PROGRESS TO A CAREER IN

# 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 Building Services Engineering

NPA Engineering

#### **Foundation Apprenticeships**

Engineering

Leaving School with Qualifications at:

National 3, National 4, National 5

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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 Chemical Engineering, Computer Aided Design, Engineering, Engineering (Aeronautical, Electrical, Electronic, Landbased, Manufacturing, Mechanical, Renewable Energy), Electrical Install, Engineering Practice, Engineering Skills, Engineering Systems, Fabrication and Welding, Introduction to Construction and Engineering, Mechanical Maintenance, Shipping and Maritime Operations: An Introduction, SWAP (Access to Engineering, Access to STEM), Wind Turbine Technician

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

Boat Building and Repair, Gas Engineering, Industrial Applications, Landbased Engineering, Minerals Extraction and Processing, Power Distribution, 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 and Digital Manufacturing, Engineering: Asset Lifecycle and Maintenance, Engineering: Manufacturing and Fabrication, Engineering: Technical Support, 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, 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 – BA Hons, BDes Hons, BSc Hons, BEng Hons, MEng, MSci (SCQF Levels 9, 10 and 11)

Engineering Disciplines (combinations available): Aero-Mechanical, Aeronautical, Aircraft, Aerospace, Biomedical, Chemical, Design, 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

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





