

Féidearthachtaí as Cuimse
Infinite Possibilities

Dublin School of Architecture

(School of Architecture, Building & Environment)

Consortium Apprenticeship for Architectural Technology?

Faculty of Engineering & Built Environment
TU Dublin, Bolton Street Campus



T
DUBLIN
OLLSCOIL TEICNEOLAÍOCHTA
BHAILE ÁTHA CLIATH
TECHNOLOGICAL
UNIVERSITY DUBLIN

TU Dublin
New Faculty
New School

Organisational Design
Engineering and the Built Environment
Architecture | Environment | Planning
(Name pending)

Disciplines

- Architectural Technology
- Architecture
- Building Performance
- Construction (including Solas craft apprenticeships)
- Environmental Management
- Spatial Planning

Existing craft apprenticeships (Construction)

- Bricklaying and Stonelaying
- Painting and Decorating
- Wood Manufacturing and Finishing



TU Dublin Linenhall



TU Dublin Bolton Street

Strategic Priority 1a

1a/iii/d

- Enhancement and roll-out of **practice-based skills provision**, including progression opportunities with FE in the region;
- Deep engagement with employers for the further development of **apprenticeship** (craft and new), earn & learn opportunities and student & graduate placements;
- Promotion and recognition of entrepreneurial endeavours; and additional, credible means of recognition of **practice-based learning and skills**;



Architectural Technology | Mission

Mission 2005

"Provide a suite of undergraduate, postgraduate and CPD courses, which meet the life long educational needs of the professional Architectural Technologist."

Validation 2009

- DT175 BSc (Hons) Architectural Technology 4 year ab-initio
- DT175A BSc (Hons) Architectural Technology 1 year progression (full time)
- DT175B BSc (Hons) Architectural Technology 1 year progression (RPL)
- *DT175C PG Cert Applied Architectural Technology*

Springboard 2011-2018

- MSc Energy Retrofit Technology
- MSc applied Building Information Modelling & Management
- MSc Building Performance (Energy Efficiency in Design)

Graduation 2022

- NFQ Level 7: Bachelor of Technology in Architectural Technology
- NFQ Level 8: BSc (Hons) Architectural Technology
- NFQ Level 9: MSc in Applied Building Information Modelling & Management
- NFQ Level 9: MSc in Building Performance (Energy Efficiency in Design)
- NFQ Level 10: Doctor of Philosophy in BIM Anthropology



Graduation May 2022
Dr Malachy Mathews with MSc aBIMM AT graduates

Demand? | Need?

Next steps?

- Part time / work based learning / earn as you learn – **Apprenticeship**
- Recognition of Prior Learning - **RPL** (*RIAI Arch Tech Entry Examination?*)

TU831 BSc (Hons) Architectural Technology

- Significant demand
- Strong new narrative
- CAO Points 400+
- Continuing high student attrition

Why?

- Leaving Certificate CAO-2002 V CAO-2022
- Societal changes Transition from second level
- New content ‘Inculcating’ work ethic
- Part time work BIM
- Energy performance metrics
- 20 hours+
- Unrelated to study
- 60 hour week?



Traineeships | Earn as you learn

Vocational Schools

| | |
|--------------|--------------------|
| Group Cert | Apprenticeships |
| Inter Cert | Apprenticeships |
| Leaving Cert | Apprenticeships |
| | Traineeships |
| | Technician courses |

Traineeship

JB Barry & Partners, Civil Engineers
 Technician Certificate, Bolton Street
 4 evenings per week

Technician courses

£30
 Architectural Technician
 Bolton Street
 Also Waterford, Cork, Limerick (Farmers)

