

CAREERS SERVICE

**CAREERS OCCUPATIONAL
INFORMATION UNIT**

Bulletin

CONSTRUCTION AND THE BUILT ENVIRONMENT

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An Roinn
Geilleagair



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Bulletin

Welcome

This bulletin, published by the DfE Careers Occupational Information Unit (COIU), focuses on the construction and the built environment sector in Northern Ireland.

Through a blend of infographics, short articles, and video clips, you'll gain helpful insights from people **who work, study, and teach** in our local construction sector.

You'll also learn about **construction skills in demand** and the types of **roles and various entry routes available**, and you'll pick up **useful advice** for building a successful career in construction.

The bulletin also provides information on **entry routes** into the construction sector and **useful resources** for further research.

Construction Career Opportunities and Skills in Demand

The construction sector spans a rich variety of careers, including **craft occupations and traditional skilled trades; technical and professional roles; and business support roles.**

The infographics on this page and overleaf provide an overview of the wide-ranging career opportunities on offer, as well as highlighting skills in demand across the construction industry.

Construction... has built our homes, our railways, our workplaces, our airports, our greatest cathedrals, and historic buildings.

These buildings and landmarks will be here long after they have been constructed, allowing you to make your mark on the landscape.



Craft occupations

These include, but are not limited to:

- ▶ Wood occupations – such as carpentry and joinery
- ▶ Plant occupations – such as plant operator
- ▶ Trowel occupations – such as bricklayer and plasterer
- ▶ General construction operative
- ▶ Wall & floor tiling
- ▶ Painting & decorating



Business support roles

Business support services also have an important part to play in the construction sector, including:

- ▶ IT services
- ▶ Legal services
- ▶ Accounting
- ▶ HR
- ▶ Communications



Heritage skills

There is an industry-wide drive to preserve the knowledge and wisdom that underpin the **heritage skills** that have helped shape our **historical built environment**. There will therefore be opportunities **for skilled craftspeople** to protect and conserve heritage places and spaces (e.g. traditional and historic buildings).

To learn more about the **Heritage Project** and the **growing need for skilled craftspeople with heritage skills**, you can visit the [Heritage Project page on the CITB NI website](#).



Construction Career Opportunities and Skills in Demand



Digital technology

Construction companies are keen to recruit people who are competent in the use of **emerging digital technologies** (as well as upskilling their existing employees). This will help enhance the construction industry's **productivity, efficiency, sustainability, and safety** by embedding new innovations and digital technologies in workflows.

These digital skills and technologies include, but are not limited to:

- ▶ Building Information Modelling (BIM)
- ▶ Drones
- ▶ Virtual or augmented reality
- ▶ Digital twins*
- ▶ AI in construction



Technical and professional roles

The construction industry also offers a wide range of **technical and professional roles**, such as:

- ▶ Design Technician
- ▶ Buyer
- ▶ Estimator
- ▶ Site Technician
- ▶ Quantity Surveyor
- ▶ Project Manager
- ▶ Architect
- ▶ Civil and Structural Engineer



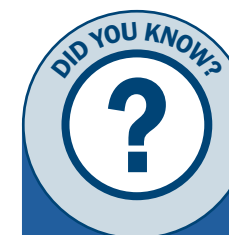
Environmental concerns

There is high demand in the construction sector for skills that have a **resilience** and **sustainability** focus which will help equip societies for the future – new ways of thinking, doing, collaborating, and innovating, including:

- ▶ **Nature-based solutions** and **nature-positive approaches** to address climate issues, and to integrate our built environment with nature
- ▶ **Natural or green infrastructure** in projects to assist in meeting targets for carbon and biodiversity
- ▶ **Smart thinking** to maximise the use of scarce resources and to avail of alternative energy sources
- ▶ Focus on **pollution control, sustainability, environmental protection, water quality**, and **ethics**

Construction companies are keen to recruit people who are competent in the use of **emerging digital technologies**.

To learn more about **construction industry roles**, check out the CITB NI [A Future in Construction Careers Guide](#).



*A digital twin is a digital/virtual model of a real-life object, process, or system.

The Construction Industry in Northern Ireland

Some Key Facts and Figures

The volume of construction work in Northern Ireland will grow by an average annual rate of 2.8%¹



An extra **5,200 workers** will be needed from 2024 to 2028.
Main construction projects in Northern Ireland include:



£300M

West Belfast GAA stadium: Casement Park Re-Development project

Source: [CITB Construction Skills Network Report 2024-2028](#)



£500M

A5 Road scheme

Source: [CITB Construction Skills Network Report 2024-2028](#)



£380M

Strule Shared Education Campus in Omagh

Source: [CITB Construction Skills Network Report 2024-2028](#)



195 METRE

Narrow Water Bridge project

Source: [Department of Infrastructure](#)

¹ Five year growth rate from end of 2023 to end of 2028

The Construction Industry in Northern Ireland

Roles in Demand



THE CONSTRUCTION INDUSTRY

needs to **increase current recruitment by 1,040 new workers each year** to deliver the expected work between the start of 2024 and the end of 2028.

Occupations with the **strongest additional recruitment requirement** levels include:

Non-construction professional and technical office-based staff

(180 PER YEAR)



Carpenters and joiners

(200 PER YEAR)



Labourers

(240 PER YEAR)



Other occupations in **high demand** include: Civil Engineers; Plant Operatives; and Electrical Installation trades.

There is **high demand** for construction specialists with digital, technology, and Net Zero skills²

350,000 new construction roles will be needed by 2028 to support the UK Government's Net Zero strategy²

Source: [CITB Construction Skills Network Report 2024-2028](#)

Heritage Construction Opportunities



250,000

retrofit Coordinators and Designers will be required to retrofit existing buildings³



NORTHERN IRELAND

has an increasing number of pre-1919 buildings requiring **restoration, conservation, repair or maintenance**⁴



IN NORTHERN IRELAND

the **most in-demand specialist heritage contractors** are electricians, joiners, painters, general craftspeople and lead workers⁴



IN NORTHERN IRELAND

there is a local **shortage** of blacksmiths, carpenters, lime plasterers, roofers (metalwork), and thatchers⁴



ONLY 10%

of contractors who work on traditional buildings have a staff member qualified or experienced in **heritage or traditional craft skills**⁵

² Source: [CITB NI Construction Industry Skills Statement](#) – August 2023

³ Source: Heritage & Carbon: Addressing the Skills Gap (2023)

⁴ Source: Skills in the Heritage Sector in Northern Ireland (2018)

⁵ Source: Skills Assessment Research Digest, P1. Skills for the heritage construction sector (2021)

Construction Roles



Please note: this infographic is intended to offer an indicative snapshot, rather than an exhaustive list, of some roles in the construction sector in Northern Ireland. It was produced in conjunction with the contributors to this bulletin.

Reasons to Consider a Career in Construction

1

There is a wide variety of careers to choose from – including professional, technical, and craft professions

Construction boasts a wide variety of careers including **skilled trades** such as Carpentry & Joinery, Bricklaying, Plastering, Stonemasonry and Roofing; **technical and professional jobs** such as Site Supervision, Project Management, Quantity Surveying and Civil Engineering; and careers involved in **day-to-day business activities** such as IT, Marketing, and Administration.

Whatever your talent, you can be sure that there is a career in construction for you.

2

It's a modern, technologically-advanced sector

With new emerging digital technologies such as **Building Information Modelling, Drone usage, Augmented Reality/Virtual Reality, AI, and Robotics** on the rise within construction, companies are now actively seeking to recruit people with these skills.

If you are interested in technology and innovation, a career in construction could be for you.

