

Technical Design Manager



MATERIALS

CUT
CNC

I develop innovative sustainable packaging solutions with my team. This involves taking a design brief from the customer and building their requirements in to a solution that works. I follow the development process all the way from design though to first production. I support the customer with any technical requirements after the product has launched to market.

job details

- Creativity..... 78
- Communication..... 70
- Collaboration..... 70
- Digital knowledge..... 69
- Hands-on practical skills... 67
- Reading and writing..... 75
- Sustainability knowledge.. 55
- Using numbers..... 77

your family



Technical Graduate



Composite Materials



Degree Apprentice Engineer



What things can a cardboard package do for a product?

MATERIALS

Technical Graduate



job details

I'm essentially a materials geek - I test, analyse and sometimes get my hands dirty! My company digs up rocks, crushes them and then glues them together with bitumen (to make asphalt); or with cement (to make concrete). I use testing equipment such as weighing scales and a dynamic-shear-rheometer which measures the squishiness of bitumen. I watch rock blasting at quarries then mathematically analyse the fragments.

Creativity.....	49
Communication.....	60
Collaboration.....	72
Digital knowledge.....	46
Hands-on practical skills...	89
Reading and writing.....	67
Sustainability knowledge..	68
Using numbers.....	89

your family



Technical Design
Manager



Composite
Materials



Degree Appren-
tice Engineer



Where is asphalt and bitumen mostly used?

Composite Materials



job details

I design and manufacture things made from composite materials - carbon fibre and plastic resin, mostly. Increasingly, parts for cars, planes, wind turbines and other everyday machines are being made from composites because they are light and strong. I choose the materials we use and decide which machines we should use to make it. There are many tasks involved, so I work with others who all have special skills that help get the job done.

Creativity.....	68
Communication.....	80
Collaboration.....	64
Digital knowledge.....	36
Hands-on practical skills... 66	
Reading and writing.....	73
Sustainability knowledge.. 72	
Using numbers.....	81

your family



Technical Design
Manager



Technical
Graduate

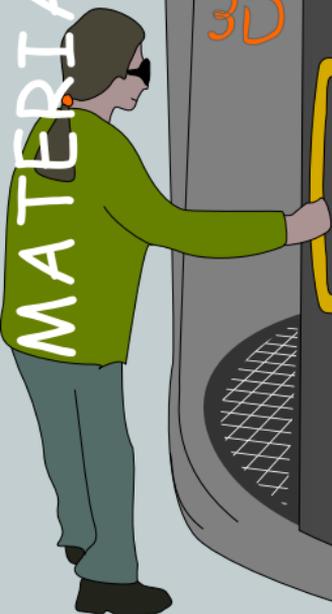


Degree Apprentice
Engineer



How can strong things be made lighter?

MATERIALS Degree-Apprentice Engineer



3D



job details

I move about different departments because I'm learning about the whole business including Design, Technology and Additive Manufacturing. I design aircraft parts. I use 3D printing and other machines to shape things. Computer software helps me reduce weight in parts whilst keeping them strong. Research and development lead to new technologies and automation of the things we do by hand.

- Creativity 83
- Communication 75
- Collaboration 72
- Digital knowledge 68
- Hands-on practical skills... 52
- Reading and writing 57
- Sustainability knowledge .. 45
- Using numbers 88

your family



Technical Design Manager



Technical Graduate



Composite Materials



What things would you like to see automated?