1993

Free fees

1999

Bologna Accord – Access Transfer Progression



Work based learning | DSA models

Construction

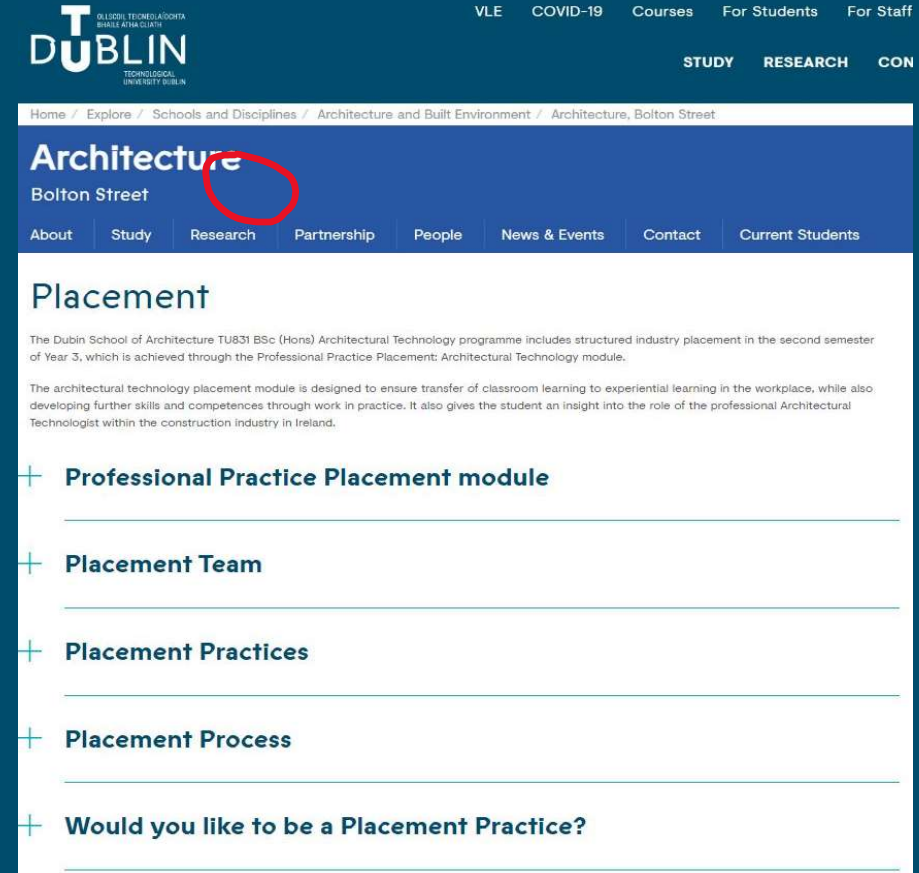
- Craft
 - Bricklaying and Stonelaying
 - Painting and Decorating
 - Wood Manufacturing and Finishing

Architecture

- B Arch
 - ARCH9008 Advanced Electives
- M Arch
 - ARCH9000 Collaborative Design Practice Studio
- 'Year out'
 - Post Year 3
 - Post Year 4

Architectural Technology

- Placement
 - TECH3200 Professional Practice Placement
- Summers
 - BIM skills



VLE COVID-19 Courses For Students For Staff
 STUDY RESEARCH CON

Home / Explore / Schools and Disciplines / Architecture and Built Environment / Architecture, Bolton Street

Architecture
 Bolton Street

About Study **Research** Partnership People News & Events Contact Current Students

Placement

The Dublin School of Architecture TU831 BSc (Hons) Architectural Technology programme includes structured industry placement in the second semester of Year 3, which is achieved through the Professional Practice Placement: Architectural Technology module.

The architectural technology placement module is designed to ensure transfer of classroom learning to experiential learning in the workplace, while also developing further skills and competences through work in practice. It also gives the student an insight into the role of the professional Architectural Technologist within the construction industry in Ireland.

- + Professional Practice Placement module
- + Placement Team
- + Placement Practices
- + Placement Process
- + Would you like to be a Placement Practice?

Architectural Technology | Apprenticeship?

