



POLITECNICO
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School of Industrial and Information Engineering

The training experience offered to the students of the Master's Degree in Automation and Control Engineering

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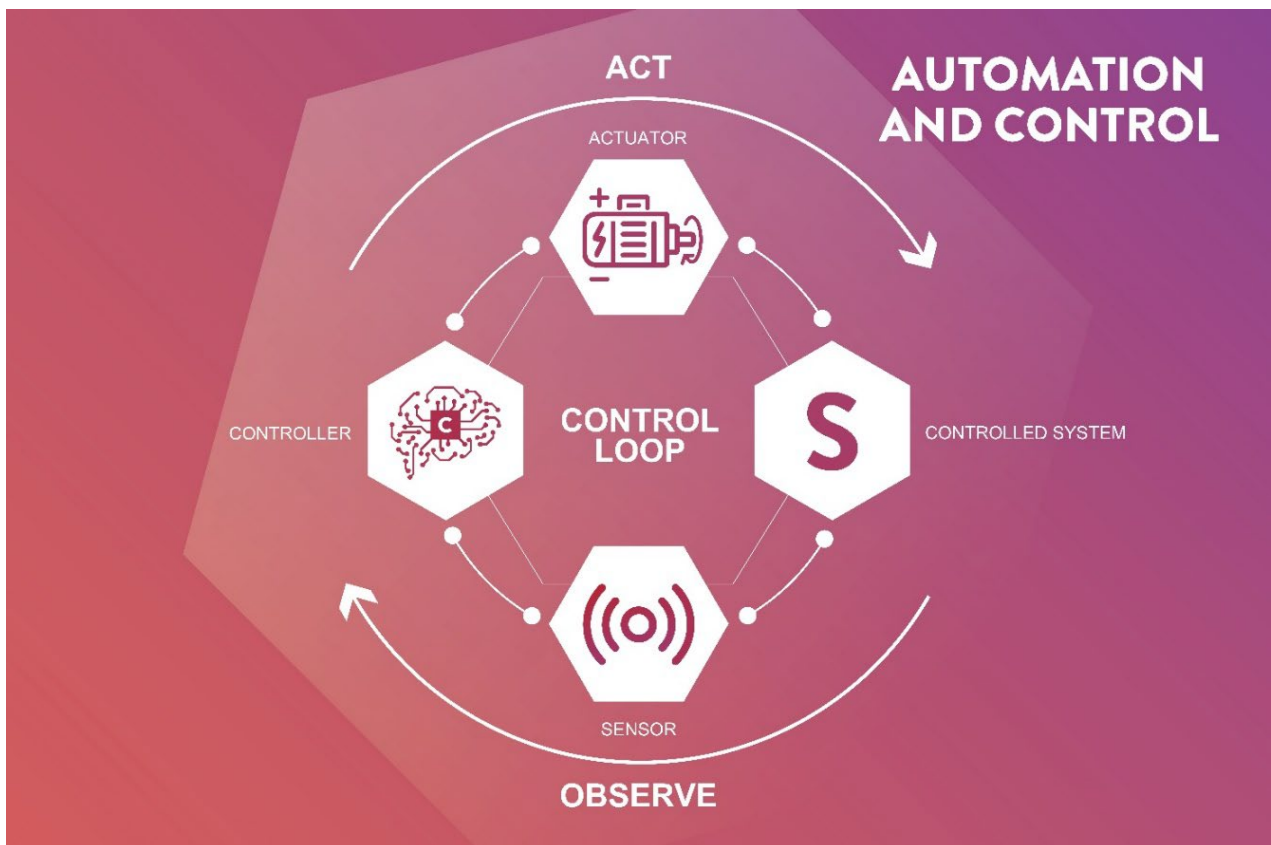
Contacts



What does an Automation and Control Engineer do?

Autonomous vehicles and drones, industrial and collaborative robots, individual machines and entire automated production systems, as well as intelligent systems for energy generation, transmission, and management, are just some of the applications where automation engineering is crucial. This field also extends to management and control systems for public utility networks, automated systems used in agriculture, industrial processes and plants, and automated biomedical devices.

Automation engineers analyze, design, and implement complex decision-making systems related to processes and products in multiple applications in the primary, secondary, and tertiary sectors. This is done to optimize their operation and make them independent of direct human intervention, or to make them easier and more efficient to manage. The systems of interest typically include sensors to collect real-time information, actuators to influence the behavior of the process of interest, and decision-making logics to determine which actions need to be implemented, based on the information collected, to ensure the process behaves as desired.





MSc graduates in Automation Engineering possess in-depth interdisciplinary knowledge and are capable of entering the workforce in positions of responsibility; they understand technological evolution and contribute to it, using the skills they have acquired to design innovative automation systems in multidisciplinary contexts and highly competitive industrial sectors; they know how to design and implement new methodologies for data analysis, automation, control, and optimization of products and processes in all sectors of the economy.