3

You can make a difference

A career in construction can give you the opportunity to **create your own legacy** and to be involved in projects in your community that help **you, your family, and your local area**, to prosper in the time ahead.

4

Opportunities to progress, travel, and to become self-employed

A career in construction can provide you with **opportunities to progress and/or travel and work throughout the UK, Ireland and further afield** as well as the potential to become self-employed in your chosen career.

The tide has shifted in recent years, and the split between self-employment and direct employer employment has now swayed towards **more self-employed workers within the NI construction industry**. This is now 55% to 45% (self-employed vs directly employed), an increase from 2018 figures of 46% to 54%*.

*Source: [CITBNI Workforce Mobility Survey](#)

This infographic has been produced in conjunction with the contributors to this bulletin.

Reasons to Consider a Career in Construction

5

Job Satisfaction

Seeing a project through from concept to completion can be **highly rewarding**.

Whether it's constructing a new building, restoring a heritage building or improving infrastructure, construction workers take pride in their contributions to the overall built environment.

6

Every day is different

Every day in construction presents a **unique set of challenges and tasks**, ensuring that the work remains dynamic and diverse.

7

High levels of job satisfaction

Almost 80% of construction workers have only ever worked in the construction industry, and **over 80% believe they will remain over the next 5 years**. 97% want to carry on working in the same trade or occupation*.

8

Endless opportunities to enter the industry

The construction industry is currently facing skills shortages and an ageing workforce.

There has never been a better time to join the industry, gain valuable experience and lead the way into the new era of the built environment.

The largest emitters of greenhouse gases globally are buildings and the construction industry. If you are passionate about helping to combat climate change, the construction industry is a great place to start!

*Source: [CITBNI Workforce Mobility Survey](#)

This infographic has been produced in conjunction with the contributors to this bulletin.

Construction Careers: Myth-Busting

✘ Myth: Construction is only an option if you do not perform well at school and are not academic

✔ Fact: A career pathway into the construction industry has never been so accessible. You can consider options ranging from apprenticeship programmes to higher education (e.g. HNDs, Degrees, Higher Level Apprenticeships).

Construction offers a **wide variety of careers**, from skilled trades, to professional/technical roles, to business support roles.

✘ Myth: Construction jobs are only for boys

✔ Fact: Both men and women work within the construction industry. While there are still more men than women in the industry, **the number of females in construction is growing** and the industry is no longer seen as 'just for boys'. Have a look at some of CITB NI's [Women in Construction case studies](#) highlighting females working in the local construction industry.

CITB NI also has a [Women in Construction Network](#) which brings together women working in the industry to learn from each other and build connections through site visits, events, and meetings.

✘ Myth: Construction doesn't pay well

✔ Fact: Construction offers **well-paid employment opportunities**, and through gaining experience, numerous professionals can climb the ladder to higher-paying roles.

✘ Myth: Construction work is monotonous and lacks creativity

✔ Fact: The construction industry offers **diverse career paths** with **opportunities for growth**, from entry-level positions to management roles or starting your own business. Continuous learning and leadership skills can lead to advancement within the industry.

Construction Careers: Myth-Busting

✘ Myth: Construction work is bad for the environment

✔ Fact: There is a considerable focus on **sustainable building** and leaving a positive legacy on the local environment.

Local communities benefit from construction because it builds infrastructure, for example, to supply clean water and provide waste management systems.

✘ Myth: Working in construction is dangerous

✔ Fact: The UK is at the forefront of workforce health and safety, with **workforce wellbeing** at the core of every project. Companies have learned that everyone has a role to play in taking responsibility for health and safety.

Processes such as risk management plans, regular safety meetings, and keeping a continuous eye on safety have a major impact on reducing construction site accidents and injuries.

✘ Myth: Construction is manual, cold, outdoor work

✔ Fact: There are a variety of roles in the wider industry working across a whole range of different locations and workplaces – including designers, engineers, architects, human resources and technology experts.

Your work can take you **all over the world**, and **no two days are the same**.

Could a Career in Construction be for me?

Transferable skills



Good communication skills



Teamwork and collaboration



Creative thinking



Decision-making skills



Able to follow instructions and health & safety guidelines



People skills



Interdisciplinary working*



Digital skills



Budgeting



Problem-solving



Commercial awareness



Innovation

Transferable qualities



Determined



Flexible and adaptable



Committed



Punctual



Calm under pressure/working towards deadlines



Eager to learn



Enthusiastic



Passionate about helping to combat climate change



Self-motivated



Inquisitive



Hard-working



Attention to detail

***Work involving two or more different subjects or areas of study/knowledge.**

This infographic has been produced in conjunction with the contributors to this bulletin. It is intended to offer an indicative snapshot, rather than an exhaustive list, of some transferable skills and qualities that may be relevant to careers in the construction sector.

Construction Snapshots

This section of the bulletin contains **wide-ranging insights** into the construction sector in Northern Ireland, featuring input from students and graduates from construction-related courses, employers, people working in the sector, and other organisations carrying out important work in the construction industry.

The articles and video clips featured describe some of the **opportunities available**, set out some of the **benefits** of pursuing a career in construction, and share **valuable words of advice** for those considering a career in the sector.



**KIERAN
MCKENNA**

Construction Hub
Manager for FE

**Firstly, we hear from Kieran McKenna,
Construction Hub Manager for
Further Education (FE):**

“On the next page is a selection of some of the successes achieved by trainees, apprentices and students from a variety of construction-related further and higher education courses, across our local FE colleges.

They share their experiences of working and studying towards careers in the construction industry, and offer their advice for those considering a career in the construction sector.

For information on the full range of courses available across Northern Ireland’s FE colleges that may lead to a career in the construction industry, please check out the Entry Routes section of the bulletin.”



Olivia McCloughlin, a student on the Level 3 National Extended Diploma in Civil Engineering at South Eastern Regional College (SERC)

“Throughout school, I had always had an interest in technology and engineering alongside art and design. In school, I enjoyed completing projects and solving problems. It was in my technology class that I found and applied for the course I am currently studying, and now nearing the end of, a Level 3 National Extended Diploma in Construction and Civil Engineering at SERC.



This course has provided me with many opportunities, like listening to guest speakers in class, going on site visits, and work experience trips, helping me gain valuable insight into the construction industry.

I hope, in the future, to use what I've learned in this course at a higher level, to advance in my studies and focus my working career around the skills I have developed during my time at this college.”

My advice:

- ▶ My advice for developing a career is to set defined goals, consider where you are currently and look at where you want to be, in both the short term and long term. Assess your progress and adjust the plans to stay on track.
- ▶ To get to where you want to be, it is important to work hard and deliver the highest possible quality of work. Keeping a healthy work-life balance is an important factor to stay motivated, and to maintain a strong work ethic.
- ▶ Asking for feedback and advice from peers and mentors can greatly help to gain an insight into your strengths and any areas for improvement, this is a good opportunity for growth and enhancing performance.

In the short clip below, we hear from Nathan Downey, a student on the Level 3 Diploma in Plastering at SERC Lisburn.

Nathan tells us what led him into plastering, and what he most enjoys about the Level 3 Plastering course at SERC. He also shares his future career plans, and tells us why he would recommend the course to others.

The short clip below features James Anderson, a student on the Level 2 Diploma in Bricklaying at SERC.

James explains why he chose this particular course, and reveals how Project Based Learning (PBL) has helped him to develop new skills. He also tells us about his career plans for the future, and why he would recommend the course to others.



CITB NI (Construction Industry Training Board Northern Ireland)

What is CITB NI?

