

**My Learning**  
**My Future**

**Where can studying Design Technology take you?**

Highlighting the relevance of Design Technology to future careers and opportunities



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THE CAREERS &  
ENTERPRISE  
COMPANY

## Why Design Technology matters

Have you ever considered  
where studying Design  
Technology can take you?

Today, we'll be exploring some of  
the career opportunities that are  
available to you, as well as the various  
pathways you can take to get there.

What pathways  
can you take with  
this subject?

What do you  
think these roles  
involve (daily  
task, etc.)?

What careers can  
you think of that  
use Design  
Technology?

Why is Design  
Technology an  
important  
subject?

Design Technology - Why  
it's important  
- DT Association

What skills do  
you think you  
might need for  
these roles?



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# Explore a career as a...

Here are some  
example roles and  
careers linked to

Design Technology



Energy Assessor

BBC Bitesize case study

BBC Bitesize case study

STEM Learning case study



CAD Technician

BBC Bitesize case study



Architect

BBC Bitesize case study

BBC Bitesize case study



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# Explore a career as a...

Here are some  
example roles and  
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Video Games  
Designer

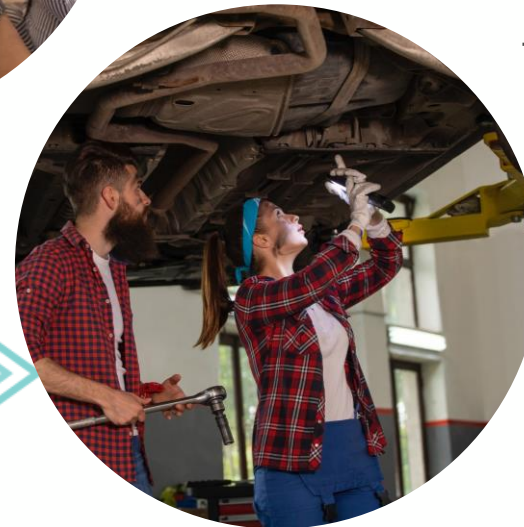
BBC Bitesize case study



Civil Engineer

BBC Bitesize case study

BBC Bitesize case study



Motor Mechanic

BBC Bitesize case study

BBC Bitesize case study





# Discover more about the role

Explore careers using National Careers Service and find out about what jobs involve and how they are right for you

## Includes:

- Average salary
- Typical hours
- Work patterns
- Pathways/How to become
- Essential Skills
- Daily tasks
- Career path and progression
- Current opportunities

## Research Ideas:

- Energy Assessor
- CAD Technician
- Architect
- Video games Designer
- Civil Engineer
- Motor Mechanic

## National Careers Service

We provide information, advice and guidance to help you make decisions on learning, training and work.

This service is available to people who live in England.

### Skills assessment

Learn more about your skills and match them to potential new careers.

[Assess your skills](#)

### Explore careers

Choose from over 800 career profiles to discover what each job involves.

[Search job profiles](#)

### Find a course

Look for online learning opportunities and training courses local to you.

[Look for courses](#)

## Careers advice

### Making career choices

Whether starting your career, changing job or if you have been affected by COVID-19, understand and make the right choice for you.

### Getting a job

Be successful in the recruitment process with tips on great CVs, interviews and graduate scheme applications.

### Progressing your career

Move up in your career by developing new skills. Find opportunities like volunteering and online learning.

### About us

The National Careers Service can help you with your career, learning and training choices. [Find out more](#) about the different ways we can support you.

### Speak to a careers adviser

Wherever you are in your decision-making, you can call us on [0800 100 900](tel:0800100900) or [use webchat](#).

### Follow us

- [Twitter](#)
- [Facebook](#)
- [LinkedIn](#)
- [YouTube](#)



# Why not teach Design Technology?

Start in the classroom, where you go from there is up to you. Bring your passion for your subject, keep learning, and pass your knowledge onto others

- No two days are the same – and neither are the pupils
- Once qualified you can teach throughout your life
- You could teach abroad
- Progress your career into leadership and management
- Bring your outside interests into the classroom and your subject

# Why is STEM important?

- It boosts essential skills such as problem solving and curiosity
- It helps you see and understand the wider world around you
- It helps young people become future entrepreneurs

Explore teaching

The right skills to teach?

