



University  
Centre  
Somerset

PROSPECTUS 2022 - 23

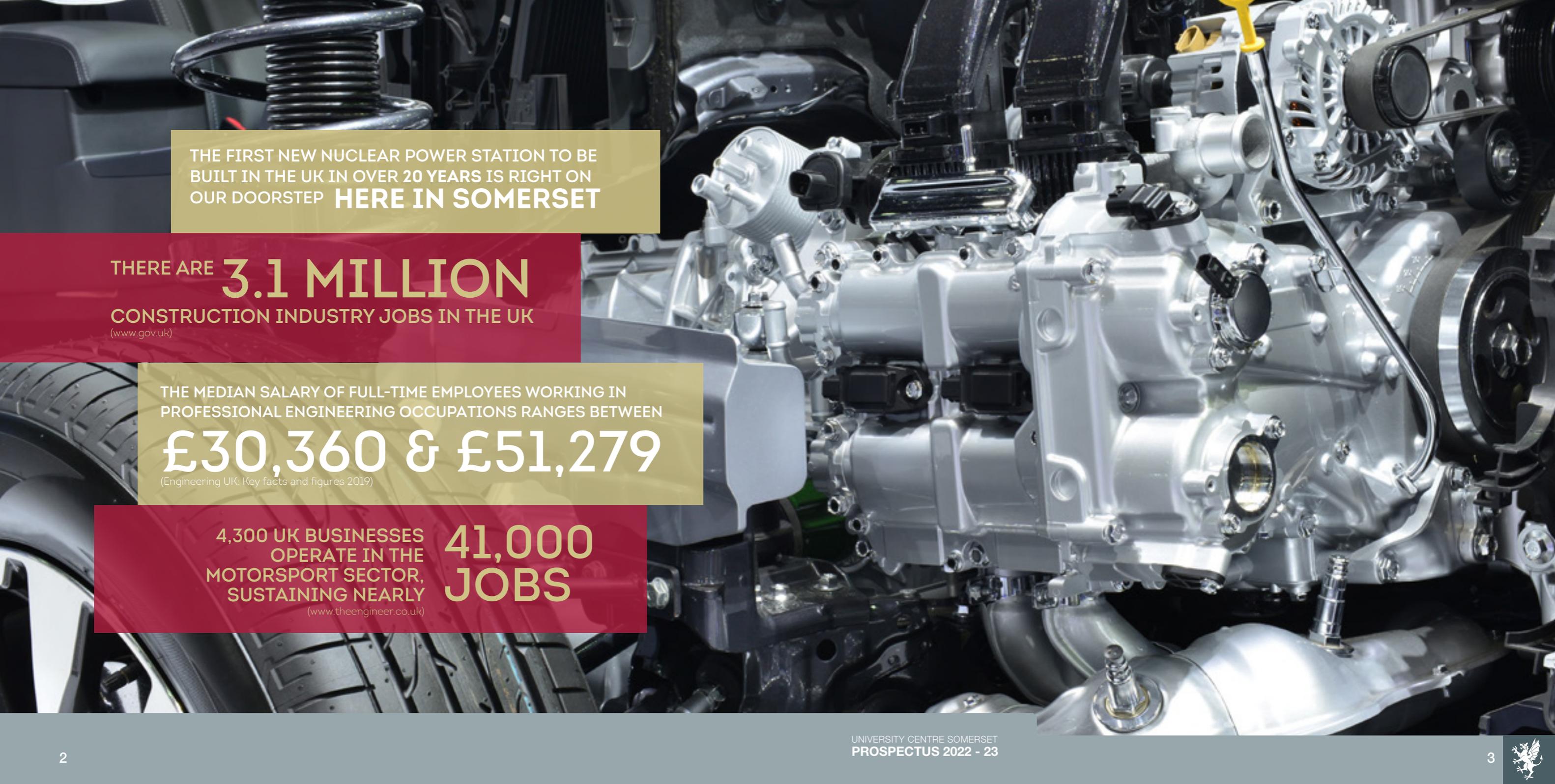
**CONSTRUCTION, ENGINEERING,  
NUCLEAR AND MOTORSPORT**



[somerset.ac.uk](http://somerset.ac.uk)



BRIDGWATER  
& TAUNTON  
COLLEGE



THE FIRST NEW NUCLEAR POWER STATION TO BE BUILT IN THE UK IN OVER 20 YEARS IS RIGHT ON OUR DOORSTEP **HERE IN SOMERSET**

THERE ARE **3.1 MILLION** CONSTRUCTION INDUSTRY JOBS IN THE UK  
(www.gov.uk)

THE MEDIAN SALARY OF FULL-TIME EMPLOYEES WORKING IN PROFESSIONAL ENGINEERING OCCUPATIONS RANGES BETWEEN

**£30,360 & £51,279**  
(Engineering UK: Key facts and figures 2019)

4,300 UK BUSINESSES OPERATE IN THE MOTORSPORT SECTOR, SUSTAINING NEARLY  
(www.theengineer.co.uk)

**41,000 JOBS**



# CONSTRUCTION, ENGINEERING, NUCLEAR & MOTORSPORT

University Centre Somerset has a thriving Engineering Department with both the Energy Skills Centre and the Advanced Engineering Centre in Bridgwater, plus the National College for Nuclear in Cannington, providing outstanding learning environments.

With professional staff and advanced modern facilities, UCS offers a comprehensive range of higher-level construction and engineering qualifications.

Our College Motorsport Race Team, four-time national champions, is made up of Higher Education students studying Motorsport and competes regularly across the country at circuits including Silverstone and Brands Hatch. Graduates have gone on to work for companies including McLaren F1 and Mercedes HPP.



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## Facilities

With professional staff and advanced modern facilities, the construction and engineering departments at University Centre Somerset offer a comprehensive range of HNCs, HNDs and degree-level programmes. All courses involve a mix of practical and theoretical learning and open up a world of possibilities in your chosen career.

We provide state-of-the-art, bespoke workshops and teaching areas for construction professions and various disciplines within engineering from manufacturing to nuclear. Significant investment in recent years across our campuses has seen these departments thrive. As our partnerships with EDF Energy, the Nuclear Decommissioning Authority and the National Skills Academy (Nuclear) demonstrate, we deliver education that is grounded in the requirements and expectations of the 21st century.



### Advanced Engineering Centre (AEC)

The £7.5 million investment in the AEC at our Bridgwater campus has created a perfect environment to support this fast-paced industry. The Centre houses a design thinking lab and composite laboratory where students and prestigious employers work with materials that are transforming engineering.

### Energy Skills Centre

Our flagship Energy Skills Centre at our Bridgwater campus provides opportunity and inspiration in equal measure. Our industry-standard laboratories and workshops are installed with an array of equipment that makes your learning experience all the richer. This includes the very latest computer-aided design facilities, robotic engineering equipment and space for fabrication, maintenance and modification.