What do you study?

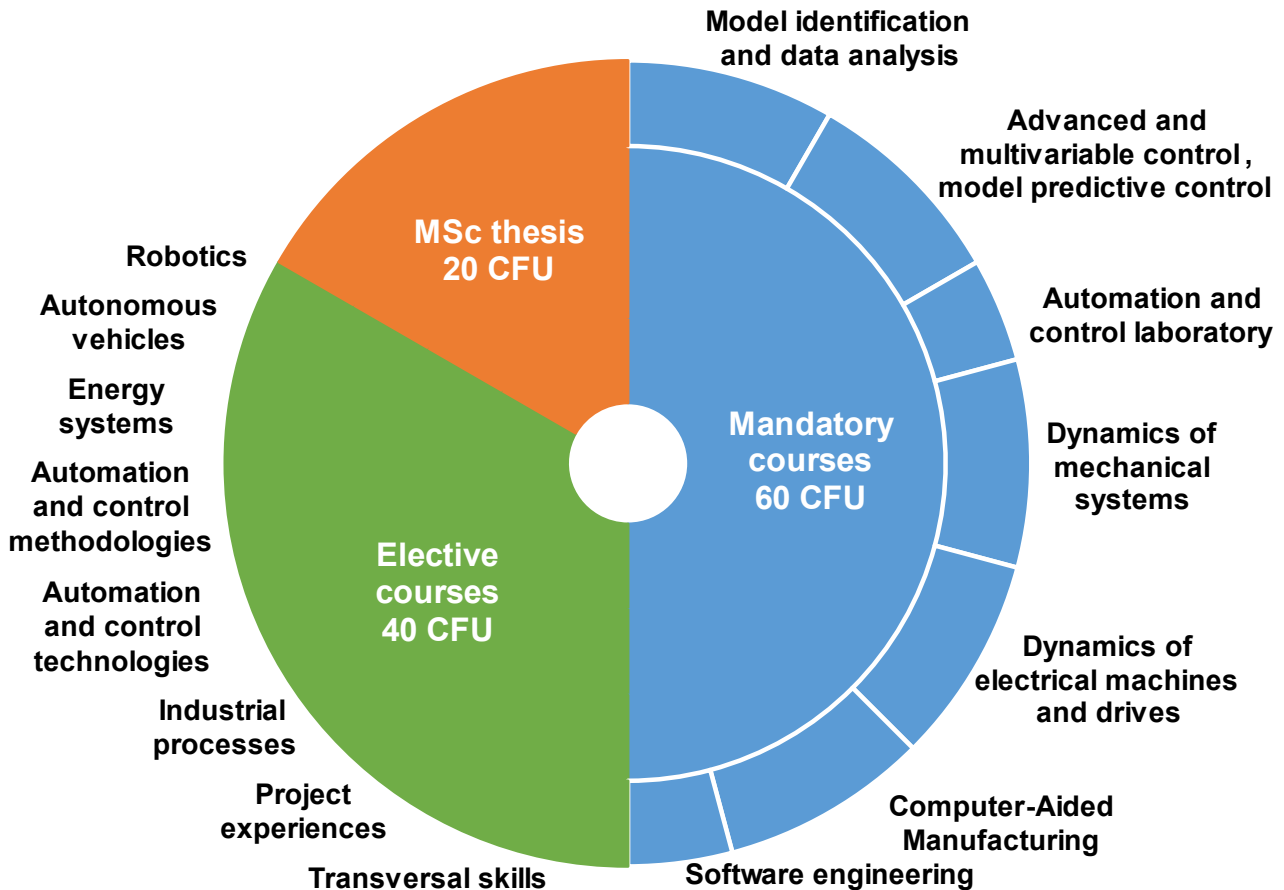
The **Degree Program** (*Manifesto degli Studi*), divided by academic years and semesters, is the set of educational activities (courses, laboratories, internships, final examinations), either compulsory or elective, that make up the educational offer of a Study Program (*Corso di Studi*).

The **Study Plan** (*Piano degli Studi*) is the list of educational activities that the student intends to undertake during each academic year. The Study Plan is normally compiled by selecting educational activities from the offer defined in the Degree Program (*Manifesto degli Studi*) of the student's own Study Program. In this case, the Study Plan is automatically approved.

Students may also request to include, for the purpose of obtaining their degree, courses/laboratories offered by Study Programs other than their own. In such cases, the request is subject to approval by a dedicated committee, which assesses its consistency with the educational objectives described in the Academic Regulations (*Regolamento*) of the Study Program.

The **Credito Formativo Universitario - CFU** (**University Educational Credit - ECTS**) is the unit of measurement of the workload required in terms of learning activities. One credit conventionally corresponds to 25 hours of work, including both self-study/individual work and assisted teaching activities, meaning all educational activities in which the student interacts with the instructor (lectures, group exercises, laboratory activities, etc.).