CITB NI (Construction Industry Training Board Northern Ireland) advocates for a **safe, professional and fully-qualified construction industry workforce** in Northern Ireland, by encouraging the adequate training of those employed, or intending to be employed, in the local construction industry.

CITB NI also aims to ensure that **current and future construction skills needs are identified and understood**, so that there is a **skills pipeline** (availability of appropriate training/qualifications) to supply these sectoral skills needs.

CITB NI Careers Resources

CITB NI has a wealth of information to help guide you through what careers are available in the construction sector. Simply visit the [CITB NI Careers website](#), where you will find lots of information that will signpost you to what careers are on offer within the industry.

There are also additional careers resources in this CITB NI [Careers Information Pack](#).

The career video below showcases the varied and wide-ranging opportunities available within construction:

In addition, these [CITB NI Case Studies](#) include insights from apprentices; higher level apprentices; a business owner and a site manager; as well as written case studies from a range of employers, apprentices and females, all working in our local construction industry.

Úna Barrett – Women in Construction – Felix O’Hare & Co Ltd

Úna Barrett is a KTP (Knowledge Transfer Partnership) Carbon Associate who works with Queen’s University Belfast and at Felix O’Hare. In the short video clip below, Úna:

- ▶ Tells us about her role and what drew her towards a career in construction and the built environment
- ▶ Talks about the pathway she pursued into the sector
- ▶ Shares some valuable words of advice for any woman who is thinking about pursuing a career in construction
- ▶ Explains why she would highly recommend a career in the sector

You can watch the video clip below to hear Úna’s story:

Ulster University – Graduate Snapshots

In this feature, graduates from Ulster University’s School of Architecture and the Built Environment outline how they have been able to translate learning into practice in their respective roles.

BSc (Hons) Building Surveying

“I appreciate the dynamic nature of the job. The diversity of projects and challenges keeps me engaged, and I enjoy the continuous learning opportunities that arise.”

Year of graduation: 2023

Current job title:
Building Surveyor

BSc (Hons) Construction Engineering & Management

“The course not only educates you on the real-life aspects of construction, but how to communicate and organise your time effectively. Additionally, it offers a placement year, which involves working in the industry for a year whilst earning a respectable salary.”

Year of graduation: 2023

Current job title:
Project Manager

BSc (Hons) Energy

“I love being able to have the opportunity of actually implementing battery storage projects. It really makes me feel like I am making a difference in helping towards climate change and reducing the reliance on fossil fuels.”

Year of graduation: 2020

Current job title:
Project Engineer for Hybrid Energy Systems

BSc (Hons) Quantity Surveying & Commercial Management

“I enjoy seeing a building transform, from starting on site and then becoming completed as a finished project. Every day is different and there is always something new to learn in the construction industry.”

Year of graduation: 2023

Current job title:
Quantity Surveyor

BSc (Hons) Real Estate

“I like being able to work in a team, and independently. Working in the retail team allows me to meet potential local, national and international tenants, clients and different retailers on a daily basis. I love the great variety of tasks.”

Year of graduation: 2020

Current job title:
Chartered Surveyor (Retail Agency)

BSc (Hons) Architectural Technology and Management

“I am able to implement energy-saving techniques in projects to make homes more energy-efficient and to combat climate change. Each day is different and my job pushes me to always learn new things.”

Year of graduation: 2021

Current job title:
Architectural Technologist & SAP Assessor



Queen's University Belfast (QUB) – Student Snapshots

In this feature, we take a look at some snapshots of student experiences across courses in QUB's School of Natural and Built Environment.

BSc (Hons) Architecture

"The key to Architecture is **problem-solving**, and it's a subject where you find out a lot about yourself."

Sam Mathers,
QUB undergraduate student

MSc City Planning and Design

"This course at QUB has the perfect blend of **theoretical and applied-based learning** within the UK planning context, giving you opportunities to develop relationships with groups and individuals within the planning world that can help with your job prospects in the future.

A planning degree is a vital degree that is very under-recognised when you come out of secondary education. I feel secure in the knowledge that I will definitely be going straight into a **planning-related job** after my studies."

Cameron Holmes,
QUB postgraduate student

MArch Architecture

"Architecture has the potential to **change the world** and is a very progressive subject."

Amy Meddings,
QUB postgraduate student

BSc (Hons) Planning, Environment and Development

"This degree programme has provided a very stable and direct pathway for my future career development in the planning field, **standing me in good stead for a career in planning.**"

The option to take a **placement year** is also highly beneficial, and there are lots of excellent opportunities for fieldwork throughout the course, including a study in a **European city** at Level 3."

Danny Farragher,
QUB undergraduate student



LYNN CARVILL,
Chief Executive, WOMEN'STEC



WOMEN'STEC **Construction careers are #NotJustForBoys**

Based in North Belfast, **WOMEN'STEC** is the largest provider of non-traditional skills training for women in Northern Ireland.

It offers training in joinery; furniture-making; plumbing; painting; wallpapering; electrics; gardening; bricklaying; car mechanics; tiling; and more, enabling women to take up employment in non-traditional sectors.

In this article, **WOMEN'STEC** CEO, Lynn Carvill, explains more about the organisation, the training and support it offers, and shares her advice for females considering a career in construction.

What is WOMEN'STEC?

WOMEN'STEC is based in North Belfast and provides **trade skills training and confidence building for women and girls**. Our programmes aim to empower women by building self-confidence and independence, and we promote and support participants' self-efficacy to take on challenges in their personal lives, education and training, and employment.

Working closely with the local construction industry, **WOMEN'STEC** facilitates **female access to work opportunities in non-traditional sectors**, engaging women and girls through trades, horticulture and IT.

Our ethos and mission challenges outdated conceptions surrounding gender stereotypes by offering women the opportunity to experience and build hands-on trades skills, which the majority of women have never tried before.



What kind of training programmes/courses and support does WOMEN'STEC offer?

WOMEN'STEC offers practical trades courses in **joinery, carpentry, plumbing, painting and decorating, electrics, horticulture, bricklaying, car maintenance and tiling**. We are proud to be a registered OCN NI Centre and all courses can be delivered up to an OCN Level 2 certification.

The practical skills training forms the core of **WOMEN'STEC's** approach to personal development and confidence building, and our focus on the delivery of "non-traditional" trade skills has proven very successful in terms of positive impact.

Across these programmes, **WOMEN'STEC** offers support and training programmes to women of all ages from school girls to young mothers and women returners.

One programme helps **young mothers**, using DIY and trade skills sessions to **build independence and confidence**, the majority of whom are facing multiple barriers to training and employment. **Providing free, on-site childcare** enables the young mothers to have the freedom to attend courses while knowing their children are being looked after in the same building.

Our **Promoting Opportunities Programme: #NotJustForBoys**, our flagship programme, intersects with growing awareness and initiatives to **encourage more young women to consider careers in sectors where they are significantly under-represented**. The project works directly with local schools and industry to inspire girls to explore non-traditional career pathways through **taster sessions, site visits, female role models, work experience placements and mentoring opportunities**.

WOMEN'STEC has recently expanded into Newry, Mourne and Down and is delivering classes in our workshop in Newry and all across the district with **outreach** classes. Our **#NotJustForBoys** programme is also working in Newry with local youth groups.

This outreach format allows us to take our workshop on the road and deliver to locations across Northern Ireland. This allows us to reach more rural areas and empower more women and girls.



What advice would you give to women and young girls considering a career in construction?

- 1** Try to seek out **positive female role models and mentors** – such as **WOMEN'STEC** and **#NotJustForBoys** – who will be able to provide you with advice and guidance. It can be **inspiring** to speak to other females, and hear their successes and passion for what they do.
- 2** Remember that many young women, who have never considered a “non-traditional” pathway, possess the **personal characteristics and transferable skills** that are essential for working in construction and other “non-traditional” sectors.