### Motorsport

Students have the opportunity to work on our own racing car and customer cars in fully equipped workshops using the latest tooling, diagnostics and IT equipment. Our Motorsport Race Team, currently national champions, have taken 'Poppet', our Radical PR6 race car, all over the country, competing regularly at circuits including Silverstone and Brands Hatch.

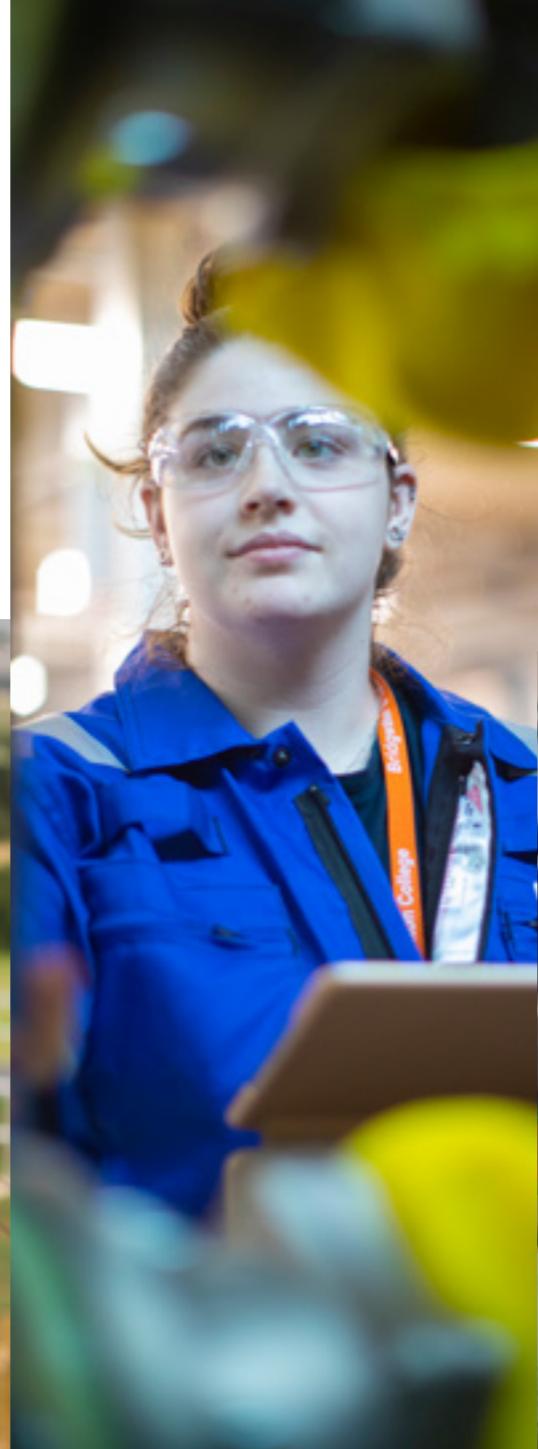


### Construction

Our Construction provision is based in our newly refurbished Construction Professions and Automotive Centre at our Taunton campus. Our lecturing team are experienced Construction & Civil Engineering specialists who are dedicated to your progression through your HNC and HND journey. We have invested significantly in our IT equipment and BIM software packages including Revit, AutoCad and Trimble Business Centre all of which you will have access to on campus and remotely. We have also upgraded our Surveying Equipment

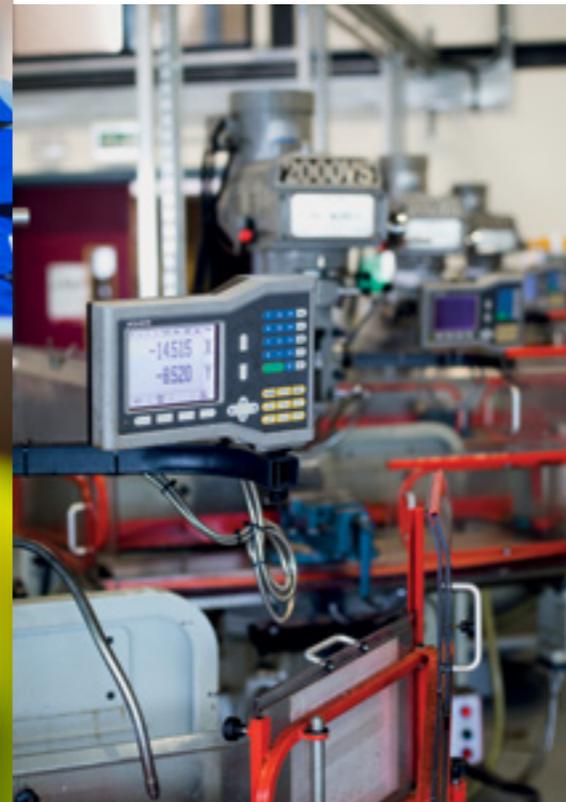
to include the latest Trimble Total Station and a complete GNSS surveying package. Throughout your course whilst studying the Surveying unit you will also experience demonstrations of the latest Drone Surveying technology.

Our new Materials Lab includes full Testing equipment to enhance your study with practical learning whilst studying units such as Hydraulic Principles, Geology, Soil Mechanics and Science & Materials.



### National College for Nuclear

Our Cannington campus is home to one of two National College for Nuclear (NCfN) hubs in England. NCfN delivers high-level technical training to thousands of learners, and is developing and delivering the UK's nuclear curriculum; designing new qualifications and training courses that meet the demand for highly skilled workers in the nuclear sector. The building boasts virtual reality environments and a bespoke nuclear engineering workshop complete with flow rig.



## Access to HE

An Access to Higher Education Diploma is designed to provide a route for learners aged 19 or over who possess few or no formal qualifications to progress to university-level study. It can lead to a wide range of career and Higher Education opportunities here at University Centre Somerset or at another university of your choice.

We currently offer six different routes, each with particular progression opportunities linked to them.

Courses include:

- Nursing & Midwifery
- Science
- Social Science
- Sport Science\*
- Physio and Sports Therapy\*
- Computing\*

In addition, the Access to HE course includes core study skills sessions to support learning and progression. These include:

- Research and Study Skills
- Digital Skills
- English
- Maths
- UCAS application support
- Tutorial.

*\*Subject to approval*



### Teaching and Assessment

The majority of modules are taught via lectures; other teaching methods include seminars, tutorials, workshops and guided learning/ independent activities. The Access to HE course utilises a blended learning approach, and some sessions will be delivered online. There is one exam unit and you will also produce a portfolio of work over the year, from which you will accumulate credits towards the Diploma.