The study program aims to provide a thorough mastery of the analysis and design methods of complex automation systems, combined with an in-depth understanding of the issues and solutions adopted in one or more key industrial sectors. The following figure shows the distribution of credits between required courses, elective courses, and the final thesis for the Academic Year 2025-2026.



Mandatory courses totaling 60 credits are included, covering techniques for model learning from experimental data, advanced control, dynamics of mechanical systems and electrical machines, digital systems for the design and production of goods, and software engineering for automation. There is also a mandatory automation and control laboratory, described in more detail in the "What are the teaching methods?" section. Students are also given ample opportunity to customize their curriculum, taking 40 credits of elective courses within seven broad topics, listed below with some examples of the topics covered:

- Robotics: modeling and control of industrial robots, mobile robotics, multi-agent robotic systems, perception and mapping, vision;
- Vehicles and transportation systems: autonomous vehicles, vehicle control systems, modeling and control of electric and hybrid vehicles, transportation system networks;
- Energy systems: energy generation, conversion and distribution systems, smart electricity grids;
- Industrial plants and processes: modeling and management of production processes, advanced production systems;
- Automation and control methodologies: modeling and control of nonlinear systems, control from experimental data, control of networked systems, optimization for control, security for automation systems;



- Automation and control technologies: advanced measurement systems, information and communication technologies for control systems, simulation techniques and tools;
- Soft skills: high-tech entrepreneurship, lifecycle management, agile project management, patenting and intellectual property, personality, team building, leadership.

The described contents are organized in the two years of the course as follows:

First year

It includes 50 credits of mandatory courses, divided into 30 credits in the first semester and 20 credits in the second semester, plus 10 credits of elective courses in the second semester. First-semester courses are not prerequisites for second-semester courses; therefore, enrolment in the second semester is possible without any limitations or particular difficulties regarding attending the courses and passing the exams.

Second year

It includes a fully customizable first semester with 30 credits of elective courses, 10 credits of mandatory courses in the second semester, and the final thesis, which is worth 20 credits.

Finally, the Study Program in Automation Engineering participates in the Ambassador in Smart Infrastructures program, described in the dedicated information box.

Interdisciplinary Programs

▪ PoliMI Ambassador

The PoliMI Ambassador programs are four advanced university-level training paths designed to create new professional profiles in Green Technologies, Smart Infrastructures, Inclusivity Design, and Creative Thinking. The objective is to foster the acquisition of:

- skills in specific areas consistent with the selected educational path;
- enabling digital technologies relevant to the profile;
- interdisciplinary tools and methods, and a systemic vision mindset;
- the ability to work in interdisciplinary and multi-sectoral contexts, developed through exposure—also in team settings—to case studies and challenges.

For a detailed description of the objectives of each PoliMI Ambassador program, please refer to the [PoliMI Ambassador](#) webpage.

Each educational path is developed throughout the *Laurea Magistrale* (equivalent to Master of Science) and defines, within 130 *Crediti Formativi Universitari* (University Educational Credits – ECTS), of which at least 10 must be extra credits, the minimum number of credits



required to obtain the selected *Laurea Magistrale* degree and, at the same time, to receive the PoliMI Ambassador certification in the selected field.

The student must acquire at least 30 *CFU* (ECTS) in educational activities relevant to the chosen PoliMI Ambassador profile, selected from two course tables listed in the *Regolamento Didattico del Corso di Studi* (Study Program Educational Rules) of their program. In particular, the student must obtain at least 10 *CFU* from the first table (Table A) and 20 *CFU* from the second (Table B), in accordance with the procedures described in the Study Program **Educational Rules**.

The "PoliMI Ambassador" certification will be included in the Diploma Supplement and will be officially recognized through the issuance of a specific digital badge.

Failure to earn the 10 extra *CFU* (ECTS) and the minimum 30 *CFU* (ECTS) in activities related to the Ambassador profile does not preclude the student from obtaining the *Laurea Magistrale* (Master of Science) degree.



What are the teaching methods?

Teaching and learning models

The educational model of the Politecnico di Milano includes five types of assisted teaching:

- Transmissive / Lecture-Based Teaching (Didattica trasmissiva/frontale - DT): the student listens to the delivery of content that will then be consolidated independently;
- Interactive / Participatory Teaching (Didattica interattiva/partecipativa - DI): the student, under guidance, is involved individually or in groups in carrying out or participating in an activity proposed by the instructor, also through the use of suitable digital tools;
- Laboratory-Based Teaching (Didattica laboratoriale - DL): the student is involved, individually or in groups, in a practical experience aimed at applying the concepts and methodologies presented by the instructor, typically with the aid of appropriate tools and equipment in computer or experimental laboratories;
- Project-Based Teaching (Didattica progettuale - DP): the student is involved, individually or in groups, in the development of a complex project or product, which is gradually enriched as awareness and the ability to use theoretical, technical, and metacognitive tools are acquired;
- Evaluation-Based Teaching (Didattica valutativa - DV): the student is directly involved in an evaluation or self-evaluation activity followed by appropriate feedback (quantitative or qualitative, and either named or anonymous).