Characteristics

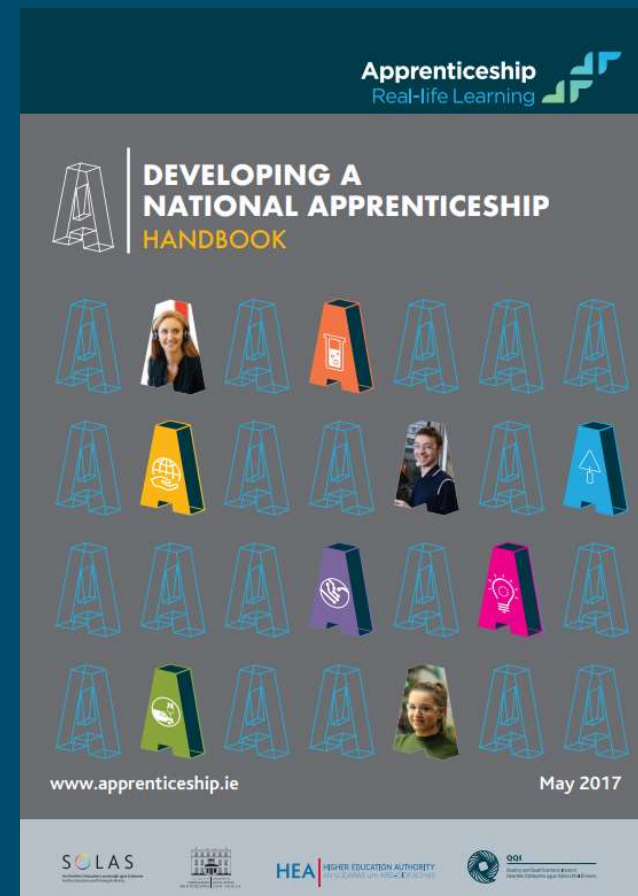
- Project based / applied learning
- Digitalised
- Modules
 - Building Technology 5 ECTS
 - Building Performance 5 ECTS
 - Building Information Modelling 5 ECTS
 - Professional Studies 5 ECTS
- Cloud based – A360 / O365 / Virtual Learning Environment
- Placement mentors
- QQI context
- CPD
- Adaptable

The screenshot shows the TU Dublin website for the Architectural Technology course. The page includes a navigation bar with links for 'STUDY', 'RESEARCH', 'CONNECT', 'EXPLORE', and 'CAO HUB'. A main image shows three students in a workshop setting. Below the image is a blue banner with the text 'Architectural Technology / Teicneolaíocht Alltíreachta'. The course details section includes a star icon, the programme title 'Bachelor of Science (Honours) in Architectural Technology', and '2021 CAO Points: 425'. A list of expandable sections includes 'Minimum Entry Requirements?', 'What is... Architectural Technology?', 'What are my career opportunities?', 'Module listing', 'What our students say', and 'Progression'. On the right side, there is an 'APPLY NOW' button and a sidebar with contact information for Cormac Allen and Aileen Mullane.

Apprenticeship | Key Features

Apprenticeships in Ireland have the following key features:

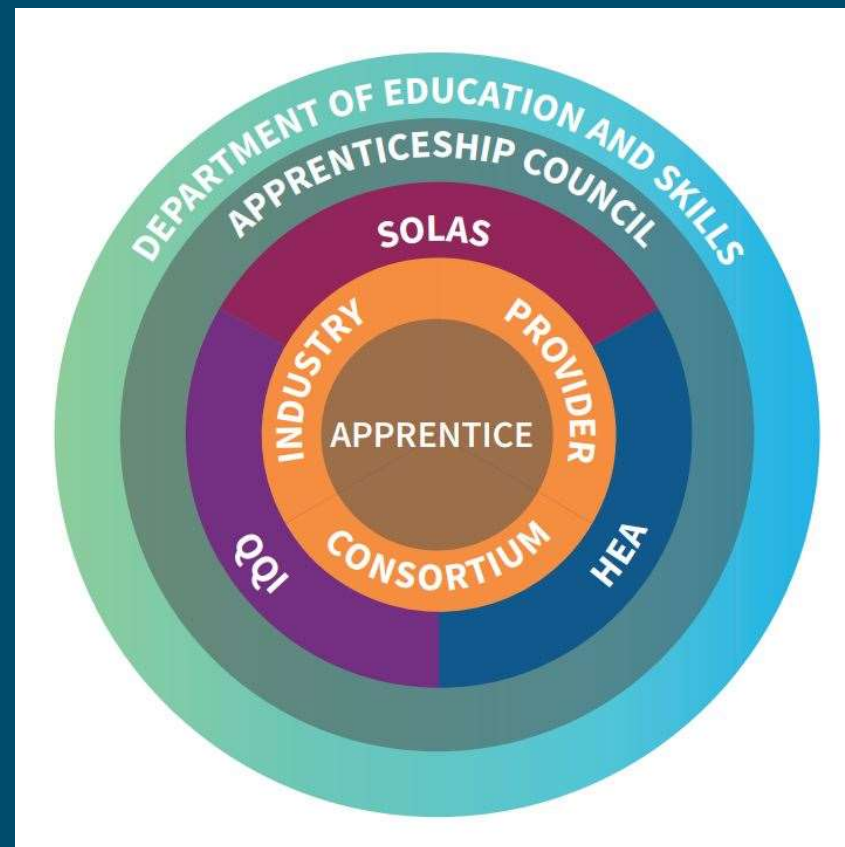
- Industry-led – consortia of industry and education partners
- Lead to an award at Levels 5 to 10 on the National Framework of Qualifications (NFQ)
- Between 2-4 years in duration n Minimum 50% on-the-job learning
- Flexible delivery – online, blended, off-the-job learning in increments/blocks
- The State funds off-the-job learning
- Apprentices are employed under a formal contract of apprenticeship
- The employer pays the apprentice for the duration of the apprenticeship