### Where does it lead?

Successful completion of this course will provide you with a qualification that will allow you to apply to study a university-level course. In recent years, students have gone on to study a wide range of subjects including Biomedical Science, Medicine, and Nursing degrees at UWE Bristol; Nursing, Midwifery, and Occupational

Therapy degrees at the University of Plymouth; Occupational Therapy at Liverpool University; Marine Biology at Portsmouth University; Social Work at the University of Bath; or Health & Social Care degrees here at University Centre Somerset (Taunton).

**Duration:** 30 weeks

**Location:** Taunton

### Entry requirements:

Whilst there are no specific academic entry requirements, candidates will need a sound grasp of basic skills in English and maths. Given the course is an intensive and demanding one-year programme, students will require determination and resilience, and evidence of this will be asked for at interview.

You are required to be aged 19 or over and may be eligible for a loan to cover your course fees.



If you complete an Access to HE course and then go on and complete a degree or other recognised higher education course, you will not have to repay the remaining loan for the Access to HE course.



## Higher & Degree Level Apprenticeships

With the introduction of the Apprenticeship Levy in April 2017, employers are offering more Apprenticeships at various levels. Our expertise and partnerships with industry enable us to facilitate opportunities that address the increasing demand for higher-level skills in Somerset and beyond. Higher and degree level Apprenticeships are a popular choice and provide you the chance to gain applicable skills and knowledge about an industry. Please see our list of courses opposite, check our website or call for more information on the types of Apprenticeships we offer and our employer partners.

### What is an Apprenticeship?

Apprenticeships are an effective way of studying, enabling you to gain a nationally recognised qualification whilst obtaining practical on-the-job experience. In our recent Ofsted inspection our Apprenticeship provision was rated Outstanding with Ofsted inspectors

stating that 'Apprentices develop an extensive range of skills and knowledge and many extend and deepen specialist skills beyond the requirements of their qualifications.'

Higher Apprenticeships refers to Apprenticeships that may include the achievement of academic/vocational qualifications at Level 4 and 5 such as HNCs, HNDs and Foundation Degrees, while degree level Apprenticeships can provide qualifications up to Level 6 or 7, such as a full BA, BSc or BEng Honours Degree, or in some cases even a Masters Degree.

Increasingly, you may hear Apprenticeships referred to as standards. These were introduced by the government as part of ongoing Apprenticeship reforms to meet the needs of employers. Standards are occupation-focused, they are not qualification-led and the content is decided by each employer, depending on their business requirements.

### Why choose an Apprenticeship?

They are a great option for anyone looking for a fast track into a career. A Higher or Degree Level Apprenticeship brings together the best of higher and vocational training and enables higher education study plus invaluable on-the-job training without having to cover the cost of tuition. Fees for Apprenticeships are subsidised by employers and the government, and a salary is then paid to the individual undertaking the Apprenticeship programme meaning that doing a Degree Apprenticeship can leave you debt-free and provide you with many years' industry experience.

### What can I study on an Apprenticeship?

Today you can study anything from human resources to mechanical engineering, health & social care to cyber security, and much more. We have more than 20 on offer and are continually updating our portfolio to support industry demand.

### How long is an Apprenticeship?

A Higher or Degree Level Apprenticeship will likely last as long as 3 years, but could take as long as 5-6 years. As an apprentice, you would be employed full-time, although the combination of work and study can vary from one employer to another. Generally, you'll be required to work 30 hours per week, to leave you time to study, but that could take one of several forms - options include:

- **Day release**  
Studying at UCS one day per week
- **Block learning**  
Studying for 1-2 weeks at a time
- **Blended Learning**  
A mixture of online learning and traditional face-to-face

### Full-time education

For some employers apprentices will study full-time for the first year of their Apprenticeship, working with the employer during UCS holidays, and starting full-time employment after that first year.

### What should I do next?

If you feel that an Apprenticeship may be for you, get in touch with our dedicated team who can talk through your options and what to do next. Call 01278 655111 or email [apprenticehelp@btc.ac.uk](mailto:apprenticehelp@btc.ac.uk).

## Higher & Degree Level Apprenticeships

*Our Apprenticeship offer is continually developing and changing due to business demands and changes to the Apprenticeship structure. Therefore, this list should only be considered as a guide.*

### CONSTRUCTION

Construction Quantity Surveying Technician Level 4  
Construction Design and Build Technician Level 4  
Construction Site Engineering Technician Level 4  
Construction Site Supervisor Level 4

### ENGINEERING AND NUCLEAR

Engineering Manufacturing Technician Level 4  
Process Leader Level 4  
Aerospace Engineer Level 6 Degree  
Nuclear Engineer Level 6 Degree

### COMPUTING & DIGITAL TECHNOLOGIES

Cyber Security Technologist Level 4 (subject to approval)  
Network Engineer Level 4 (subject to approval)  
Software Developer Level 4 (subject to approval)  
Digital Technology Solutions Level 6 Degree (subject to approval)

**We also offer apprenticeships in a number of other sectors:**

### HEALTH AND SOCIAL CARE

### LAND-BASED

For more information, visit [www.somerset.ac.uk](http://www.somerset.ac.uk)





**“The staff and lecturers were brilliant, very informative as well as being very friendly. The family-feel that they created helped increase my confidence as well as give me friends for life. Since I finished my course I have been employed by a large architectural practice in Yeovil.”**

Tom Twidale, HNC Construction & the Built Environment

PEARSON

## Construction & the Built Environment

HNC Level 4

This course equips you with a nationally recognised qualification that enhances your workplace skills and helps prepare you to advance your career in the construction industry.

This is a professional qualification that provides the ideal foundation for further study, or helps you secure a job.

The Higher National Certificate (HNC) consists of eight units, covering key knowledge and practical skills for the sector.

The modules studied may include:

- Construction Practice and Management
- Legal and Statutory Responsibilities in Construction
- Construction Information (drawing, detailing and specification)
- Surveying, Measurement and Setting out
- Tendering and Procurement.

### Teaching and Assessment

Assessment is by a mix of assignments, project work and some exams. Each module is assessed by means of a series of internally set assignments that involve a combination of scenario-based tasks linked to project work, practical exercises, timed tasks, individual study and presentations.

### Progression Opportunities

There are a huge range of career choices within the construction professions, so the HNC really does open doors. In addition, you could go on to study at HND or degree level.



### Entry Requirements

People come to this course from a range of backgrounds, and there is no single specific entry requirement. However, applicants would be expected to have at least one of the following:

- A full Level 3 qualification in a relevant subject
- A Level 3 National Diploma in Construction

Other appropriate qualifications may be taken into consideration, or relevant work experience.

<b>Type:</b>	<b>HNC Level 4</b>
<b>Attendance:</b>	<b>Part-time</b>
<b>Location:</b>	<b>Taunton</b>
<b>Awarding body:</b>	<b>Pearson</b>





# Construction & the Built Environment (Civil Engineering)

PEARSON

HNC Level 4

Would you like to work towards a nationally recognised qualification that builds on the skills you have already developed in the workplace, to enhance your employability? If so, our Higher National Certificate in Civil Engineering is the perfect course to choose.