Almost all courses include a portion of lecture-based teaching, the amount of which varies depending on the topic and the number of students enrolled, combined with interactive, laboratory, and design-based teaching. Several elective courses include a design, interactive, or laboratory component, ranging from 20% to 50%. The mandatory course " Automation and Control Laboratory " includes exclusively interactive and laboratory teaching: students apply, in group work, the knowledge they have learned during their studies to design the control system of an experimental apparatus.

The program also includes a project-based elective course called "Project Work." It features highly innovative teaching methods, is taught in direct collaboration with a company that proposes an innovation topic, and is attended by a small number of students, divided into groups. Students interact with company staff and a university professor, who supervises the



activities and provides methodological and design guidance. The actual implementation of this course and the number of available projects vary from year to year, based on the participation of the proposing companies.

Finally, starting in the 2025/2026 academic year, two additional project-based courses will be included in the degree program: "Technology for Health and Social Challenges" and "Smart Wearables Design and Prototyping." Both courses involve multidisciplinary teamwork, involving students enrolled in different study programs. In the first, groups address case studies and challenges posed by nonprofit organizations, developing and applying technical and/or managerial skills in multidisciplinary workgroups. In the second, students conduct laboratory work to prototype a wearable electronic device.

What are the assessment methods?

Assessment methods and exam sessions

The assessment methods are described in the course syllabus (scheda dell'insegnamento) and are made available at the beginning of each academic year. By including a course in their Study Plan, students acknowledge and accept the related assessment methods.

Student performance is assessed through exam sessions held during the dedicated periods specified in the Academic Calendar (*Calendario Accademico*) and may also be evaluated through ongoing assessments (*valutazioni in itinere*) conducted during the semester in which the course is delivered.

For each academic year, there are five exam sessions scheduled for all courses. Specifically, two exam sessions take place at the end of the semester in which the course is taught, two at the end of the other semester, and one in September.

Ongoing assessment

Ongoing assessment may take place through various methods, such as written and/or oral and/or laboratory tests, projects, reports, assignments, and other types of activities assigned by the instructor, carried out either in class or independently, also through the use of digital and online tools.

Ongoing assessment based on two partial exams. For courses that include an ongoing assessment based on two partial exams, the tests are generally held during the breaks in teaching activities specifically scheduled in the Academic Calendar. The date of the second exam coincides with that of the first exam session in the session



immediately following the teaching semester. On that date, the student may take either the second partial exam or the regular *exam session*.

Other forms of ongoing assessment. Forms of ongoing assessment other than those described above may take place at any time during the teaching semester. For courses that include them, some assessed activities, clearly indicated in the course syllabus, may be mandatory or required in order to receive a full evaluation. Failure to participate in such activities may result in restrictions during the exam sessions, either in terms of grading or in the ability to take the exams.

Registration for exam sessions

In order to take part in an exam session, students must register via the Online Services within the specified deadlines. Exam registration is permitted only if the student is up to date with tuition fee payments and the course is included in his/her Study Plan. If the regular registration deadline is missed, it is still possible to register until 11:59 PM on the day of the exam, subject to approval by the professor. Students who decide not to take the exam must cancel their registration no later than the day before the exam, except in cases of unforeseeable last-minute impediments.

Most courses are assessed through a written exam, supplemented in some cases by an oral exam. Courses characterized by project-based, interactive, or laboratory-based teaching require the preparation of technical reports and public presentations of the activities undertaken. Please refer to the Degree Program for details on the assessment methods for each course.

What does the final exam consist of?

On the website of the School of Industrial and Information Engineering, under the section [Bachelor's and Master's Degree Exams](#), the following resources are available:

- The regulations for Bachelor's and Master's degree exams, along with the *Regolamenti Integrativi* (supplementary regulations) for each *Corso di Studio* (Study Program);
- Information on how the examination sessions are conducted, key deadlines, and the procedures for submitting the thesis;
- Thesis templates: formats for traditional and article-style theses, as well as the executive summary template, which must be submitted together with the thesis in case a *Controrelatore* (Examiner) is required.

The final exam involves the development of an original research and innovation project related to the program's topics and the writing of a final thesis, under the guidance of a supervisor. The thesis is worth 20 credits (CFU) and can be carried out within a research group of Politecnico di Milano and/or in collaboration with companies or external research institutions, including international ones. The activity may include modeling, simulation, design, experimentation, or method development; the student's ability to independently and critically apply the skills learned during the program is assessed. It is also possible to develop a thesis with two authors.

