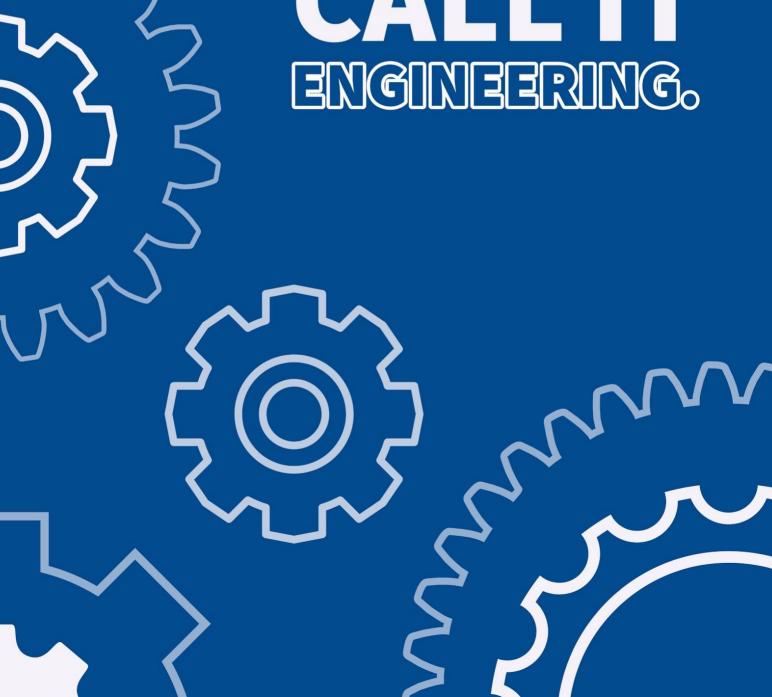
PEOPLE THINKIT'S MAGIC. WE CALLIT ENGINEERING.



Welcome to Engineering at Burnley College

What is engineering?

Engineering is behind everything – from your smartphone and hair styling products to the lights you switch on and the shoes on your feet.



The Level 3 course involves lots of research and self study, why not join Lancashire library and have access to lots of resources, best of all it is completely **free**.

Link to join Lancashire Library - Click here

Once you are a member you have access to:

British Standards - Click here

World Book Online - Click here

CREDO Reference - Click here

Publications you may find useful

ENGINEERING 2

2





Boyce A, Cooke E, Jones R and Weatherill B – Level 3 BTEC National Engineering Student Book (Pearson, 2010) ISBN 9781846907241

Tooley M and Dingle L – BTEC National Engineering (Routledge, 2010) ISBN 9780123822024

BTEC National Mathematics for Technicians by Alan Fuller, Alex Greer, G. W. Taylor

It is **not** a course requirement to purchase the above books, but you may find them useful.

To become an engineer you will require more than knowledge, you need to develop particular skills and behaviours that employers are looking for.

Below are a list of the top 10 employability skills.



Here at Burnley
College we will
provide you with
the knowledge
and help you
develop your
skills and
behaviours
ready for
employment.

But there is no time like the present to get started.

Use the
Barclays
LifeSkills
website to
develop your
skills
Click Here

See how your skills and passions could lead to an exciting job in the future. Click here to take a quiz

Tasks you can complete to prepare yourself for the course and a future in engineering:

01

To be successful on the BTEC Level 3 course you will need to produce assignments as a form of assessment. These assignments must be free from plagiarism and include references.

Complete the online test to check your knowledge of paraphrasing and referencing.

WriteCheck - Plagiarism Quiz Links to further reading:

Paraphrasing
Citing and quoting

02

Many students are unaware of the different engineering sectors and potential jobs. The more information you gather now will help you focus on your path to success.

Research the different engineering sectors:

Aerospace

Biomedical

Civil

Environmental

Chemical and Biological

Mechanical

Agricultural

Electrical

Software

03

You are considering engineering as an option after school, so you must be prepared to deal with maths and science. Maths is embedded into a number of the units so now would be a good time to brush up on your maths prior to starting in September.

Follow the links to test your knowledge on the following:

<u>Transposition of formulae</u> <u>Algebra</u>

Course information

Possible units you will study

- Health and Safety in the Engineering Workplace
- Communications for Engineering Technicians
- Mathematics for Engineering Technicians
- Mechanical Principles of Engineering Systems
- Computer-aided Drafting in Engineering
- Fabrication Processes and Technology
- Electrical and Electronic Principles in Engineering

Free study offer lots of resources you can access. To have a look at some of the content you will be covering - Click here

Burnley College is 1 of 2 AutoDesk lighthouse centres here in the UK.

AutoDesk offer a free 30 day subscriptions, why not take advantage of this offer an get hand on experience prior to starting your engineering course.

Fusion 360 helps students and educators prepare for the future of design. It's the first 3D CAD, CAM, and CAE tool of its kind, connecting your entire product development process into one cloud-based platform. Download the software today, then turn your ideas into reality.

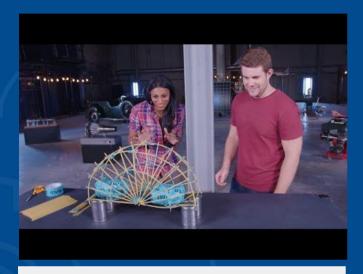




AutoDesk free trial - click here

Fusion for beginners - click here

As a young budding engineer here are some fun challenges to have a go at during lockdown:



Make the Golden Gate Bridge out of spaghetti



Keep a marble rolling for a minute

Contact information

If you have an question with regards to the full time BTEC L3 Engineering course at Burnley College, please contact engineering@burnley.ac.uk or call 01282 733373

We look forward to seeing you in September