These professional qualifications provide the perfect foundation for a career in civil engineering. They are also a great basis from which to study a degree and blend theoretical and practical aspects of the discipline.

During your course you will cover a range of topics that may include:

- Construction Practice and Management
- Construction Information (Drawing, Detailing and Specification)
- Mathematics for Construction
- Principles of Structural Design
- Surveying, Measurement and Setting out.

### Teaching and Assessment

Assessment is by a mix of assignments, project work and some exams. Each module is assessed by means of a series of internally set assignments that involve a combination of scenario-based tasks linked to project work, practical exercises, timed tasks, individual study and presentations.

### Progression Opportunities

Completion of the HNC in Construction and the Built Environment (Civil Engineering) enables you to apply for membership of the Institute of Civil Engineers. With this behind you, the world of work presents a variety of possibilities.

Our students have gone on to pursue careers such as Civil Engineer, Project Manager, Highway Engineer, Site Manager, Utilities Engineer and Structural Engineer.

You could go on to study the HND in Construction and the Built Environment at UCS. Alternatively, graduates may apply to study the discipline at degree level.

### Entry Requirements

Typically entrants will possess at least one of the following:

- AS/A2 Levels
- Level 3 in Maths
- A National Certificate in Civil Engineering
- A National Diploma in Construction
- Relevant work experience

Other appropriate qualifications may be taken into consideration.

Type:	HNC Level 4
Attendance:	Part-time
Location:	Taunton
Awarding body:	Pearson





# Construction & the Built Environment (Civil Engineering)

HND Level 5

Would you like to work towards a nationally recognised qualification that builds on the skills you have already developed in the workplace to enhance your employability? If so, our Higher National Diploma in Civil Engineering is the perfect course to choose.

These professional qualifications provide the perfect foundation for a career in the construction industry. They are also a great basis from which to pursue degree level study in Civil Engineering, and blend theoretical and practical aspects of the discipline.

The programme is equally suited to those who may wish to progress on from the HNC in Civil Engineering to study at Level 5 or achieve a professional qualification to allow the application for chartered status in the future. The HND may be used as the Technical Certificate for a Higher Apprenticeship in Construction Site Management (Civil Engineering with Sustainability).

The modules studied may include:

- Applied Mathematics for Complex Engineering Problems
- Management Principles and Applications for Construction
- Health, Safety and Welfare for Construction and the Built Environment
- Advanced Civil Engineering
- Hydraulic Principles and Applications.

### Teaching and Assessment

Assessment is by a mix of assignments, project work and some exams. Each module is assessed by means of a series of internally set assignments that involve a combination of scenario-based tasks linked to project work, practical exercises, timed tasks, individual study and presentations.

### Progression Opportunities

Our graduates have gone on to pursue careers such as Civil Engineering, Project Management, Highway Engineering, Site Management, Utilities Engineering, Civil Engineering Surveying and Structural Engineering.

### Entry Requirements

The HNC in Construction and the Built Environment (Civil Engineering) is a prerequisite to study for the HND in Civil Engineering. However, other Level 4 qualifications may be considered as recognised prior learning for entry onto the programme.

Employment in the civil engineering/ construction industry is helpful but not a prerequisite.

All applicants will be considered on individual merit and interviewed to ensure they have the potential to achieve this qualification.

Type:	HND Level 5
Attendance:	Part-time
Location:	Taunton
Awarding body:	Pearson





# Aeronautical Engineering



## HNC Level 4

The course is designed for those looking to develop their career prospects in the aeronautical industry after successfully completing a relevant Level 3 course, or direct entry for those with practical work experience. Learners study in new, state-of-the-art engineering facilities and are supported by a team of experienced professionals.

The Level 4 Higher National Certificate in Aeronautical Engineering offers students a broad introduction to the subject area via a mandatory core of learning, while allowing for the acquisition of some sector-specific skills and experience through the specialist units.

The course has four core units:

- Engineering Design
- Engineering Maths
- Engineering Science
- Managing a Project

One specialist unit:

- Aircraft Aerodynamics

And three optional units, which may include:

- Aircraft Electrical Power and Distribution Systems
- Airframe Mechanical Systems
- Composite Materials for Aerospace Applications

Holders of a BTEC Higher National Certificate in Aeronautical Engineering meet the academic requirements for the Engineering Council Engineering Technician Standard (EngTech).

There may be opportunities for local work placements to further your practical experience and employability.

### Teaching and Assessment

Continuous assessment of learner performance is carried out by means of assignments and may include verbal presentations, projects, group-work, practical exercises, written reports and integrative assignments that link various subject areas.

This full-time course is delivered over one academic year. The part-time option is delivered over two years.

### Progression Opportunities

You could choose to progress on to an HND course or study a degree level course at a university of your choice. Alternatively, you could progress into employment.

### Entry Requirements

Typically, entrants will possess:

- Level 3 qualification in a relevant subject, e.g. BTEC Level 3 Extended Diploma or A Levels.

Mature applicants with relevant experience who do not have the stated entry requirements are encouraged to apply.

Applicants with English as their second language must demonstrate a capability of English at a standard commensurate with IELTS 5.5, with a minimum of 5.0 being awarded on individual sections.

<b>Type:</b>	<b>HNC Level 4</b>
<b>Attendance:</b>	<b>Full-time or part-time</b>
<b>Location:</b>	<b>Bridgwater</b>
<b>Awarding body:</b>	<b>Pearson</b>





**“I initially did a course in tree surgery at another college, but developed back problems so had to change direction. I saw an advertisement for an Engineering apprenticeship and thought I’d give it a go.**

**I’m now in my third year and love the blend of study and hands-on experience. My favourite sessions are welding workshops.**

**One of my proudest achievements has been making my own mini steam engine. I’ve kept it as a reminder of the good times I’ve had at UCS. It is the best place I’ve studied.”**

Sebastian Hall, HNC Electrical & Electronic Engineering

# Electrical & Electronic Engineering

HNC Level 4

This part-time, one day per week course is designed for those looking to develop a career in electrical and electronic engineering, with the emphasis on applying electrical, electronic and control principles to practical situations such as PLC and robot work cells. You will be studying in new, state-of-the-art engineering facilities, with industry-standard equipment such as robotic, PLC and process control technology.

You will be taught by staff with strong industry experience and links to key employers. In addition, fellow students will come from a broad range of employers. This course can also form the academic part of a Higher Apprenticeship.

The modules studied may include:

- Engineering Design
- Engineering Maths
- Engineering Science
- Managing a Professional Engineering Project
- Electrical and Electronic Principles
- Instrumentation and Control Systems
- Digital Principles
- Automation Robotics & PLCs.

### Teaching and Assessment

Continuous assessment of your performance will be carried out by means of assignments and may include laboratory work, investigations, projects, practical exercises and integrative assignments that link various subject areas.