The final thesis is presented and defended in the final exam (Graduation session). Depending on the quality of the work, the thesis may or may not have an examiner (contro-relatore). In the former case, the evaluation of the thesis may result in an increase of up to seven points out of 110 in the final grade; in the latter case, the maximum increase is four points out of 110. For theses with an exceptional evaluation, the Graduation Committee may award an increase of eight points.



Can I get help with my studies?

Tutoring

In order to guide and support students throughout their studies, particularly during the first three years, the School of Industrial and Information Engineering offers various tutoring opportunities, with the aim of providing each student with the most suitable support for their needs. The approach includes peer-to-peer tutoring services, activated on demand based on student requests, as well as more traditional tutoring services offered on fixed dates and times.

- **Learn how to Learn (Information and guidance tutoring)**

Targeted at first-year students who scored below 60 on the TOL, this is an optional program consisting of three thematic webinars designed to help students immediately identify effective strategies for managing typical university situations, such as attending lectures, studying independently, managing study time, and handling distractions.

To complement the live component, asynchronous activities are provided to deepen the topics addressed during the webinars.

The program is delivered in September (over the course of one week), before the start of classes. Interested students receive a notification email inviting them to participate.

- **Peer to Peer Tutoring**

In this form of tutoring, experienced student tutors provide support, either individually or in small groups of 3–4 students, on the core courses taught during the first two years of all *Corsi di Laurea Triennale* (Bachelor's Laurea Programs). Students may request tutoring for up to two courses per semester.

Those who wish to request a tutor must apply through the “Peer-to-Peer Tutoring” platform available on their Online Services.

For further information, please contact: tutorato-ingegneria@polimi.it.

- **Tutoring for first-year students**

For many of the first-year courses of the *Bachelor's degree program*, tutoring sessions are available and led by PhD students or experienced instructors.

The calendars are available on the School's website at the page: [Calendario Tutorato Matricole](#) (*First-Year Tutoring Calendar*).

- **Specific tutoring activities**

The School also promotes specific tutoring initiatives:

Equalization peer-to-peer tutoring: this service is intended for students coming from Bachelor's degrees not strictly aligned with the chosen *Master's degree program*, or for



international students. More experienced student tutors provide support, either individually or in small groups of 3–4 students, on courses within the Master's *Study Programs*.

Tutoring in support of specific courses: tutoring sessions held by PhD students and experienced instructors on selected courses from various study programs, also based on student feedback.

The schedule for these activities is available on the website at: *Calendario tutorato specifico (Specific Tutoring Calendar)*.

Polimi Open Knowledge (POK)

POK (Polimi Open Knowledge) is the first Italian university MOOC (Massive Open Online Courses) platform, offering free online courses open to everyone. The main objective of the platform is to support students, not only from Politecnico di Milano, throughout their university and professional journey: from high school to university, from the *Bachelor's degree* to the *Master's degree*, and from university to the job market.

In addition, many other courses are available for teachers, researchers, professionals, and the general public.

First-year students who wish to strengthen their foundational knowledge in mathematics and physics are encouraged to follow the modules: [Introduzione alla matematica per l'università: Pre-Calculus](#), [Introduction to Experimental Physics: Electromagnetism, Optics, Modern Physics](#).

Most courses combine theoretical lectures, which cover the fundamentals of the subject, with practical exercises, which offer concrete examples of how concepts are applied and potential exam questions. Some courses also include computer labs or experiments, which allow students to better understand concepts through individual or group activities. Instructors, as well as those responsible for the exercises and labs, are always available to answer questions and clarify doubts, both during and after class, or via email and during office hours. Recordings of lectures and exercises are also provided, which students can consult to support their studies or review notes taken in class. Active participation in lectures and exercises, taking notes to maintain concentration, is recommended. WeBeep is the platform most used by instructors to provide useful teaching and exam preparation materials, including solutions to past exams. Tutoring services are also available to support students in their academic journey, as indicated in the information box.



Are there any extracurricular activities?

Passion in Action

"**Passion in Action**" is the catalogue of open-participation educational activities offered by Politecnico di Milano to its students, aimed at fostering the development of transversal skills, soft and social skills, and at encouraging/facilitating a personalized enrichment of each student's personal, cultural, and professional background.

Those who are interested can take advantage of this opportunity and choose which activities to attend, exploring different subjects according to their interests and personal inclinations.

Students who participate in *Passion in Action* may register for any activity in the catalogue, regardless of its thematic relevance to their *study plan*, provided that any specific prerequisites for individual activities are met.

The skills and competencies acquired are recognized through the awarding of a digital badge and will be reported in the *Diploma Supplement*.