[Vjendra's Story](#)

[Every Lesson  
Shapes a Life](#)

[Love to keep  
learning?](#)

[Love to nurture  
imagination?](#)

What makes a great  
teacher?



## GCSE

While there are different routes you can take to be a teacher there are a few essential things that you will need:

- A minimum GCSE Grade 4 or above in English and maths (plus science if you want to teach primary)
- A degree or equivalent qualification

### A level

A levels are 2 years of study

### T Level

T Levels are nationally recognised, technical qualifications for 16–19-year-olds. Designed by leading employers, one T Level is equivalent in size to 3 A levels

### Vocational/Technical Qualification

These include BTEC, Applied General Qualifications (AGQ) and Vocational Technical Qualifications (VTQ) – all at Level 3

### Apprenticeship

Apprenticeships are jobs which combine practical work and study. Intermediate is Level 2, Advanced is Level 3

### Degree

#### Complete a degree course

It is possible to get QTS as part of an undergraduate degree, for example:

- Bachelor of Arts (BA) with QTS
- Bachelor of Education (BEd) with QTS
- Bachelor of Science (BSc) with QTS

### Level 4/5 qualifications

Complete a L4/5 course and top up to a degree – L4/5 includes Certificate of HE, Diploma of HE, Higher Technical Qualification (HTQ), HNC, HND and Foundation degrees

Top up to a degree (Level 6) in a year of full-time study

### Higher apprenticeships

Higher level apprenticeship (foundation degree / Level 5)

### Degree apprenticeships

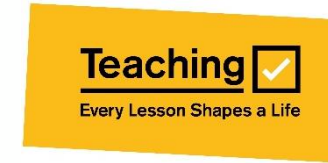
Degree apprenticeship (Level 6-7). There is a Level 6 Teaching apprenticeship programme

Initial Teacher Training (ITT) with qualified teacher status (QTS)

Teacher



# Why not teach activity?



- Pick a topic in Design Technology you think you would like to try and teach
- Agree your choice of topic with your teacher and the length of session (and with which group)  
(It may be the perfect opportunity to try this with a younger class lower down the school, or as a transition activity for Y6)
- Plan a short activity to cover the topic in a way you feel will be engaging and memorable for your peers as part of a lesson starter, main activity or plenary

## Consider:

- What are you trying to achieve (teach)? Be clear what information you intend to impart
- How will you make it fun? How will you make it 'stick'? How long will this take?
- What type of activity will you plan for? (written/practical)
- How will you know others have learned it?
- How will you make sure everyone is stretched and challenged?
- What will the end-product be?

Once you have checked it with your teacher, try the lesson with a small group (as agreed by your teacher)  
Try and get feedback during and after the session from those in the lessons and from the teacher

## After, consider:

- What you enjoyed about the experience
- Whether this is something, with training, you would enjoy
- How you felt when others learned from you





## 5 | Non-obvious jobs using Design Technology: Ever thought about..?

➤ [How to become a Soldier: Naomi's story](#)

➤ [How to become a Waste Warrior: Grace's story](#)

➤ [How to become and Electrical Engineer: Ben's story](#)

➤ [Careers ideas and information - Design Technology](#)

### Everyone Can Be Creative

➤ [Ergonomist | Explore careers | National Careers Service](#)

➤ [Footwear Designer | Explore careers | National Careers Service](#)

➤ [Technical Author | Explore careers | National Careers Service](#)



<https://www.bbc.co.uk/bitesize/articles/zhst2sg>



<https://nationalcareers.service.gov.uk/explore-careers>



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# MYPATH Job of the week (Design Technology)



Kitchen Fitter



UX Designer



Quantity Surveyor





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# Design and Technology careers in a changing world: How can I future-proof my career pathway?