Kayla's Story

WOMEN'STEC were approached by an external training organisation and asked if we could support Kayla to source a placement in joinery.

Kayla was studying to be a joiner and had approached approximately 15 local construction firms to try to get a placement or an apprenticeship. She was turned down by all of them, with a small number stating the reason for not taking her was because she was a girl.

WOMEN'STEC, through our strong links to employers in the construction sector, were able to support Kayla to get a placement with the local Housing Executive Direct Labour Organisation (DLO) where she has been thriving the last few months. She is now aiming to get an apprenticeship with a local contractor to continue her studies.



BRENDA O'LOAN

(ICE NI Chair 2023-2024)



Institution of Civil Engineers (ICE) – Pathways into civil and infrastructure engineering careers

Brenda O'Loan of the **Institution of Civil Engineers (ICE)** talks to us about civil engineering and the role of ICE.

She also explains how civil engineering can contribute to a more sustainable future and highlights the wide range of entry and progression routes available.

What is civil engineering and what is the role of ICE?

Civil engineers **design, create and connect up** the world around us. They help make our villages, towns and cities work for the people living there and are vital in helping provide the infrastructure underpinning everything we do.

The **Institution of Civil Engineers (ICE)** is a professional membership body that governments and industry listen to for our members' expertise. We also provide support and knowledge-sharing to our **97,000 civil engineer members** around the world.

Civil Engineering and sustainability

This is an exciting time to join the civil and infrastructure engineering profession. People and government here are driving big changes to make sure we **live in a sustainable way**, so there is a lot of work to be done as we update our **energy systems, travel options**, and **our ways of living and working**.

Civil and infrastructure engineers will be at the heart of providing the infrastructure to enable these changes, making a real difference and improving people's lives and our environment.

Did you know?

Studies have shown that our local sector needs many more civil and infrastructure engineers to deliver what we need, so there are huge opportunities and demand for these valuable skills.

Entry routes

There are a **wide range of entry routes** into civil and infrastructure engineering careers. You could:

- ▶ **Stay in education**, for A-levels or a BTEC Diploma at school or college, and then you might want to progress to higher education (at university or one of the FE colleges) to continue your studies.
- ▶ **Become a civil engineering apprentice** and study at college or university while also learning (and earning!) on the job, right up to Master's degree level.

Find out more about these options at [ICE - How can I become a civil engineer](#)

Career progression

Once you have good experience and have developed your expertise, the best way to show how much you know and can do in your job is to become **professionally qualified** with ICE and add letters after your name – our three grades of professional membership are Engineering Technician (EngTech MICE), Incorporated Engineer (IEng MICE) and Chartered Engineer (CEng MICE).

ICE qualifications are **recognised internationally**, so you could potentially work anywhere in the world. When you qualify professionally, you're also telling employers that you're **highly capable and committed**. This puts you in a stronger position when it comes to promotion and pay.

Infrastructure is everything you see that's been built around us. It's about roads and railways, schools, offices, hospitals, water and power supply and much more. The kinds of things we take for granted, but would find life very hard to live without.

Emma Downey

Emma Downey is an Apprentice Engineer Technician who works for Doran Consulting.

In this short feature, Emma tells us about her civil engineering career journey to date, and provides us with some interesting insights into higher level apprenticeships and civil engineering careers.

She also reveals her proudest career achievement to date and shares some words of advice for anyone considering civil engineering or higher level apprenticeships.



How did you get into your current role?

I joined **Doran Consulting** five and a half years ago on a Higher Level Apprenticeship scheme.

I studied at Belfast Metropolitan College for two years to complete my Foundation degree, and then I went on further to Ulster University, where I'm studying to hopefully graduate with a Bachelor's degree.

What skills and attributes are important in a civil engineering career?

I would say the following skills and attributes are important:

- ▶ **Teamwork** – it's very important to be a team player, as every day you're working within a team – not only within your own company but also with external members from different companies.
- ▶ **Communication** – you need to have effective communication skills so that everyone's clear on their role and deadlines throughout the whole design team.

What skills and attributes are important for a Higher Level Apprenticeship?

While doing the Higher Level Apprenticeship, I feel like an important aspect is **time management** – getting the correct balance between your working life, your studying, and also your social life.

What has been your proudest achievement in your career so far?

My **proudest moment so far** was being awarded the Jean Venables Medal from the ICE for my EngTech Review [professional qualification] in 2023.

What would you say to someone considering a career in civil engineering?

I would definitely recommend a career in civil engineering. One thing I really like is that anything I **design in the office**, I can also get the experience of **going out on site** and seeing it through the construction phase.

What would you say to someone considering a Higher Level Apprenticeship?

I would also definitely recommend an HLA – as after six years you have a **degree, six years' experience, and no student debt**. The six years' experience of what you learn out in the field is also relevant to what you're learning in class, so I find it easier to learn.

Curtis Pollock

In the short video clip below, we hear from Civil Engineering graduate Curtis Pollock, who works as a graduate Site Engineer at GRAHAM.

Curtis outlines his career journey to date, and tells us about his current role and what his day-to-day job involves.

He also describes some attributes and skills which he feels are particularly important in his job, and shares some valuable words of advice for anyone who is considering a career in civil engineering.



GAVIN MCGUIRE

Director of the Federation
of Master Builders in
Northern Ireland



Federation of Master Builders

The Federation of Master Builders (FMB) is the **UK's largest trade association for the construction industry.**

We have a proud history of supporting and promoting small and medium-sized building companies – including sole traders – across England, Northern Ireland, Scotland, and Wales, since we were established in 1941 celebrating our 80th anniversary this year.

We are champions of **quality construction work** and we advocate for **continuous improvement** in building standards. We are passionate about supporting our members to attract new people into the industry, from all backgrounds, and training existing workers in the skills they will need for the future.

In this video clip, **Gavin McGuire, Director of the Federation of Master Builders in Northern Ireland**, offers a short overview of why the construction industry is important to Northern Ireland, and what advice he would offer people who are considering a career in the sector:

You have the opportunity to create your own legacy, be involved in projects in your community, that help you, your family, and your local area, to prosper in the time ahead. ”



Federation of Master Builders – Career Snapshots

**In this short clip, we hear from
Dessie at AMC Construction.**

Dessie talks to us about:

- ▶ His current role and how he got into the construction industry
- ▶ Skills and qualities that are important for working in construction
- ▶ What he most enjoys about working in construction
- ▶ Advice for others considering a career in the industry

**In this short clip, we hear from
Matthew at Rahoran. Matthew**

tells us about:

- ▶ How he got into construction
- ▶ Skills and qualities that are important for working in construction
- ▶ Advice for others considering a career in the industry

**In this short clip, Nick at CTS
talks to us about:**

- ▶ His role in the construction sector
- ▶ What he most enjoys about working in construction
- ▶ Advice he would give to someone considering a career in construction

CAREERS SERVICE

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Bulletin

Civil and Infrastructure Engineering in Government

The Department for Infrastructure (DfI) is responsible for the maintenance, development and planning of critical infrastructure in Northern Ireland. Through its focus on water, transport and planning, the Department is seeking to manage and protect over £37bn of public assets which are essential to the daily functioning of life in Northern Ireland and reduce our impact on the planet by living sustainably.

Those assets include 25,000km of roads, 6,000 bridges, 9,700km of footways, approximately 300,000 streetlights, 426km of raised flood defence embankments and flood walls, 26km of coastal defences and approximately 364km of below ground culverts.