The catalogue is updated regularly. Since the educational modules are activated asynchronously with respect to the semesters, interested students are advised to check the [Passion in Action](#) page periodically.

Student Associations

Student associations are organizations formed by students with the aim of promoting cultural, technical, social, and recreational activities, and creating opportunities for personal and professional growth within the academic environment.

Participating in a student association allows for greater engagement in university life, making the academic experience more dynamic and stimulating. It also fosters the development of transversal skills such as leadership and teamwork, as well as the expansion of one's network, valuable both during university and in professional life.

At Politecnico di Milano, several student associations are active, each with different goals and areas of interest. The full list is available at: [Student Associations](#).

The Study Program organizes and proposes some "Passion in Action" activities of particular relevance for Automation Engineering students, for example:

- Matlab/Simulink for control system analysis and design
- Building Automation - Fundamentals and Applications
- Student competition: control to maximize the vehicle range of electric vehicles



The Passion in Action initiatives organized by the Study Program are advertised on the Study Program WeBeep channel.

Among other extracurricular activities, we also highlight:

- Laboratory visits for various courses (measurements and instrumentation, electrical machines and drives).
- Organized participation in industry trade fairs, such as SPS Italia - Smart Production Solutions.
- Orientation events organized by the University Career Service.

Among the various student associations at Politecnico di Milano, AEA Polimi (Automation Engineering Association) stands out, bringing together approximately 480 students and enthusiasts of automation, robotics, and artificial intelligence. The association's goal is to promote activities such as projects, company visits, workshops, and lectures to allow participants to deepen and apply what they have learned during their academic career. Examples of activities and projects carried out by AEA include "SAPIENS", a prosthetic hand controlled via EMG and EEG signals; "FALCO", a self-driving drone; "GIMBAL", a stabilization system for drones; the "AEA-ACADEMY", a series of workshops to develop skills required in the field of robotics; and company visits and meetings with leading companies in the automation sector. AEA's main contacts are info@aeapolimi.it, as well as its [website](#) and Instagram [@aeapolimi](#).

Can I go and study abroad for a period?

Students who wish to take part in an exchange experience must apply through one of the two international mobility calls, which are published in November and April. The University's Mobility Call covers various types of international experiences: simple exchange (1 or 2 semesters) in EU and non-EU countries, Double Degree programs, and Special Programs for students enrolled in specific Study Programs (e.g. Alliance4Tech).

Due to procedural timelines, interested students must apply the year before the planned mobility period.

The choice of possible exchange destinations must be made at the same time as submitting the application to the mobility call. Students are therefore encouraged to gather all the necessary information about each selected destination, out of respect for all applicants.

In fact, declining an assigned destination due to inadequate research into the educational offer results in a lost opportunity, not only for the student who withdraws, but also for other students who could have taken advantage of that placement.

Once they have applied to the call, candidates must carefully follow the deadlines, monitor the rankings, and confirm or decline their interest in the assigned destination, if any. Dates vary for each call, but this phase of the process generally takes place between January and March for the first call, and between May and July for the second call.

Only after the candidate has confirmed the assigned destination, the International Mobility Unit will proceed with the official nomination of each student to the selected host institution. Delays in confirming the destination will result in exclusion from the exchange program.

To view the list of available destinations, students can refer to:

- the section of the Polimi website dedicated to the mapping of all partner universities. By filtering by School and Study Program, students can access useful information about each destination;
- the Exchange your Mind section of the Polimi website, which collects testimonials, useful information, presentations, and in-depth materials on the topic.

An international experience is valuable in its entirety, it allows students to discover new countries, cultures, people, and languages. These aspects should be taken into account when choosing a destination.

At the same time, it is important to remember that it is not always possible to obtain one of the top-listed choices; therefore, each option included in the list of preferred destinations should be selected carefully and thoughtfully.



Students who independently organize their period of study abroad are referred to as "*Free Movers*." This type of mobility is not part of any structured exchange program organized by Politecnico di Milano, such as Erasmus.

Since it is not a structured and formal program, *Free Mover* candidates must take care of all aspects of their stay abroad on their own (contact with the host university, meals, accommodation, health insurance, etc.), and no financial support is provided for expenses related to the mobility period.

The activities eligible for recognition within a *Free Mover* experience include course attendance or thesis work, with different requirements applying to the application and approval process by the Study Program/thesis supervisor.

The application for a *Free Mover* mobility may be approved by the student's *Corso di Studi* (Study Program) only if certain criteria are met. These include an evaluation of the student's CV and an assessment of the reputation of the host institution where the mobility is intended to take place. The specific criteria are detailed below:

- The host institution for the mobility cannot be one for which there are existing exchange agreements with Politecnico di Milano for the School to which the student is enrolled;
- The host institution must be recognized as a quality institution within the student's Study Program, and applicants must describe and demonstrate the validity of the proposed institution (a high ranking position in international university rankings can be one criterion, although not the only one);
- The *Free Mover* candidate must have a specific weighted average exam grade of at least 24 out of 30.

