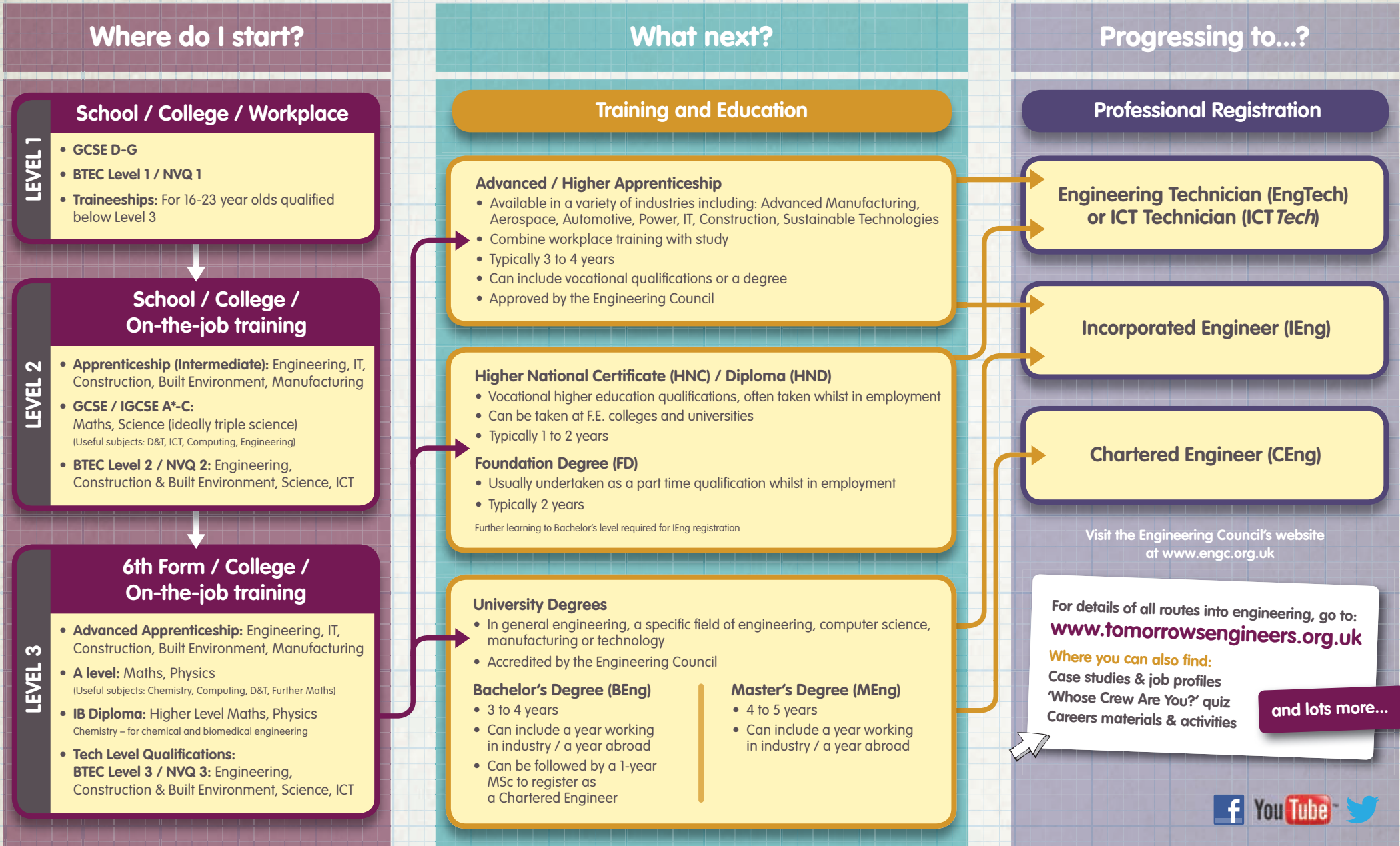
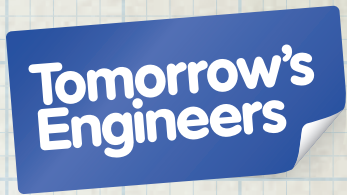


# Career Route Map

## for Engineering in England



### Where do I start?

### What next?

### Progressing to...?

#### School / College / Workplace

#### Training and Education

#### Professional Registration

LEVEL 1

- GCSE D-G
- BTEC Level 1 / NVQ 1
- **Traineeships:** For 16-23 year olds qualified below Level 3

#### Advanced / Higher Apprenticeship

- Available in a variety of industries including: Advanced Manufacturing, Aerospace, Automotive, Power, IT, Construction, Sustainable Technologies
- Combine workplace training with study
- Typically 3 to 4 years
- Can include vocational qualifications or a degree
- Approved by the Engineering Council

Engineering Technician (EngTech) or ICT Technician (ICTech)

#### School / College / On-the-job training

LEVEL 2

- **Apprenticeship (Intermediate):** Engineering, IT, Construction, Built Environment, Manufacturing
- **GCSE / IGCSE A\*-C:** Maths, Science (ideally triple science) (Useful subjects: D&T, ICT, Computing, Engineering)
- **BTEC Level 2 / NVQ 2:** Engineering, Construction & Built Environment, Science, ICT

#### Higher National Certificate (HNC) / Diploma (HND)

- Vocational higher education qualifications, often taken whilst in employment
- Can be taken at F.E. colleges and universities
- Typically 1 to 2 years

Incorporated Engineer (IEng)

#### 6th Form / College / On-the-job training

LEVEL 3

- **Advanced Apprenticeship:** Engineering, IT, Construction, Built Environment, Manufacturing
- **A level:** Maths, Physics (Useful subjects: Chemistry, Computing, D&T, Further Maths)
- **IB Diploma:** Higher Level Maths, Physics Chemistry – for chemical and biomedical engineering
- **Tech Level Qualifications:** **BTEC Level 3 / NVQ 3:** Engineering, Construction & Built Environment, Science, ICT

#### Foundation Degree (FD)

- Usually undertaken as a part time qualification whilst in employment
- Typically 2 years

Chartered Engineer (CEng)

Further learning to Bachelor's level required for IEng registration

#### University Degrees

- In general engineering, a specific field of engineering, computer science, manufacturing or technology
- Accredited by the Engineering Council

#### Bachelor's Degree (BEng)

- 3 to 4 years
- Can include a year working in industry / a year abroad
- Can be followed by a 1-year MSc to register as a Chartered Engineer

#### Master's Degree (MEng)

- 4 to 5 years
- Can include a year working in industry / a year abroad

Visit the Engineering Council's website at [www.engc.org.uk](http://www.engc.org.uk)

For details of all routes into engineering, go to: [www.tomorrowsengineers.org.uk](http://www.tomorrowsengineers.org.uk)

Where you can also find:  
Case studies & job profiles  
'Whose Crew Are You?' quiz  
Careers materials & activities

and lots more...

