Science careers

Cogito ergo sum

Mechanical engineer

Mechanical Engineer Job Profile

IMechE

What do they do?

Mechanical engineers design power-producing machines, such as electric generators, internal combustion engines, and steam and gas turbines, as well as power-using machines, such as refrigeration and air-conditioning systems. Mechanical engineers design other machines inside buildings, such as elevators and escalators.

Turn research ideas into technical plans, using computer aided design/modelling (CAD/CAM)
carry out surveys of mechanical systems and equipment research and assess new products and innovations present design plans and data to managers and clients produce other technical documents support the contract team when bidding for new work oversee maintenance programmes and quality control manage and lead a project team of technicians, designers and other engineering professionals

Do I need to go to College? 👍✅

Bolton Sixth Form
Thornleigh Salesian
Turton Sixth Form
Runshaw College

College courses:

A-level Maths and Physics for those wanting to study at degree level.
T-level Engineering course.
General engineering HND (2 years full time).
Northwest apprentice here.
Find apprenticeships

How do I get into College?

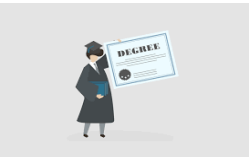
5 in Maths, Science and English for A Levels. T-levels need 5 Grade 4 or above. HND need 5 GCSEs at grade 4 or above and 1 A-level C.

Can I get work experience?

NHS careers
Siemens work experience (including virtual) here.
BAE work experience here.

University degree? 👍✅

BEng (Hons) MEng (Hons)



Providers:

Mechanical Engineering Undergrad

How do I get onto the degree course?

3 A-levels and gain at least BBB (inc Maths and Physics).

How long is the course?

Most courses last 3 (BEng) or 4 years (MEng).

Degree apprenticeship? 👍✅

Providers (list not exhaustive)

Rolls Royce
UCLan

List of national apprenticeships here.
Electrical or electronic support engineer training providers here.

How do I get onto the degree course?

Live vacancies.
Also see NHS jobs for general vacancies.
GE apprentice here.
Siemens here.

How long is the course?

Normally 3 years long. Your time working in industry will include study days at University.