Students enrolled in a Degree Program who have already earned at least 60 University Educational Credits (ECTS) in their academic record may apply for a *Free Mover* mobility.

Similarly to the institutional mobility organized by Politecnico di Milano, *Free Mover* mobility is not permitted during the first semester of the Master's degree. However, students may submit their application during their first semester for mobility periods in subsequent semesters.

Automation Engineering students intending to undertake an international mobility experience can contact the relevant Study Programme Committee regarding the equivalence of courses and the recognition of credits earned abroad. Contact details are available on the Study Program WeBeep page, along with further information and suggestions.



Can I do an internship ?

The stage, also referred to as internship (*tirocinio*), is an educational experience in the professional world, allowing students to put into practice the skills acquired during their academic path, and to guide them toward making informed future career choices.

It can take place either in Italy or abroad, in companies, professional firms, foreign universities, or public and private research institutions.

The stage is considered as **curricular** when it is aimed at students. Specifically, it can be:

- *curriculare obbligatorio* (compulsory curricular), linked to the acquisition of University Educational Credits (ECTS) and included in the Study Plan;
- *curriculare opzionale* (elective curricular), linked to the acquisition of University Educational Credits (ECTS) and included in the Study Plan at the student's discretion;
- *curriculare facoltativo* (curricular but voluntary), not involving the acquisition of ECTS and not included in the Study Plan, with a maximum duration of 12 months, to be completed before the thesis defense.

The extracurricular stage is instead intended for recent graduates who are not enrolled in any other university Study Program, and may last up to a maximum of 6 months.

More information: *Stage per laureati* ([Internships for graduates](#)).

Students interested in a curricular stage, whether *obbligatorio*, *opzionale* or *facoltativo*, can visit the [Stage curricolari](#) (Curricular Internships) webpage for more information about:

- how to find internship opportunities (which is the responsibility of the student);
- the documents that the host organization must request from Politecnico di Milano (*Convenzione di Tirocinio* - Internship Agreement and *Progetto Formativo* - SAT - Internship Academic Structure).

Internship and Master's Degree Thesis

The optional curricular internship and the *Laurea Magistrale* (Master of Science) thesis are two separate activities. The first is optional and does not allow for the acquisition of University Educational Credits (ECTS), while the second is mandatory and involves the acquisition of credits.

It is not excluded that the activity carried out during an optional curricular internship could lead to a Master's Degree thesis. However, for this to be possible, the research activity at an external organization must be carried out under the supervision of an academic advisor from Politecnico di Milano, who must agree from the beginning of the internship on the research objectives and methodologies, and must supervise the activities throughout their execution. It is the student's responsibility to contact an academic advisor before the internship begins.



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In the Study Program in Automation Engineering, it is possible to complete an optional curricular internship, as this experience cannot be included in the study plan. The details are provided on the WeBeep page of the Study Program.

How can I express my opinion?

Students' opinions are important, and Politecnico di Milano provides several tools through which students can express their views.

OPIS Questionnaire

The *OPIS questionnaire* is the official tool used to collect students' opinions on teaching. The questionnaires are anonymous and results are processed in aggregate form.

The outcomes of these questionnaires are essential for instructors and *the* Study Programs Councils, as they offer insight into students' thoughtful and honest feedback, helping to improve both the educational offer and teaching methods. Once a year, every Study Program Council is required to reflect on its educational path, starting also from the results of these questionnaires. Student Representatives are involved in this process, collaborating in the definition of possible improvement actions.

For this reason, it is important that students express their opinions responsibly, in the interest of the entire academic community of students and faculty.

Students are asked to give their opinion on every course they attended during the semester, by answering a questionnaire that gives students the opportunity to directly contribute to the improvement of the quality of education. For each course, the questionnaire becomes available approximately two-thirds into each semester, and its completion is mandatory before registering for exam sessions for the first time.

Graduating Students' Questionnaire

During the final year of the Study Program, students are also required to give their opinion on the entire educational path. Completing the questionnaire is mandatory in order to register for the Bachelor's/Master's Degree graduation session (Graduating Students' Questionnaire). In this survey, students are asked to provide feedback on several aspects, including the organization of teaching, specific course content, facilities, internships, international mobility opportunities, and the final examination.

Student Services Satisfaction Questionnaire

This questionnaire is mandatory for registration to the first exam session of the academic year and is intended only for regular students in the final year of their Study Program. The questions concern the services offered to students, including, for example: enrolment procedures, Study Plan submission, exam registration, tuition fees, student offices, ICT, libraries, dining services, and communication.



How can I contribute?

