apprenticeships are also being developed in areas such as engineering, construction and facilities management. These are paid jobs that involve studying for higher education qualifications while you work.

Always check entry requirements as you may need other subjects alongside design and technology, particularly maths, sciences and English. Design based courses often want to see examples of your work (a portfolio).

## FIND OUT MORE

For more job ideas, visit [nationalcareersservice.direct.gov.uk/youngpeople](http://nationalcareersservice.direct.gov.uk/youngpeople) then follow links to 'Aged 13-19' and 'Do something you're good at'.

If you're thinking about higher education, visit: [www.prospects.ac.uk](http://www.prospects.ac.uk) to see what art and design graduates have done after their degree.

### Other websites

[ccskills.org.uk](http://ccskills.org.uk)

[jamesdysonfoundation.co.uk](http://jamesdysonfoundation.co.uk)

[tomorrowsengineers.org.uk](http://tomorrowsengineers.org.uk)

[wisecampaign.org.uk](http://wisecampaign.org.uk)

[sheffieldfutures.org.uk](http://sheffieldfutures.org.uk)

[ucasprogress.com](http://ucasprogress.com)

[ucas.com](http://ucas.com)

[icould.com](http://icould.com)

[shu.ac.uk/study-here/higher-and-degree-apprenticeships](http://shu.ac.uk/study-here/higher-and-degree-apprenticeships)