To deliver these important public services, the Department employs around 800 Professional and Technical staff, mostly Civil Engineers, including Technicians, Incorporated and Chartered Engineers.

To find out more about career opportunities at DfI, please visit the [Department for Infrastructure Careers Opportunities Portal](#).



Advice for those Considering a Career in Construction

General advice:

- 1 Take plenty of time to **research your career options**. E.g. be aware that some trades are oriented towards indoor work, while some are oriented towards outdoor work.
- 2 Get stuck in. Look out for opportunities to **learn and challenge yourself**. Also don't be afraid to **ask questions**. Get involved in hands-on activities such as woodworking, building small projects, or even helping out with household repairs. This will give you a basic understanding of tools, materials, and construction techniques.
- 3 **Be proactive** and take responsibility for 'constructing' your own career. Construction offers a wide range of career paths, including carpentry, electrical work, plumbing, project management, architecture, engineering, and more. Explore these different options to find what interests you the most.
- 4 Construction requires **hard work, dedication, and a positive attitude**. Show up on time, work diligently, and be willing to learn from others. Employers value employees who are reliable and have a strong work ethic.

Advice for school/college students and apprentices:

- 1 Regardless of which area in construction you're aiming for, it's important to be able to demonstrate **commitment and enthusiasm**. Contact your local training provider, FE college or university for course information and entry criteria.
- 2 Look for opportunities to gain **work experience**, to test out your interests.
- 3 **Research course options** in order to try and find something that captures your interest.
- 4 Make subject selections based on what you **enjoy** and what **challenges** you in a **rewarding** way.
- 5 If you are an apprentice, **take pride in your apprenticeship** and it could lead to a **rewarding, well-paid career**.
- 6 Expand on **extra-curricular activities** – join societies in school/college that support Science, Technology, Engineering and Maths (STEM) activities.

This infographic was produced in conjunction with the contributors to this bulletin.

Advice for those Considering a Career in Construction

Advice to higher education students/graduates:

- 1 **Work experience, placements**, and other **work-based learning opportunities** can be highly beneficial, as they can guide you in figuring out where your **interests and strengths** lie and help you to eventually **find employment** in the sector.
- 2 Use the resources and support offered by your **university or college careers service** to further develop your employability skills and explore careers in the construction industry.
- 3 **Join LinkedIn** – explore and expand your local networks and attend industry events. Build relationships with professionals in the construction industry. Join professional organisations, and connect with people through social media platforms like LinkedIn. **Networking can open doors to job opportunities and mentorship.**
- 4 Construction is an **ever-evolving field** with **new technologies and techniques** emerging constantly. Stay updated on industry trends, attend workshops, and pursue additional certifications or training to enhance your skills.

New technologies mean the construction industry is changing, growing, and adapting all the time. ”

This infographic was produced in conjunction with the contributors to this bulletin.

Advice to career changers:

- 1 Whatever your talent, you can be sure that there is a **career in construction for you**. It's never too late to return to work and join the construction industry. Try and get some experience with an employer and contact your local training provider and FE college for information on courses.
- 2 New technologies mean the construction industry is changing, growing, and adapting all the time. There may be roles that use **skills and knowledge you have gained in previous jobs/other areas of your life** that are transferable into the construction industry.
- 3 **Research the roles** that may interest you within the construction industry. It is also worth talking to employers and careers advisers to get a feel for the career opportunities available.
- 4 Check out the 'Useful Websites' section of this bulletin, including the [CITB NI careers website](#) – which provides extensive information on **construction careers, as well as the latest research and career opportunities.**

CAREERS SERVICE

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There are a **range of entry routes available in Northern**

Ireland for those who would like to pursue a career in **Construction and the Built Environment**. This section provides an **overview of course provision** at our local FE Colleges and universities.

The [Careers Service](#) has produced [A Guide to Career Entry Routes](#), a concise resource offering an overview of entry routes available locally, and the progression between different levels of qualification, from Entry Level through to Level 8.

The guide covers traditional classroom-based education provision, such as A Levels; vocationally-related qualifications/vocational education and training, such as apprenticeships; as well as training programmes, such as those funded by DfE.

Contact the Careers Service

The Department for the Economy's Careers Service provides free, professional and impartial careers advice and guidance to help you make informed choices about your future career.

For further information, or if you would like to discuss your options, please contact the [Careers Service](#).

Please note that the qualifications and course information listed in this section of the bulletin are not exhaustive. It is advisable to carefully research entry criteria for any courses or career paths you are considering, and to contact local schools, FE colleges, and universities for further info.



NI FE Colleges – Construction courses

KIERAN MCKENNA

Construction Hub
Manager for FE



“There are a wide range of courses available across our local FE colleges that are relevant to careers in Construction and the Built Environment.

Courses are available from Level 1-Level 6, and include **FE courses, Apprenticeships, Higher Level Apprenticeships, HNCs, HNDs, and Top-Up Degrees**. If you are interested in applying for any of the courses, I would encourage you to contact your local FE college to discuss course availability, entry requirements, and progression routes, etc.”

LEVEL 2 (FE courses, Level 2 Apprenticeships)

Level 2 Construction FE and Apprenticeship courses provide you with broad-based knowledge and skills which underpin general craft and technical construction areas.

The curriculum provides knowledge, covering the fundamental principles of building construction, interpreting construction drawings and Computer Aided Design. The curriculum also develops skills in areas including Brickwork, Plastering and Wall & Floor Tiling.

LEVEL 3 (FE courses, Level 3 Apprenticeships)

Level 3 Construction courses build upon the foundational knowledge gained at Level 2 and begin to specialise in areas including Civil Engineering and Construction & the Built Environment.

The curriculum covers Construction Design Principles, Design & Technology, Surveying and Project Management.

LEVEL 4 (HNCs, HLAs as applicable, etc.)

Level 4 courses include Higher National Certificates (HNCs), and Higher Level Apprenticeships (HLAs). They are typically delivered part-time and as such are suitable for employed persons.

Topics studied include Civil Engineering Technology, Digital Applications for Construction Information and Construction Technology.

LEVEL 5 (HNDs, Foundation Degrees (FD), etc.)

Level 5 programmes are often chosen by those seeking roles in construction or technical management.

Foundation Degrees in Construction have specialisms in Construction Engineering with Surveying, Civil Engineering and Building Services. Duration is typically 2 years full-time and 3 years part-time.

LEVEL 6 (TOP-UP DEGREES)

Level 6 top-up degrees provide opportunities for college students to top up a HLA/ Foundation Degree to a BSc or BEng degree.

Top-up degrees can be completed part-time, supporting students who are employed.

The Road to Decarbonisation – Green Technology courses

In this short feature, Kieran McKenna, Construction Hub Manager for FE, tells us about the full range of **green technology courses** available across our local Further Education & Higher Education sector, suitable for both upskilling and reskilling.

As part of the drive towards **Net Zero**, these courses support the development of **green technology-related knowledge and skills**, required to meet the needs of the Department for the Economy's four key objectives as part of a new Economic Mission (Good Jobs; Regional Balance; Productivity; Net Zero).

The Green Economy

The **Green Economy** will replace the current fossil fuel economy, which will in turn change trends in both current building practices and energy consumption levels.

This will be a big factor in how the homes of the future will be designed and used, and will also have **major impacts on employment and career opportunities** – as new, exciting technologies and industries become key parts of the construction industry.

The reduction of our carbon footprint will offer economic opportunities and require a **skilled workforce** to build **our green technology** footprint and respond to demand.

Green Technology courses

The Further & Higher Education sector in Northern Ireland has a full suite of **green technology courses**, suitable both for upskilling and reskilling.