### Progression Opportunities

You could choose to progress on to an HND course at University Centre Somerset or study a Degree course at a university of your choice. Alternatively, you could progress to employment. Graduates find roles within industries such as manufacturing, automotive, aerospace, energy and water.

### Entry Requirements

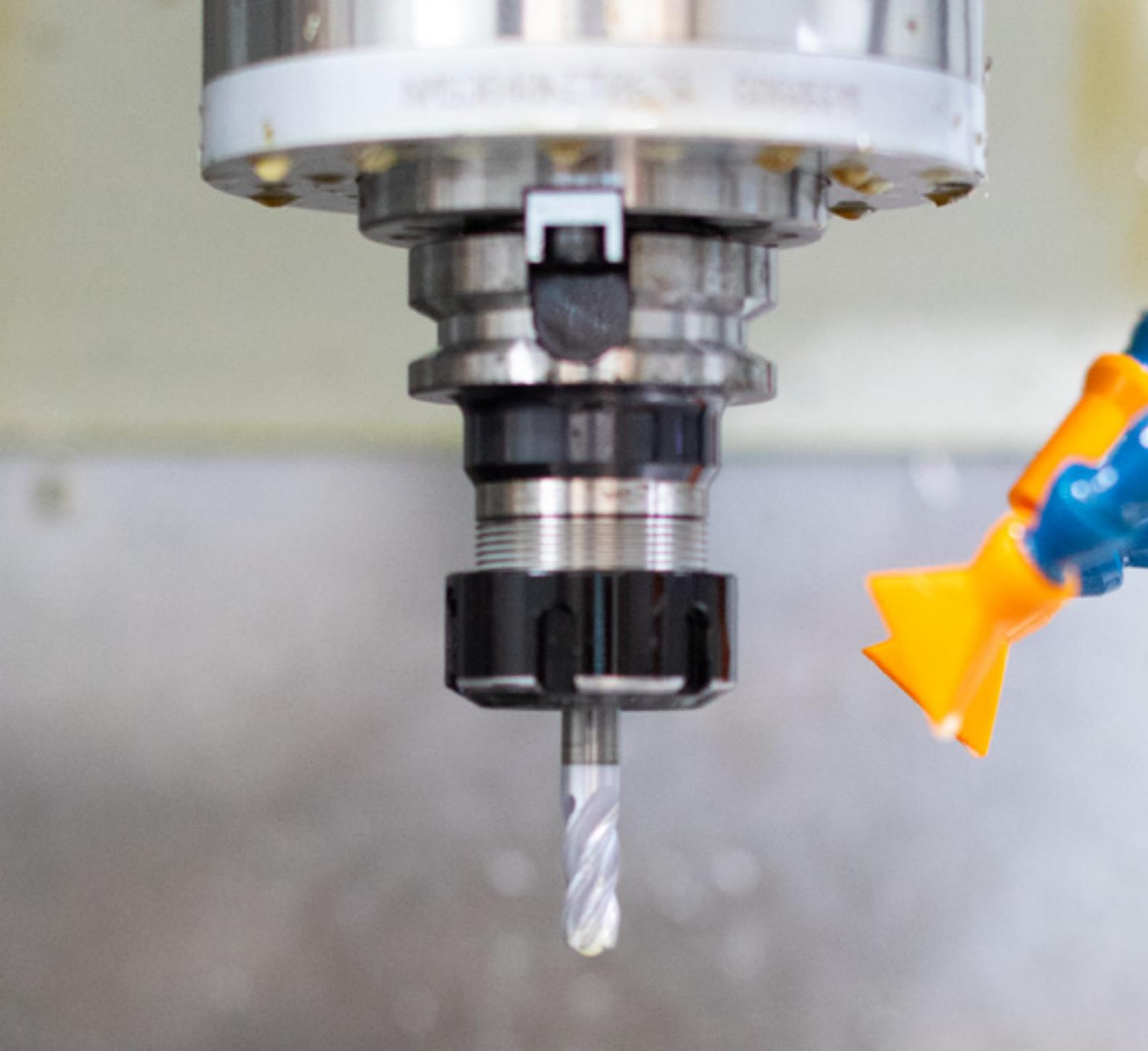
Typically entrants will possess:

- Level 3 qualification in a relevant subject

Mature applicants with relevant experience who do not have the stated entry requirements are encouraged to apply.

Type:	HNC Level 4
Attendance:	Part-time
Location:	Bridgwater
Awarding body:	Pearson





# Manufacturing Engineering

HNC Level 4

This part-time, one day per week course is designed for those looking to develop a career in manufacturing engineering, with the emphasis on applying engineering principles to practical situations such as CAD/CAM and production lines. You will study in new, state-of-the-art engineering facilities, with industry-standard equipment. The units studied offer a broad understanding of key principles in production and manufacturing.

The course is designed to provide the knowledge and understanding of how advanced and innovative engineering underpins the manufacturing industry. This course can also form the academic part of a Higher Apprenticeship.

PEARSON

## Entry Requirements

Typically entrants will possess:

- Level 3 qualification in a relevant subject

Mature applicants with relevant experience who do not have the stated entry requirements are encouraged to apply.

Type:	HNC Level 4
Attendance:	Part-time
Location:	Bridgwater
Awarding body:	Pearson

Modules may include:

- Engineering Design
- Managing a Professional Engineering Project
- Production Engineering for Manufacture
- Quality and Process Improvement
- Machining and Processing of Engineering Materials
- Computer Aided Design and Manufacture (CAD/CAM)
- Engineering Maths
- Engineering Science.

## Teaching and Assessment

Continuous assessment of your performance will be carried out by means of assignments and may include laboratory work, investigations, projects, practical exercises and integrative assignments that link various subject areas.

## Progression Opportunities

You could choose to progress on to an HND course at University Centre Somerset or study a degree course at a university of your choice. Alternatively, you could progress to employment. Graduates find roles within industries such as manufacturing, automotive, aerospace, energy and water.





# Mechanical Engineering

PEARSON

## HNC Level 4

This part-time, one day per week course is designed for those looking to develop a career in mechanical engineering, with the emphasis on applying mechanical theory to practical situations. You will study in new, state-of-the-art engineering facilities, with industry-standard equipment.

Mechanical Engineers research, develop and manage projects devising innovative solutions in design and manufacture. Generally graduates find roles within industries such as manufacturing, automotive, aerospace, energy and water. The course is designed to provide the knowledge and understanding of how advanced and innovative engineering underpins the mechanical design, advanced manufacturing and technical service areas of the industry. This course can also form the academic part of a Higher Apprenticeship.

Modules may include:

- Engineering Design
- Managing a Professional Engineering Project
- Mechanical Principles
- Fundamentals of Thermodynamics and Heat Engines
- Fluid mechanics
- Engineering Science
- Engineering Maths
- Materials, Properties and Testing.

