

# Engineering

You could work in  
**Aeronautical, Chemical and Materials, Electrical and Electronic, Mechanical and Manufacturing, Naval Architecture and Marine, Offshore and Energy**  
(for Civil and Structural Engineering, see the Construction pathway)

## Useful subjects to study in school

### National Subjects (National 3, 4, 5 and Higher)

Applications of Maths  
Chemistry  
Design and Manufacture  
Design and Technology  
Engineering Science  
Graphic Communication  
Maths  
Physics  
Practical Craft Skills  
Practical Electronics  
Practical Metalworking  
Science

### School/College Partnership Options

SfW Building Services Engineering  
SfW Energy  
SfW Engineering Skills  
SfW Practical Experiences: Construction and Engineering  
NPA Engineering

### Foundation Apprenticeships

Engineering

## Your Personal Qualities

**You are**

Curious, Inventive, Observant, Responsible, Thorough

**You're interested in**

Designing Things, Fixing Things, Problem Solving

**Your Core Skills are**

Analytical, Communication, Creative Thinking, Decision Making, Leadership, Numeracy, Organisation, Proactivity, Teamwork

## Leaving School with Qualifications at:

National 3,  
National 4,  
National 5  
or  
College course at  
SCQF Levels  
3, 4 and 5

or

Highers or  
College course or  
Foundation  
Apprenticeship  
at SCQF Level 6

## Progression Routes (There may also be other courses available in your local area)

### Further Education - Access, NC, NQ and NPA (SCQF Levels 4, 5 and 6)

Access to STEM, Computer Aided Design, Engineering, Engineering (Aeronautical, Electrical, Electronic, Landbased, Manufacturing, Mechanical, Renewable Energy), Electrical Skills, Engineering Practice, Engineering Skills, Engineering Systems, Fabrication and Welding, Mechanical Maintenance

### Workplace Learning - Modern Apprenticeships (SCQF Levels 5 and/or 6)

Boat Building and Repair, Engineering, Gas Engineering, Industrial Applications, Landbased Engineering, Mineral Extraction and Processing, Power Distribution, Radiation Protection Monitoring, Rail Engineering, Upstream Oil and Gas Production

### Workplace Learning - Modern Apprenticeships (SCQF Levels 6 and 7)

Engineering Construction, Heating, Ventilation, Air Conditioning and Refrigeration, Process Manufacturing

### Workplace Learning - Modern Apprenticeships (SCQF Level 7 or 8)

Electrical Installation, Electronic Security Systems, Engineering: Asset Lifecycle and Maintenance, Engineering: Manufacturing and Fabrication, Engineering: Technical Support Engineering and Digital Manufacturing, Plumbing and Heating

### Higher Education at College - HNC and HND (SCQF Levels 7 and 8)

Computer Aided Draughting and Design, Electronics, Engineering (Aircraft, Automotive, Chemical and Process, Civil, Electrical, Manufacturing, Marine, Measurement and Control, Mechanical, Petroleum/Petrochemical), Engineering Practice, Engineering Systems, Fabrication, Welding and Inspection, Mechatronics, Water Operations

### Workplace Learning - Graduate Apprenticeships (SCQF Level 10)

Engineering: Design and Manufacture, Engineering: Instrumentation, Measurement and Control

### University Degree - BSc Hons, BEng Hons, MChem, MEng, MSci (SCQF Levels 9, 10 and 11)

Engineering Disciplines (combinations available): Aero-Mechanical, Aeronautical, Aircraft, Aerospace, Biomedical, Chemical, Electronic and Software Engineering, Control and Instrumentation, Electrical, Electronic, Energy and Environmental, Mechanical, Mechanical Systems, Mechatronics, Naval Architecture, Offshore, Petroleum, Product Design, Robotics, Sports Design

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