The **green technology courses** offered across our local Further & Higher Education sector range from Level 2 to Level 5 and cover the three main areas required from industry:

- ▶ Introductory Level 2
- ▶ Licence to Work Level 3
- ▶ Academic Learning Pathways Level 5

A list of green technology courses is provided on the right-hand side of this page.

Green Technology courses offered across Further Education & Higher Education:

- ▶ Wind Power (Level 5)
- ▶ Hydrogen (Level 2, Level 3 & Level 5)
- ▶ Anaerobic Digestion (Level 2 & Level 5)
- ▶ Heat Pumps (Level 3 & Level 5)
- ▶ HVO Oil (Introductory – OFT50 & Level 5)
- ▶ Solar PV & Solar Thermal (Level 3 & Level 5)
- ▶ EESS – Battery Storage Systems (Level 3 & Level 5)
- ▶ Electric Cars (Level 3 & Level 5)
- ▶ Off Grid – PV/EESS (Level 5)
- ▶ Retrofitting Domestic Properties (Level 2 & Level 5)
- ▶ Extended Certificate in Retrofitting/PAS35 Retrofit Co-ordinator (Level 5)

Please note: it is advisable to consult with our local FE colleges and universities for the most accurate and up-to-date information regarding their course provision.

Ulster University – Construction and the Built Environment courses

What courses are available at Ulster University that may lead to careers in the Construction sector?

There are a wide range of courses offered by the Belfast School of Architecture and the Built Environment (BSABE) at Ulster University, which can lead to rewarding and enjoyable careers and which can cater for a range of interests, both at **undergraduate** and **postgraduate** levels.

Undergraduate

Courses available for undergraduate students at **Ulster University's Belfast School of Architecture and the Built Environment** include:

Architecture; Architectural Engineering; Architectural Technology and Management

- ▶ BA (Hons) Architecture
- ▶ BEng (Hons) Architectural Engineering
- ▶ MEng (Hons) Architectural Engineering
- ▶ BSc (Hons) Architectural Technology and Management

Surveying

- ▶ BSc (Hons) Building Surveying
- ▶ **BSc (Hons) Quantity Surveying and Commercial Management**

Civil Engineering and Construction Engineering

- ▶ BSc (Hons) Civil Engineering
- ▶ BEng (Hons) Civil Engineering
- ▶ **MEng (Hons) Civil Engineering**
- ▶ **BSc (Hons) Construction Engineering and Management**

Planning, Regeneration and Development

- ▶ BSc (Hons) Planning, Regeneration and Development
- ▶ MSci (Hons) Planning, Regeneration and Development

Environmental Health; Energy; Real Estate

- ▶ BSc (Hons) Environmental Health
- ▶ BSc (Hons) Energy
- ▶ BSc (Hons) Real Estate

Postgraduate

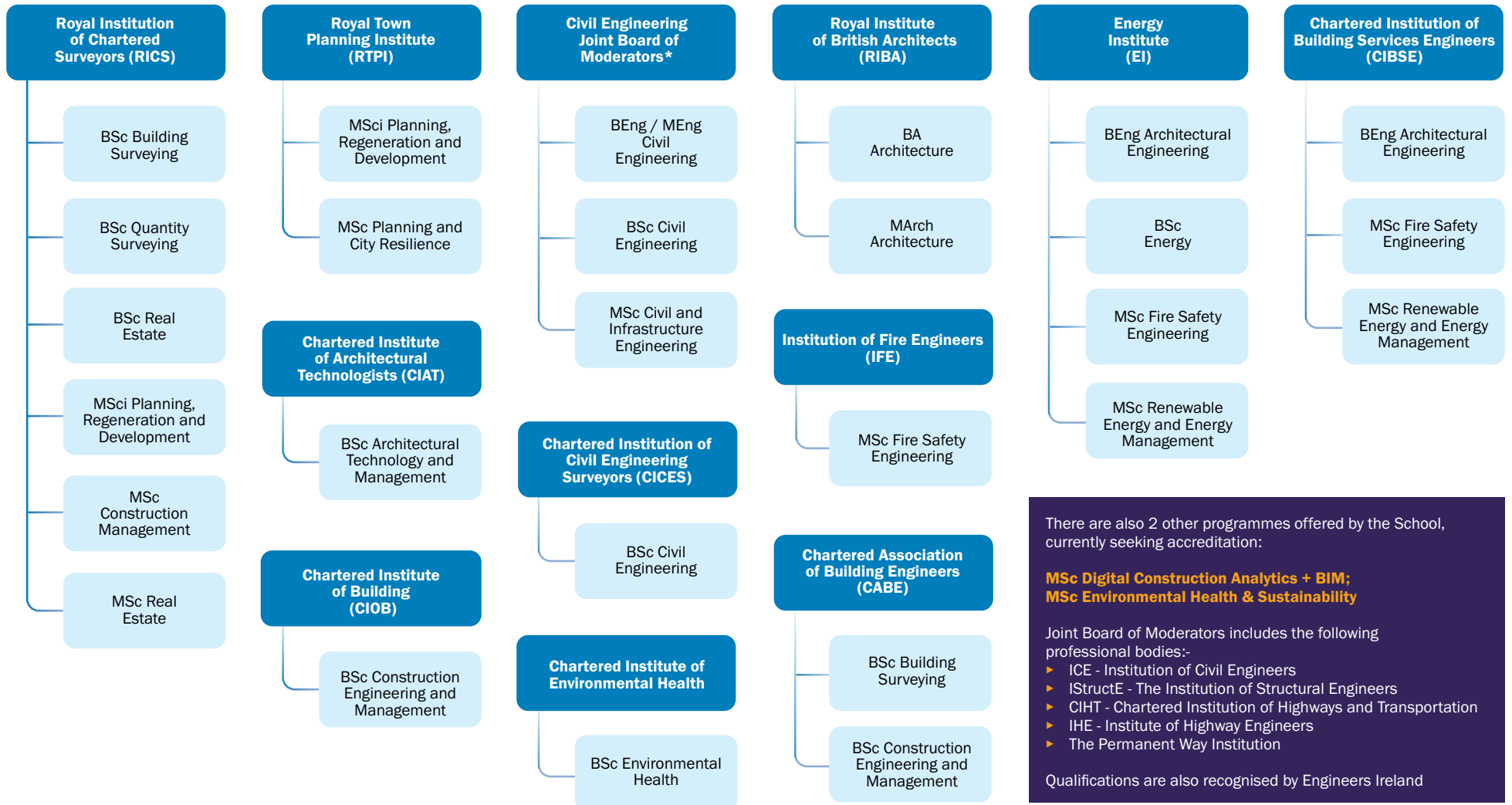
Postgraduate courses on offer at **Ulster University's Belfast School of Architecture and the Built Environment** include:

- ▶ MArch Architecture
- ▶ **PgDip/MSc Civil and Infrastructure Engineering**
- ▶ PgCert/PgDip/MSc Construction Management
- ▶ **MSc Digital Construction Analytics and BIM**
- ▶ MSc Energy Storage
- ▶ MSc Energy Storage Applied Research
- ▶ PgDip/MSc Fire Safety Engineering
- ▶ MSc Global Strategy in Environmental Health and Sustainability (*course title is due to change to: MSc Environmental Health and Sustainability*)
- ▶ MSc Planning and City Resilience
- ▶ MSc Real Estate
- ▶ MSc Real Estate Applied Research

Many of these courses are offered as a part-time option, enabling people to study at a time and pace that meets their needs, while our range of Master's level courses enables continuing professional development opportunities. We also offer an increasing range of Higher Level Apprenticeships in partnership with the Department for the Economy.

