ATU Galway City

School of Engineering

BEng in Automation and Robotics

The BEng in Automation and Robotics is an industry-led degree designed to upskill employees in the manufacturing sector. Graduates of this programme have the skills and knowledge to design and maintain automated manufacturing processes, and integrate in-house and vendor automation solutions.

To apply, please contact our Graduate Studies and Professional Development (GSPD) team who will guide you through the process by emailing **learn.galwaymayo@atu.ie**.

Course Title	Programme Code	Duration	Delivery	NFQ Level	Campus Location
Higher Certificate in Engineering in Automation and Robotics	GA_EAURG_C06	2 Years	Blended	6	ATU Galway City
Bachelor of Engineering in Automation and Robotics	GA_EAURG_B07	3 Years	Blended	7	ATU Galway City

Ollscoil Teicneolaíochta an Atlantaigh

Atlantic Technological University

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www.atu.ie

The **BEng in Automation and Robotics** is an industry-led degree designed to upskill employees in the manufacturing sector.

Graduates will develop the skills to specify, build and maintain flexible automation systems for manufacturing applications including:

- Automation
- Robotics
- Mechanical systems
- Networks
- Programming
- HMI configuration
- Vision systems
- Quality management
- Project management

What to Expect

The degree is designed to provide a mix of on-campus engineering and technology skills development and on-the-job, work-based learning for company employees.

Each year is run over three semesters. Each semester is 13 weeks duration, followed by an exam week.

Semester 1 (Sep–Dec) and **Semester 2** (Jan–May)
Synchronous online delivery on two evenings per week (17.00-20.00) and one day per week in ATU Galway City campus (09.00-18.00).

Semester 3, which takes place from May to August, is dedicated to an Industry Module. These work-based modules include certified trainings on PLC and Robotics as well as design, build and program projects.

Programme Structure

The programme is designed with flexible entry and exit points:

- Students can obtain a Level 6 Higher Certificate after two years
- Students can obtain a Level 7 degree after three years
- Graduates can progress to the Level 8 Honours degree in Automation and Digital Manufacturing.

Advanced Entry

Students may be eligible to start in Year 2 on the basis of getting recognition for prior experience.

Fees and Financial Support

The annual course fee is €6,000. This fee includes custom industry training in each year of the course.

Skillnet funding support is available to employers sending students on the course. Further information on funding support may be obtained by contacting Carine Gachon (contact details below).

Further information

For more information, please visit: www.atu.ie

Employer Commitment

From September to May students will be released as follows:

Synchronous online delivery on two evenings per week and one day per week in ATU Galway City campus (09.00-18.00).

From May to August, students will engage in an industry project and be released to attend the industry training workshops.

Student Commitment

As well as the scheduled activities online and on campus, students can expect to commit significant additional time for assignments and self-directed learning.

ATU Galway City Automation Lab

ATU has invested in state-of-the-art automation equipment including robotic cells (KUKA), PLC controllers (Allen Bradley) and advanced technologies such as Vision Systems, Cobots, AR, VR and mobile robots.

Automation Training Centre/ Thermo King

Students will have the opportunity to train in Thermo King's €1 million Automation Centre. The centre has been equipped with the latest automation system components including controllers, vision systems, safety systems, robotic arms, and the associated design and operations software. This includes technical instruction from software and hardware vendors such as Fanuc and Allen Bradley.

I want to know more. Who can I talk to?

Carine Gachon lectures on this course. She will be happy to help you. You can contact her on:
E carine.gachon@atu.ie

Or find out more at **www.atu.ie**