The world will be changing drastically in the next few years to cope with the impacts of climate change and nature loss, and the need to lower greenhouse gas emissions and unsustainable practices. How might this steer your choice of career path using your Design and Technology skills?

**Sustainability**  
means meeting our own needs without compromising the ability of future generations to meet their own needs.  
*(UN definition)*



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# Design and Technology careers in a changing world



Sustainable Architect



Civil Engineer

**Every career can be sustainable**

1. Use your skills and passion for sustainability to help businesses adapt
2. Work for a company with sustainable values
3. Innovate for a sustainable future



Founders4Schools





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# A spotlight on Technicians using Design Technology

6 |



Discover here how the technical jobs related to Design Technology keep industries moving and the real difference technicians make in our lives.

R004  
Design  
Technician  
(CAD)

R006  
CNC  
Technician

R019  
Building  
Design  
Technician

R005  
Robotics  
Technician

R011  
Architectural  
Technician

R062  
Maintenanc  
e and  
Operations  
Engineering  
Technician



GATSBY



**Technicians**  
We make the  
difference

[Visit the Gallery here](#)

[Find further resources here](#)





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# A spotlight on Technicians using Design Technology

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R064  
Mechanical  
Fitting  
Technician

R044  
Security  
System  
Technician

R040  
Engineering  
Construction  
Pipefitter

R099  
Welding  
Technician

R022 Civil  
Engineering  
Technician

R041  
Engineering  
Manufacturing  
Technician



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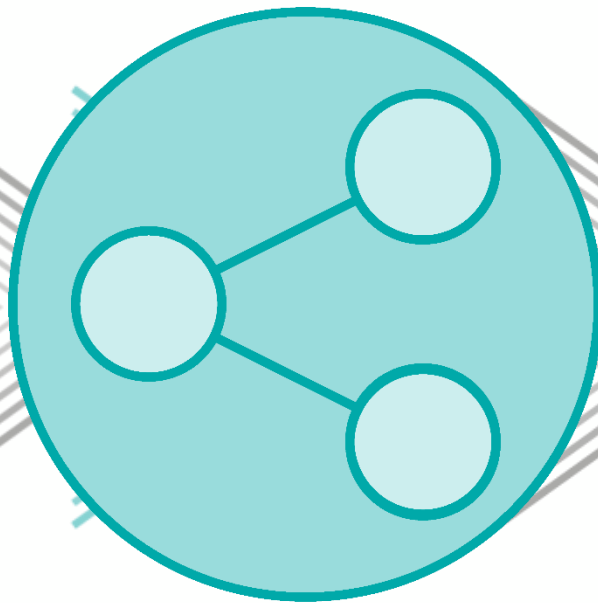


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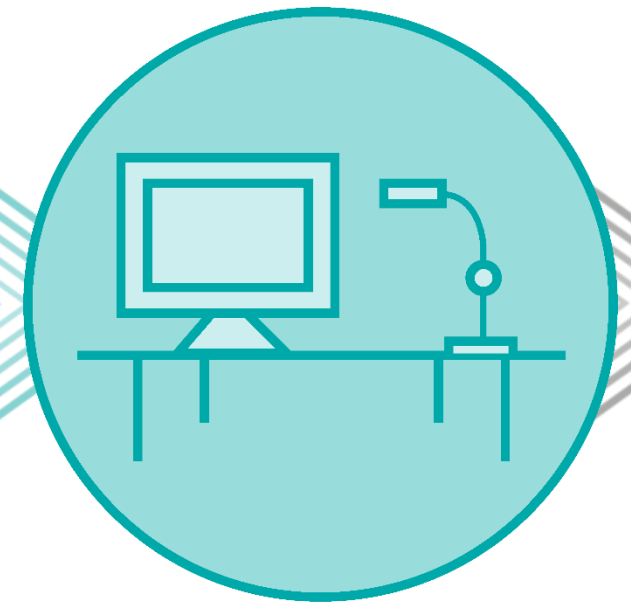
## 7 | Modern Foreign Languages Pathways



Combine Study  
and Work



Study



Work



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# 7 | Combine Study and Work