Construction is a wide and diverse sector which caters for a wide range of interests. Whether you're thinking about which subjects to study, considering your options or looking for a development opportunity, check out our website: [Belfast School of Architecture and the Built Environment website](https://www.bsabe.ulster.ac.uk) or contact us via e-mail: BSABE@ulster.ac.uk.

Please note: the courses highlighted in bold are also available as Higher Level Apprenticeships (HLAs).



There are also 2 other programmes offered by the School, currently seeking accreditation:

MSc Digital Construction Analytics + BIM;
MSc Environmental Health & Sustainability

Joint Board of Moderators includes the following professional bodies:-

- ▶ ICE - Institution of Civil Engineers
- ▶ IStructE - The Institution of Structural Engineers
- ▶ CIHT - Chartered Institution of Highways and Transportation
- ▶ IHE - Institute of Highway Engineers
- ▶ The Permanent Way Institution

Qualifications are also recognised by Engineers Ireland

The Open University – Construction courses (delivered at Southern Regional College – SRC)

The Open University validates the following higher education courses, which are delivered at Southern Regional College (SRC):

BSc (Hons) Construction Level 6 Degree (Top-Up) Higher Level Apprenticeship

Overview

The aim of this course, accredited by The Open University, is to equip students with the ability to apply their understanding, knowledge, experience, skills and know-how to create social and economic value within the context of the Northern Ireland and UK economy.

It aims to produce graduates who:

- ▶ Understand the principles underpinning the construction sector
- ▶ Can conceive, design and implement a solution to a problem
- ▶ Can create something new, which adds value to an organisation and society, within the boundaries of organisational strategy and societal ethics

Construction (Quantity Surveying) Level 5 Foundation Degree Higher Level Apprenticeship

Overview

This 3-year Higher Level Apprenticeship, accredited by The Open University, equips students with a comprehensive understanding of quantity surveying principles and practices within the construction industry.

It is designed to produce apprentices who can:

- ▶ Understand, utilise and develop the skills needed whilst working in the construction industry
- ▶ Build transferable skills in communication, teamwork, and the ability to self-reflect

Students are provided with a broad-based education, complemented by a range of skills encompassing Quantity Surveying and with an emphasis relevant to local industry.

Construction (Digital Construction Management) Level 5 Foundation Degree Higher Level Apprenticeship

Overview

This 3-year Higher Level Apprenticeship, accredited by The Open University, equips students to adopt digital technology to work effectively in the construction industry – which has undergone a digital revolution with the development of ‘Building Information Management’ throughout the whole life cycle of the building and construction process.

It is designed to equip apprentices with the ability to:

- ▶ Understand, utilise and develop the digital skills and knowledge needed whilst working in the construction industry
- ▶ Build transferable skills in communication, teamwork, and the ability to self-reflect

Digital construction management entails the implementation of a data-driven approach in order to create a more effective construction process. The most exciting element of Digital Construction Management is using new technology to capture construction progress and its context.

OpenLearn Level 3 courses

The Open University (OU) also offers the following OpenLearn Level 3 free courses, which are relevant to construction and structural engineering:

[Introduction to finite element analysis](#) [Tay Bridge disaster](#)

If you are interested in applying for any of these courses, please contact Southern Regional College or The Open University to discuss course availability, entry requirements, and progression routes, etc.

QUB offers a range of undergraduate and postgraduate courses relevant to Construction. These include, but are not limited to, disciplines such as Architecture, Civil Engineering, Structural Engineering, and Planning.

There may also be opportunities to spend a year in industry/ incorporate a placement as part of your studies. You can find full information on the range of courses on offer (spanning both undergraduate and postgraduate courses) by visiting the [Course Search](#) section of the QUB website.

Queen's University Belfast (QUB) – Construction courses

Undergraduate

Architecture

- ▶ **BSc Architecture (RIBA Part 1)**

Civil Engineering

- ▶ **BEng Civil Engineering**
- ▶ **Higher Level Apprenticeship (HLA) BEng Civil Engineering**
- ▶ **MEng Civil Engineering**
- ▶ **MEng Environmental and Civil Engineering**

Planning

- ▶ **MPlan European Planning**
- ▶ **BSc Planning, Environment and Development**

Structural Engineering with Architecture

- ▶ **MEng Structural Engineering with Architecture**

Postgraduate

Architecture

Postgraduate taught

- ▶ **MArch Architecture (RIBA Part II)**
- ▶ **PGCert Professional Practice in Architecture (RIBA Part III)**
- ▶ **MSc Applied Architecture & Design**
- ▶ **PGCert Cinematic Architecture**

Postgraduate research

- ▶ **MPhil Architecture**
- ▶ **PhD Architecture**

Project Management

Postgraduate taught

- ▶ **MSc Building Information Modelling Project Management** (this is also available as a Higher Level Apprenticeship)
- ▶ **MSc Construction and Project Management** (this is also available as a Higher Level Apprenticeship)