### Teaching and Assessment

Continuous assessment of your performance will be carried out by means of assignments and may include laboratory work, investigations, projects, practical exercises and integrative assignments that link various subject areas.

### Progression Opportunities

You could choose to progress on to an HND course at University Centre Somerset or a degree course at a university of your choice. Alternatively, you could progress to employment.

Graduates find roles within industries such as manufacturing, automotive, aerospace, energy and water.

### Entry Requirements

Typically entrants will possess:

- Level 3 qualification in a relevant subject

Mature applicants with relevant experience who do not have the stated entry requirements are encouraged to apply.

Type:	HNC Level 4
Attendance:	Part-time
Location:	Bridgwater
Awarding body:	Pearson



“Having completed my Level 2 and Level 3 in Engineering at Bridgwater & Taunton College, it made sense to continue studying for an HNC at UCS.

The engineering facilities are fantastic. The Advanced Engineering Centre is a brilliant resource, giving us access to the very latest technology.

The fact I’ve come this far in my educational journey is testament to the brilliant teaching here.”

George Robertson, HNC Engineering



## General Engineering

PEARSON

### HNC Level 4

This full-time course is delivered over one academic year. Lessons are held over two full college days per week.

The course is designed for those looking to develop their career prospects after successfully completing a relevant Level 3 course, or direct entry with practical work experience. Learners study in new, state of the art engineering facilities and are supported by a team of experienced professionals.

Modules may include:

- Automation, Robotics & PLCs
- Engineering Design
- Engineering Management
- Engineering Maths
- Engineering Science
- Machining and Processing of Engineering Materials
- Project
- Quality & Process Improvement.

### Teaching and Assessment

Continuous assessment of learner performance is carried out by means of assignments and may include verbal presentations, projects, group-work, practical exercises, written reports and integrative assignments that link various subject areas.

Learners attend UCS for two full days a week and will be expected to complete written assignment work in self-study time at home.

### Progression Opportunities

Following this course you can look for work in a broad range of engineering occupations. Many graduates will join a Higher Apprenticeship or move straight into a senior role.

Many graduates from the HNC course progress to study a Level 5 HND course (one-year) at University Centre Somerset before ‘topping up’ to a full degree. Others secure senior positions within leading engineering businesses as engineers, managers and project team leaders.

### Entry Requirements

Students will progress on to this course having studied a relevant Level 3 qualification at a college or sixth form, e.g. A Level or BTEC Level 3.

Applicants who are non-native English speakers, or who have not studied the final two years of school in English, must demonstrate a capability of English at a standard commensurate with IELTS 5.5, with a minimum of 5.0 being awarded on individual sections.

Type:	HNC Level 4
Attendance:	Full-time
Location:	Bridgwater
Awarding body:	Pearson





# General Engineering

PEARSON

## HND Level 5

This top-up course is delivered using a blended approach: one day per week on campus with some additional learning via remote delivery.

The course is designed for those already working in a relevant engineering role and looking to develop their career after successfully completing their HNC course (RQF). Learners study in new, state-of-the-art engineering facilities and are supported by a team of experienced professionals. This course can also form the academic part of a Higher Apprenticeship.

The course builds on the units completed during an HNC programme to 'top-up' to a Level 5 qualification.

The course includes the following units:

- Research Project
- Professional Engineering Management
- Further Maths
- Lean Manufacturing
- Sustainability
- Computer Aided Design (CAD) for Engineering
- Virtual Engineering.

### Teaching and Assessment

Assessment will be via assignments. Continuous assessment of learner performance is carried out by means of assignments and may include verbal presentations, projects, group-work, practical exercises, written reports and integrative assignments that link various subject areas. Learners attend College for one full day a week and will be expected to complete additional study via remote learning, lectures and self-study time at home.

### Progression Opportunities

You can look for work in a broad range of engineering occupations.

Many graduates from the HND course have gone on to study at degree level or have secured higher positions within their companies as engineers, managers and project team leaders.

### Entry Requirements

This is a top-up programme following the successful completion of HNC in Engineering (RQF).

Students will progress on to this course having studied one of the current HNC Engineering programmes (RQF) within University Centre Somerset's Engineering department. HNCs awarded by other institutions will also be considered providing they meet the requirements of the RQF specification.

Applicants who are non-native English speakers, or who have not studied the final two years of school in English, must demonstrate a capability of English at a standard commensurate with IELTS 5.5, with a minimum of 5.0 being awarded on individual sections.

Type:	HND Level 5
Attendance:	Full-time or part-time
Location:	Bridgwater
Awarding body:	Pearson





# WILLIAMS

“I chose to study at UCS because of the course content and professionalism of the lecturers. We had a vast amount of contact time, which was really beneficial.

The chance to join a student-led multi-championship motorsport team was also a big draw. That helped expand my knowledge, leading to my dream job with the Williams F1 team.

The highlight of the course was the hands-on experience I gained in the workshop and trackside. We also got fantastic exposure to the industry.”

James Tate, Motorsport Engineering Foundation Degree

## Motorsport Engineering

OXFORD  
BROOKES  
UNIVERSITY

### Foundation Degree

This course aims to develop the knowledge and skills that you will need to become a highly qualified engineer. Our excellent facilities include a rolling road, CAD suite, wind tunnel, damper dynamometer, advanced chassis set-up equipment, CNC and machine shop and cylinder head flow analysis equipment amongst a whole host of software packages.

This programme is accredited by the IET and IMechE as partially meeting the academic requirements for IEng status. To get full IEng recognition you will need to study an accredited BEng (Hons) Top-up. We have carried out a large range of industry partner visits to the likes of Xtrac, Williams, Force India and other related motorsport engineering companies. We also have a series of guest lectures throughout each year. You will also be given the opportunity to participate in the College race team.

Modules may include:

- Engineering Science
- Engine Technology
- Composites and Materials Technology
- Vehicle Dynamics and Performance Engineering
- Fluid Dynamics
- Electronics and Microprocessors.

### Teaching and Assessment

You will undertake classroom lectures, coupled with practical sessions in manufacturing, composites, aerodynamics, chassis and engine technology. You will also be required to do a significant amount of self-study and research.

Assessment will include assignments, reports, portfolio, project, presentations, drawing work and practical skills assessments.

### Progression Opportunities

On successful completion of this course you have the opportunity to progress to the BEng (Hons) Top-up Degree in Motorsport Technology at University Centre Somerset or at a university of your choice.

Alternatively, graduates can apply for a variety of roles in motorsport and other engineering disciplines. Recent graduates work with companies including McLaren GT, Bentley Motors, Jaguar Land Rover, MOD, Hyundai Motorsport (WRC), McLaren F1 and Neil Brown Engines.