Apprenticeship | Partners & Stakeholders

Partners & Stakeholders

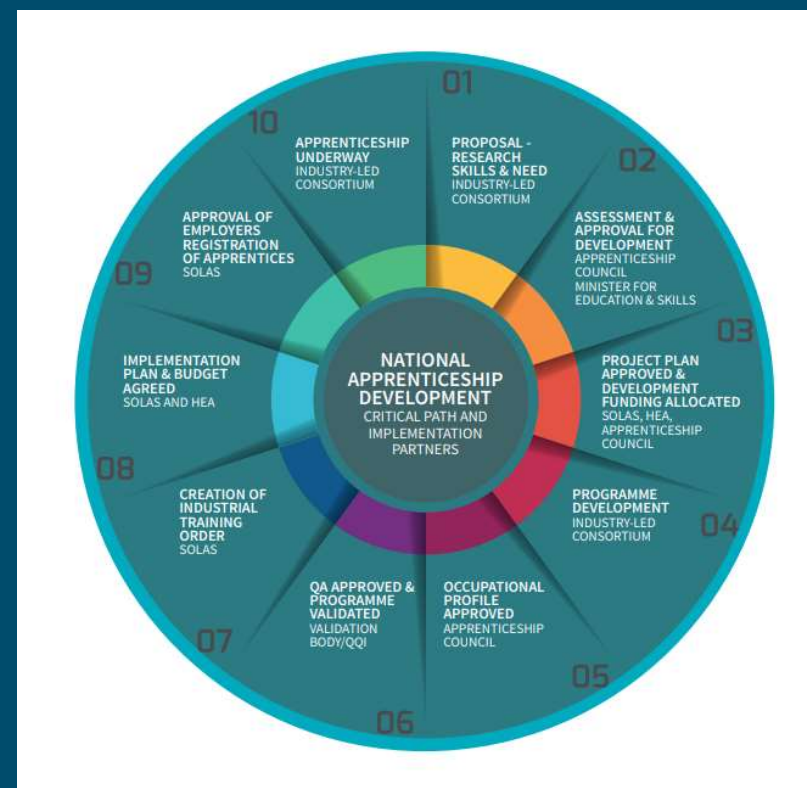
- Department of Education and Skills
- Apprenticeship Council
- Apprentice
- Industry
- Consortium
- Providers
- SOLAS
- HEA - Higher Education Authority
- QQI - Quality and Qualifications Ireland



Apprenticeship | Partners & Stakeholders

10 Steps

1. Proposal-Research and skills need
2. Assessment and approval for development
3. Project plan approved and development funding allocated
4. Programme development
5. Occupational profile approved
6. QA approved and programme validated
7. Industrial Training Order created
8. Implementation plan and budget agreed
9. Approval of employers and registration of apprentices
10. Apprenticeship underway



Architectural Technology | Timeline?



| Date | Event |
|----------------|---|
| June 2022 | • Symposium |
| Sept 2022 | • Form consortium |
| December 2022 | • Step 1 proposal |
| December 2023 | • QA Validation |
| January 2024 | • Marketing & Recruitment |
| September 2024 | • Cohort #1 commence |
| September 2025 | • Cohort #2 commence |
| September 2026 | • Cohort #3 commence |
| September 2027 | • Cohort #4 commence / Cohort #1 graduation |

Thank You
Q & A