## Apprenticeships

- Network Engineer
- Software Developer
- CAD Technician
- Creative Digital Design Professional
- Materials Planner/Buyer
- Games Programmer

## T Levels

- T Levels | National Careers Service
- T Levels | Building Services for Construction
- T Levels | Design, Surveying and Planning for Construction
- T Levels | Digital Production, Design and Development
- T Levels | Onsite Construction
- T Levels | Design and Development for Engineering and Manufacturing
- T Levels | Engineering, Manufacturing, Processing and Control
- T Levels | Maintenance, Installation and repair for Engineering a Manufacturing
- T Levels | Agriculture, Land Management and Production
- T Levels | Craft and Design

## VTQs

Vocational Technical Qualifications (VTQs) | National Careers Service

- Construction
- Engineering
- Land-based
- Design and Technology



[Find more >](#)



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# 7 | Study Pathways

## HTQs (Higher Technical Qualifications)

Higher technical qualifications (HTQs) | National Careers Service

You might find courses in:

- Interior design
- Jewellery and Silversmithing
- Cloud Computing
- Engineering
- Mechanical Engineering
- Horticulture (Production and Design)
- Furniture Design and make
- Computer Games Design



## A levels

A levels | National Careers Service

You might find courses in:

- Electronics
- Computer Science
- Design and Technology
- Engineering
- Engineering: Design Engineering
- Engineering: Mechatronic Engineering
- Engineering: Video Games

## Higher education

Higher education | National Careers Service

You can explore undergraduate courses in Design Technology

You might find courses in:

- Aerospace Engineering
- Architecture, building and planning
- Civil Engineering
- Radiography and Medical Technology
- Materials Science and Engineering
- Mechanical Engineering
- Game Design
- Software Engineering



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# 7 | Work Pathways

## Supported internships with an education, health and care plan

[Supported internships](#) | [National Careers Service](#)

[Watch Saul's story](#)

**You might read about:**

- [Access to Work Funding](#) (if you have a disability or health condition)
- [Preparing for Adulthood](#)
- [Talking Futures](#) (A parents' toolkit for career conversations)

## School leaver schemes

[School leaver schemes](#) | [National Careers Service](#)

**You might read about:**

- [How to fill in an application form](#)
- [How to write a CV](#)
- [Interview help](#)
- [Progressing your career](#) (Careers Advice from NCS)







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# 7 | University League Tables

See at a glance the university ranking for Design Technology

Aeronautical and Aerospace Engineering

Building

Manufacturing and Production Engineering

## Filter by:

- Overall score
- Entry standards
- Student satisfaction
- Research quality
- Research intensity
- Graduate prospects





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# Discover Uni

Have you ever  
considered if higher  
education is right  
for you?

**1. Go to** <https://discoveruni.gov.uk/>

**2. Search for a course or subject**

(You should get a page of search results, you can filter these by university or college, whether you want to study full or part time or perhaps you want to see that courses are near you)

Once you have had a look at a few different courses and subjects now it is time to compare some side by side

**3. Check out this video which shows you how to use our comparison tool** <https://youtu.be/dBFzCQgTp8I> -  
Pick 5 courses and add these as a saved course and then you can compare

**4. Once you have your chosen five side by side, try to answer the following questions:**

- a. What kinds of qualifications do students on the course have when they start the course?
- b. How many have a placement year?
- c. How many courses let you study abroad?
- d. Which has the highest student satisfaction rating? How do you know this?
- e. What kinds of job do graduates from this course go on to?
- f. Which course has the highest salary after three years? (higher/lower than national average)
- g. Choose your favourite course and explain why you chose this course over the others?

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**4. Once you have your chosen five side by side, try to answer the following questions:**

Is the data I am looking at for a course or a subject?

- a. What year, or years, does the data relate to?
- b. How many students or graduates is this data based on?
- c. Does the data represent all the students on the course or subject area?
- d. Does the data include people like me?
- e. What factors might impact the data?



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## In 10 years time...