### Entry Requirements

Typically entrants will possess at least ONE of the following:

- A minimum of one pass at A Level
- 6-unit Vocational A Level (in Maths, Physics or a closely related subject)
- A National Certificate or Diploma or other full equivalent Level 3 qualification, in a discipline related to Engineering, including merits in the applied units.

Type:	Foundation Degree
UCAS Code:	H335
Institution code:	O66
Attendance:	Full-time
Location:	Bridgwater
Awarding body:	Oxford Brookes University

*There may be the opportunity to study our full-time courses on a part-time basis, please contact us to discuss.*



Motorsport Engineering | Foundation Degree



“During my Level 3 in Manufacturing Engineering, I completed a work placement with a motorsport company. I loved it, and was excited to discover that I could do a foundation degree in the discipline at UCS.

I toyed with an apprenticeship, but chose to enrol on this course instead. It’s flexible, which means I am able to work at a supermarket alongside my studies.

It’s hard work but definitely worth it. We’re given loads of support with assignments and there’s a diverse mix of students. I’d recommend UCS to anyone.”

Adam Bullivant, Motorsport Engineering Foundation Degree



## Motorsport Technology

BEng (Hons) Top-up

This course has been developed as preparation for a range of technical and management careers in motorsport engineering. The course aims to build upon the knowledge and skills developed from studying our Foundation Degree. This programme is accredited by the IET and by the IMechE for IEng status. You will be able to take advantage of brand new facilities, including a new race-team workshop and the Advanced Engineering Centre, as well as be a part of the race team.

Graduates of the course should be able to work effectively in industry as part of design, development or research teams with the skills necessary to turn concepts into drawings and through to the manufacturing and assembly processes.

Modules may include:

- Advanced Automotive Electronics
- Motorsport Engine Technology
- Project (double)
- Vehicle Dynamics
- Advanced CAD/CAM
- Management, Ethics and Energy and Sustainability (double).

### Teaching and Assessment

You will undertake a range of classroom lectures, coupled with lab sessions. You will also be required to do a high amount of self-study in order to further research.

Assessment will be via a variety of methods including assignments, reports, dissertation, portfolio, and presentations.

### Progression Opportunities

Upon completion you may progress to a range of Masters level courses that should result in a further year top-up, dependent upon study mode and compatibility of modules.

Alternatively graduates can apply for a variety of roles in motorsport and other engineering disciplines. Recent graduates work with companies including McLaren GT, Bentley Motors, Jaguar Land Rover, MOD, Hyundai Motorsport (WRC), McLaren F1 and Neil Brown Engines.



OXFORD  
BROOKES  
UNIVERSITY

### Entry Requirements

Typically entrants will possess:

- A minimum of a Pass grade in the Foundation Degree in Motorsport Engineering (to include Motorsport Fluid Dynamics & Maths II) coupled with relevant prior qualifications including GCSEs.

Applicants with a Higher National Diploma or similar Foundation Degree are also encouraged to apply.

Type:	Bachelors Degree
UCAS Code:	H333
Institution code:	O66
Attendance:	Full-time
Location:	Bridgwater
Awarding body:	Oxford Brookes University

*There may be the opportunity to study our full-time courses on a part-time basis, please contact us to discuss.*





**“I really enjoyed the practical work we did right at the start of our course. This set the tone for our programme: it’s not just about learning in classrooms, but getting hands-on and solving problems.**

**UCS has brand-new facilities, which are really nice to learn in. I also like the breakout areas, including the brilliant café.**

**The teachers are all really helpful. They know their stuff and are always supportive if you have any issues.”**

Amy Miller, Nuclear Engineering Degree Apprenticeship



# Nuclear Engineering

## Higher & Degree Level Apprenticeships

Higher and degree apprenticeships offer an exciting new way to enter professional careers and gain valuable work experience while achieving a degree level qualification. This gives you a clear pathway to reach your career ambition in the workplace and will result in higher earning capacity, recognition and professional status.

Nuclear Engineering remains one of the UK’s most important industries, offering a diverse range of challenging apprenticeship opportunities within the Nuclear and Energy sectors including power generation, decommissioning, nuclear new build, defence or renewable energy.

Apprenticeships delivered in the National College for Nuclear Southern Hub (NCfN) have been developed with industry partners, educational partners and government to deliver tomorrow’s nuclear workforce. The NCfN has truly dedicated state-of-the-art facilities including reactor simulator, and virtual reality training environment and will provide tomorrow’s engineers with high-tech, specialist training to support the nuclear industry.

If you are interested in one of these apprenticeship opportunities, please contact us to discuss in more detail.

### Teaching and Assessment

You are assessed on your knowledge and skills on an on-going basis and will have to demonstrate that you can meet the required standards throughout your training. There will be a mixture of coursework, projects, vivas, exams and end assessment.

### Progression Opportunities

The Higher or Degree Apprenticeship will provide you with excellent career progression opportunities. Fully qualified engineers are in high demand, both at home and abroad. degree level students could progress onto suitable Masters Programmes and further industry specific professional training programmes.



## Entry Requirements

- A minimum of 102 UCAS points
- A National Certificate/Diploma in a numerate or engineering discipline with a merit profile, to include Maths, or equivalent qualifications.
- or A Levels in relevant subjects

For mature applicants we will accept a wide range of non-standard and professional qualifications and experience, but if candidates are unsure as to whether they qualify we encourage them to contact us.

In order to undertake this course, you are required to have a relevant employer.

<b>Attendance:</b>	<b>Up to 5 years, dependent on level and employer</b>
<b>Location:</b>	<b>Cannington</b>





## Where to find us

One of the benefits of University Centre Somerset is our accessibility. So however you're travelling, you will find us easy to get to.

### Rail

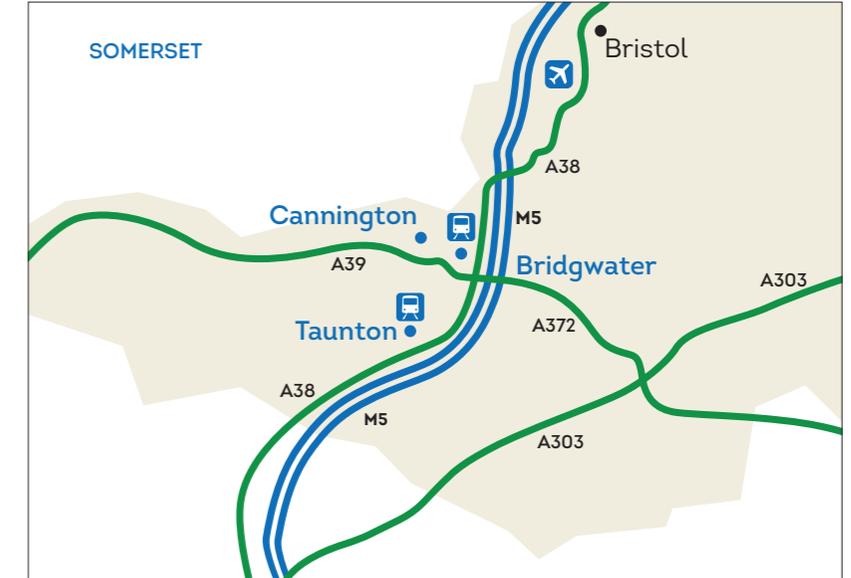
Our Taunton and Bridgwater campuses are easily accessible by train. Both towns are on the main line from Bristol to Exeter, and our campuses are within an easy walk or taxi ride of the station.