Civil Engineering

Postgraduate research

- ▶ **MPhil Civil Engineering**
- ▶ **PhD Civil Engineering**

Postgraduate taught

- ▶ **MSc Environmental Engineering**

Planning

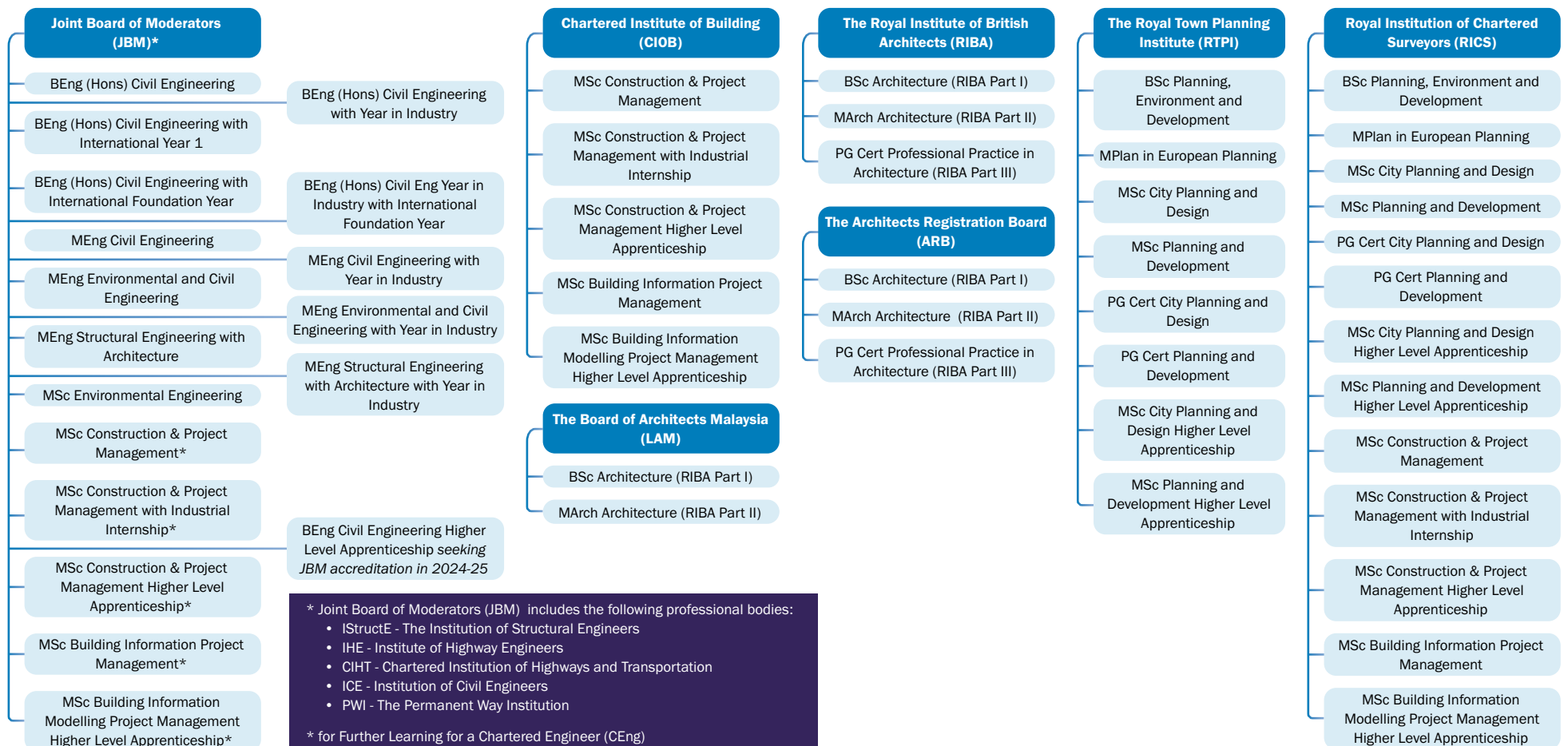
Postgraduate taught

- ▶ **MSc City Planning and Design** (this is also available as a Higher Level Apprenticeship)
- ▶ **PGCert City Planning and Design**
- ▶ **PGCert Planning and Development**
- ▶ **MSc Planning and Development** (this is also available as a Higher Level Apprenticeship)

Postgraduate research

- ▶ **MPhil Planning**
- ▶ **PhD Planning**

You can find out more about postgraduate study at QUB by visiting the [Postgraduate Study](#) section of the QUB website. You can also search for postgraduate research opportunities on the [A-Z of Research Opportunities](#) section of the QUB website.



Construction Graduate Destinations



Local Employers

- ▶ AECOM
- ▶ AES Kilroot Power
- ▶ Alskea
- ▶ Amelio Group
- ▶ Arcadis
- ▶ Arup
- ▶ BAM Construction
- ▶ Breedon Group
- ▶ Caldwell
- ▶ Central and local government
- ▶ Chandos Construction
- ▶ Cundall
- ▶ E C Harris
- ▶ Farrans Construction
- ▶ Felix O'Hare
- ▶ FP McCann
- ▶ GEDA Construction
- ▶ Gilbert Ash
- ▶ Graham Construction
- ▶ H&J Martin
- ▶ Harland and Wolff
- ▶ Harvey Group
- ▶ Health and Social Care Trusts
- ▶ Henry Brothers
- ▶ Heron Bros
- ▶ Jacobs
- ▶ John Sisk and Son
- ▶ Local Authorities
- ▶ Local Councils
- ▶ MACE
- ▶ Malcolm Hollis
- ▶ Mascott Construction
- ▶ McAdam Design
- ▶ McAleer and Rushe
- ▶ Sweco
- ▶ McAvoy Group
- ▶ McLaughlin and Harvey
- ▶ Moffitt & Robinson
- ▶ Moore MacDonald
- ▶ Mott MacDonald
- ▶ MSM Contracts
- ▶ Northern Ireland Civil Service
- ▶ Northern Ireland Housing Executive
- ▶ O'Hare and McGovern
- ▶ Power NI
- ▶ Semple & McKillop
- ▶ Tetra Tech
- ▶ Turner & Townsend
- ▶ Vaughan Engineering
- ▶ VB Evans
- ▶ W H Stephens
- ▶ William & Henry Alexander Civil Engineering Ltd



Construction-related Careers

- ▶ Building Control Officer
- ▶ Construction Engineer
- ▶ Urban Designer
- ▶ Fire Safety Engineer
- ▶ Quantity Surveyor
- ▶ Architect
- ▶ Energy Technology Designer
- ▶ Environmental Health Consultant
- ▶ Energy Systems Consultant
- ▶ Energy Policy Design and Implementation
- ▶ Property Developer
- ▶ Facility Manager
- ▶ Site Engineer
- ▶ SHEQ Safety Health & Environmental Advisor
- ▶ Quality Assurance Auditing
- ▶ Architectural Engineer
- ▶ M&E Engineer
- ▶ BIM Information Manager
- ▶ Energy Manager
- ▶ Geotechnical Engineer
- ▶ Energy Analyst
- ▶ Project Engineer
- ▶ Civil/Structural Engineer
- ▶ Contracts Manager
- ▶ Architectural Technologist
- ▶ Town Planner
- ▶ Estate Surveyor
- ▶ Specialist in Conservation of Historic Buildings
- ▶ Development Officer
- ▶ Project Manager
- ▶ Energy Systems Engineer
- ▶ Land Surveyor
- ▶ Building Control Surveyor
- ▶ Design Engineer
- ▶ Maritime Engineer
- ▶ Energy Market and Business Consultant
- ▶ Building Services Engineer
- ▶ Design Consultant
- ▶ Food Quality Manager
- ▶ Health and Safety Officer
- ▶ 3-D Visualiser



Other Careers

- ▶ Stage Set Design
- ▶ Research & Innovation
- ▶ Housing Policy
- ▶ Education/Teaching
- ▶ Furniture Design
- ▶ BIM
- ▶ Virtual & Augmented design
- ▶ EDI (Equality, Diversity and Inclusion)
- ▶ KTP (Knowledge Transfer Partnerships)
- ▶ Sustainability
- ▶ Carbon Officer
- ▶ HSE (Health and Safety Executive) Manager
- ▶ Conservation & Heritage Officer
- ▶ Disaster Relief Manager
- ▶ Cinema Set Designer
- ▶ Boat Designer
- ▶ Architectural Journalist
- ▶ Photographer

Please note: this infographic is intended to offer an indicative snapshot, rather than an exhaustive list, of some construction destinations that local undergraduates/postgraduates, from across a range of academic disciplines at our local FE colleges and universities, have moved into. It was produced in conjunction with the contributors to this bulletin. Please also note that some of the career pathways featured may require additional or postgraduate study.

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Useful Websites



Relevant NI websites

- ▶ [Construction Industry Training Board \(CITB NI\)](#)
- ▶ [Construction Employers Federation](#)
- ▶ [Pulsar – NI Women in STEM](#)
- ▶ [Electrical Training Trust \(ETT\) NI](#)
- ▶ [Royal Society of Ulster Architects](#)
- ▶ [Health and Safety Executive Northern Ireland](#)
- ▶ [WOMEN'STEC](#)
- ▶ [Women in Business](#)
- ▶ [ICE Northern Ireland](#)

General Construction websites

- ▶ [Go Construct](#)
- ▶ [Passive House Institute](#)
- ▶ [Green Jobs – The Job Board for Green Experts](#)
- ▶ [Neon Futures](#)
- ▶ [World Skills UK](#)
- ▶ [Prospects – Property and Construction](#)
- ▶ [Federation of Master Builders](#)

Contact the Careers Service

The Department for the Economy's Careers Service provides free, professional and impartial careers advice and guidance to help you make informed choices about your future career.

For further information, or if you would like to discuss your options, please contact the [Careers Service](#).

The COIU team welcomes your feedback on the content of this bulletin to help inform future publications.

If you have any comments, please e-mail the mailbox - COIU@economy-ni.gov.uk

Please note, the above are intended to be an indicative list of websites, to facilitate further careers research. The Department is not responsible for the content of external websites. The information contained within this bulletin is correct at the time of publication; however, it may be subject to change at any time.