**Job in 10 years time (related to Design Technology):**

---

**What GCSEs helped you get this job:**

---

**What KS5 Pathways choice did you make and what did you study:**

Apprenticeship    T level    A Level    other L3 equivalent

---

**Post 18 pathways choices did you make: explain:**

Study & Work

Study

Work

---

**Essential skills used in the job:**

---

**Progression route:**

---



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## My local options...

Subject chosen (related to Design Technology):  
\_\_\_\_\_

Local college options:  
\_\_\_\_\_

Local apprenticeships options:  
\_\_\_\_\_

Other options:  
\_\_\_\_\_

The pros and cons of these options for me:

Pros:  
\_\_\_\_\_

Cons:  
\_\_\_\_\_

Consider how these will apply and explain:

Cost \_\_\_\_\_

Travel \_\_\_\_\_

Convenience \_\_\_\_\_

Aspirations \_\_\_\_\_

Personal circumstances \_\_\_\_\_

Other \_\_\_\_\_

Final choice – justify:  
\_\_\_\_\_

Next steps:  
\_\_\_\_\_





3 |



## Prepare a 3 - 5 minute talk to share with a small group on any role that interests you related to Design Technology



What's the role



Where do you need to go to carry out the role



Where has the interest come from



What's the chances of getting this role



What do you need to do to become one



Who do you look up to in this role



Where can you go to study and what level of study



What might a typical day look like



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**My career path....**





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# Essential Skills

Here are three key skills needed for a career that uses

Design Technology



	Video	Skills Builder Resource KS3	Skills Builder Resource KS4	Skills Builder Resource Post 16
<b>The use of imagination and the generation of new ideas</b>	<a href="#">Watch here</a>	<a href="#">Short Lesson Creativity Step 6-8</a>	<a href="#">Short Lesson Creativity Step 8-10</a>	<a href="#">Short Lesson Creativity Step 10-12</a>
<b>The ability to find a solution to a situation or challenge</b>	<a href="#">Watch here</a>	<a href="#">Short Lesson Problem Solving Step 6-8</a>	<a href="#">Short Lesson Problem Solving Step 8-10</a>	<a href="#">Short Lesson Problem Solving Step 10-12</a>
<b>Working cooperatively with others towards achieving a shared goal</b>	<a href="#">Watch here</a>	<a href="#">Short Lesson Teamwork Step 6-8</a>	<a href="#">Short Lesson Teamwork Step 8-10</a>	<a href="#">Short Lesson Teamwork Step 10-12</a>



	<b>Creativity</b>	Tick which apply
Step 6	I use creativity in the context of work	
Step 7	I use creativity in the context of my wider life	
Step 8	I develop ideas by using mind mapping	
Step 9	I develop ideas by asking myself questions	
Step 10	I develop ideas by considering different perspectives	
Step 11	I innovate effectively when working in a group	
Step 12	I innovate effectively by seeking out varied experiences and stimuli	

**My Strength (s)**

**My area (s) of Development**



8 |



	<b>Problem Solving</b>	Tick which apply
Step 6	I explore complex problems by identifying when there are no simple technical solutions	
Step 7	I explore complex problems by building my understanding through research	
Step 8	I explore complex problems by analysing the causes and effects	
Step 9	I create solutions for complex problems by generating a range of options	
Step 10	I create solutions for complex problems by evaluating the positive and negative effects of a range of options	
Step 11	I analyse complex problems by logical reasoning	
Step 12	I analyse complex problems by creating and testing hypotheses	

**My Strength (s)**

**My area (s) of Development**





8 |



	<b>Teamwork</b>	Tick which apply
Step 6	I contribute to group decision making	
Step 7	I contribute to group decision making, whilst recognising the value of others' ideas	
Step 8	I contribute to group decision making, encouraging others to contribute	
Step 9	I improve the team by not creating unhelpful conflicts	
Step 10	I improve the team by resolving unhelpful conflicts	
Step 11	I improve the team by building relationships beyond my immediate team	
Step 12	I influence the team by reflecting on progress and suggesting improvements	

**My Strength (s)**

**My area (s) of Development**



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