### Bus

We have bus stops on each of our campuses, served by local bus routes. A regular connection runs between the Bridgwater and Cannington campuses.

### Car

All three campuses are easily accessible from the M5 motorway. Each campus offers limited parking, including designated areas for disabled parking, mopeds and bicycles. You will be charged **£1 per day to park at our Taunton campus**, while parking is free at the Bridgwater and Cannington campuses.



### Taunton campus

Wellington Road  
Taunton  
Somerset  
TA1 5AX

01278 455464  
info@somerset.ac.uk



### Bridgwater campus

Bath Road  
Bridgwater  
Somerset  
TA6 4PZ

### Cannington campus

Rodway  
Cannington  
Somerset  
TA5 2LS





## UCS course list

### COMPUTING AND DIGITAL TECHNOLOGIES AND PROFESSIONAL STUDIES

**Computing and Digital Technologies**  
BSc (Hons)

**Computing and Digital Technologies**  
Foundation Degree

**Computing and Digital Technologies**  
BSc (Hons) Top-up

**Business Management**  
HNC/HND

**Accounting**  
AAT Level 4 Professional Diploma

**Management and Leadership**  
Level 5 Award / Certificate / Diploma

**People Management Associate Diploma**  
Level 5 Diploma

**Human Resources Management**  
Level 5 Certificate

**Education & Training**  
Level 4 Certificate

**Education & Training**  
Level 5 Diploma

**Certificate in Education**  
Level 4 Certificate

**Certificate in Education**  
Level 5 Certificate

**PGCE**  
Level 6 Diploma

**Counselling Practice**  
Level 4 Diploma

**Psychotherapeutic Counselling**  
Level 5 Diploma

**Apprenticeships Professional Accountant**  
Level 4

**Project Manager**  
Level 4

**Operations/Departmental Manager**  
Level 5

**HR Consultant/Partner**  
Level 5

**Cyber Security Technologist**  
Level 4 (subject to approval)

**Software Developer**  
Level 4 (subject to approval)

**Network Engineer**  
Level 4 (subject to approval)

**Digital Technology Solutions**  
Level 6 Degree (subject to approval)

### LAND-BASED

**Agricultural Management**  
Foundation Degree

**Agricultural Management**  
BSc (Hons) Top-up

**Animal Management and Wildlife Conservation**  
BSc (Hons)

**Animal Management and Wildlife Conservation**  
Foundation Degree

**Animal Management and Wildlife Conservation**  
BSc (Hons) Top-up

**Animal Management**  
Level 4 Professional Certificate

**Wildlife Conservation**  
Level 4 Professional Certificate

### Apprenticeships

**Agriculture**  
Level 4

*For information about all of our courses visit [www.somerset.ac.uk](http://www.somerset.ac.uk) where you can also request prospectuses for each subject area.*



## CONSTRUCTION, ENGINEERING, NUCLEAR & MOTORSPORT

Construction & the Built Environment  
HNC Level 4

Construction & the Built Environment (Civil Engineering)  
HNC Level 4

Construction & the Built Environment (Civil Engineering)  
HND Level 5

Aeronautical Engineering  
HNC Level 4

Electrical & Electronic Engineering  
HNC Level 4

Manufacturing Engineering  
HNC Level 4

Mechanical Engineering  
HNC Level 4

General Engineering  
HNC Level 4

General Engineering  
HND Level 5

Motorsport Engineering  
Foundation Degree

Motorsport Technology  
BEng (Hons) Top-up

## Apprenticeships

Nuclear Engineering  
Higher & Degree Level  
Apprenticeships

Construction Quantity Surveying Technician  
Level 4

Construction Design and Build Technician  
Level 4

Construction Site Engineering Technician  
Level 4

Construction Site Supervisor  
Level 4

Engineering Manufacturing Technician  
Level 4

Process Leader  
Level 4

Aerospace Engineer  
Level 6 Degree

Nuclear Engineer  
Level 6 Degree

## HEALTH, CHILDHOOD STUDIES, SPORT AND PUBLIC SERVICES

Early Childhood Studies  
BA (Hons)

Early Childhood Studies  
Foundation Degree

Early Childhood Studies  
BA (Hons) Top-up

Early Years Senior Practitioner  
Level 5 Diploma

Health & Social Care  
BA (Hons)

Health & Social Care  
Foundation Degree

Health & Social Care  
BA (Hons) Top-up

Adult Care  
Level 4 Diploma

Leadership & Management for Adult Care  
Level 5 Diploma

Assistant Practitioner (Health)  
Level 5 Diploma

Primary Care and Health Management  
Level 5 Certificate/Diploma

Sports Science with Sports Coaching Education  
Foundation Degree

Applied Sports Science and Coaching  
BSc (Hons) Top-up

Public Services and Criminology  
Foundation Degree

Children, Young People and Families Practitioner  
Level 4

Apprenticeships  
Lead Practitioner in Adult Care  
Level 4

Leader in Adult Care  
Level 5

Healthcare Assistant Practitioner  
Level 5

Leadership and Management for Adult Care  
Level 5

Adult Care  
Level 4

Nursing Associate  
Level 5 (subject to approval)

## CREATIVE ARTS

Art & Design  
Foundation Diploma

Creative Fashion and Textiles  
BA (Hons)

Creative Fashion and Textiles  
Foundation Degree

Creative Fashion and Textiles  
BA (Hons) Top up

Fine Art  
BA (Hons)

Fine Art  
Foundation Degree

Fine Art  
BA (Hons) Top-up

Creative Digital & Graphic Design  
BA (Hons)

Creative Digital & Graphic Design  
Foundation Degree

Creative Digital & Graphic Design  
BA (Hons) Top up

Media Make-up  
BA (Hons)

Media Make-up  
Foundation Degree

Media Make-up  
BA (Hons) Top-up

Media Production  
Foundation Degree

Music Production  
HND

Performance Arts  
Level 4

Apprenticeships  
Fashion & Textiles  
Product Technologist  
Level 4

## ACCESS TO HE

Nursing & Midwifery  
Science

Social Science

Sport Science  
(subject to approval)

Physio and Sports Therapy  
(subject to approval)

Computing  
(subject to approval)

For information about all of our courses visit [www.somerset.ac.uk](http://www.somerset.ac.uk) where you can also request prospectuses for each subject area.