Role of Student Representatives

Student representatives play a key role in ensuring the proper and transparent functioning of the University's governing bodies, where they participate to bring the students' perspective. They are elected every two years and serve not only as points of reference for students in various aspects of university life, but also contribute concrete proposals to improve the student experience.

The **Senato Accademico** (*Academic Senate*) is the body responsible for guiding and planning the University's development, with particular focus on teaching and research, and oversees the overall proper functioning of the institution. The Consiglio di amministrazione (Board of Directors), on the other hand, defines the long-term financial planning based on the proposals and opinions of the Senate. Therefore, the student representatives in these bodies are involved in decisions that affect the entire University.

The Joint Student-Professor Committees (Commissione paritetica) of each of the four Schools (3I – Industrial and Information Engineering; ICAT – Civil, Environmental and Territorial Engineering; AUIC – Architecture, Urban Planning and Construction Engineering; Design) monitor the educational offer, the quality of teaching and student services, and make proposals to enhance them. Depending on the School, some or all of the representatives on the Joint Student-Professor Committee also sit on the School Council, which coordinates the study programs and provides general guidance to the School.

The members of the Academic Senate, the Board of Directors, and the Joint Student-Professor Committees form the **Student Council**, a body where discussions take place on topics addressed within the various governing bodies. At the beginning of their term, they also elect the student representatives to the *Nucleo di Valutazione* (*Evaluation Committee*), the *Comitato Unico di Garanzia* (*Guarantee Committee*), and the Sports Committee.

Each **Study Program** has a certain number of student representatives (the number varies depending on the number of enrolled students). Student representatives are full members of the **Study Program Council**, the body responsible for defining the Degree Program and Educational Rules for each Study Program. In this context, student representatives contribute to defining how teaching is delivered, analyzing the effectiveness of courses, organizing the study plan, and acting as spokespersons for their fellow students by reporting any issues related to teaching.

If you want to learn more about the role of representatives, as well as the different representation lists present at the Politecnico, we invite you to visit the page [Polimi – Rappresentanti e Associazioni](#).

Work with Us as a Tutor

Politecnico di Milano offers students the opportunity to carry out tutoring activities as part of paid collaborations within the University:



- If you are a Master's degree student, you can support teaching through tutoring activities.
- If you are a Bachelor's degree student, you can take part in *Peer-to-Peer* tutoring activities, assisting fellow students along their academic path.

These collaborations are assigned through specific calls for application and are reserved for students who meet certain academic and financial requirements. Compensation and the number of working hours vary depending on the assigned role.

For more details on requirements, application procedures, and deadlines, visit the page: [Polimi - Paid Collaborations](#).

What's next?

The [Career Service](#) is the professional guidance and placement service of the Politecnico di Milano. It works in collaboration with employers (both private and public companies) and with the Study Programs Councils to offer students, starting from their early academic years, a wide range of initiatives aimed at bringing them closer to the professional world. The goal is to broaden their perspective by presenting them with future opportunities in terms of promising sectors and the most in-demand roles and skills.

Among the services offered by the Career Service:

- **Personalised support programs** with a *Career Advisor*, providing tips for preparing an effective CV, simulating job interviews, and more. [Discover more in the video resources.](#)
- **Special orientation pathways** to explore professional roles in innovation ([Am I an Innovator?](#)) across a variety of settings, from roles in established companies to positions involved in launching new start-ups.
- **Support in identifying internship opportunities**, both before and after graduation ([Internships](#)), as well as assistance in setting them up and formalising them through an *Internship Advisor*.
- **Organisation of orientation and mentoring events** with Italian and international companies (e.g. roundtables, career talks, career competitions, company tours), regularly posted on the website: [[Career Service](#)].

The study program is part of the “Classe di Laurea Magistrale” in Automation Engineering (LM-25). The “Classe di Laurea Magistrale” is important if, after completing the Study Program, you wish to take the state exam to register with Section A of the Register of Engineers and pursue a profession requiring such registration under the title of Engineer. The LM-25 program allows you to take the state exam for Engineers, Section A, for both the industrial and information sectors.

Career opportunities for automation engineers reflect the spread of scientific and technological progress that extends beyond traditional engineering fields, including medical technology, decision support systems for natural resource management, and environmental protection. The automation market, in fact, encompasses all sectors of industrial production and services, including:

- The industry that produces automatic machines, robots and, in general, mechatronic systems resulting from integrated design between mechanics and control electronics.
- Process industries, such as textiles, paper, plastics, energy conversion, chemicals, and others.



- The transport sector (land, sea, and air), both for individual means of transport and for the efficiency of complex systems such as railways, highways, or subways.
- The industry of widely used consumer goods, such as food, household appliances, games, and more.
- Companies that produce and manage energy generation, storage, and distribution systems, from both traditional and renewable sources.
- Utility networks, such as water, gas, and electricity.
- Home automation, the sector that develops buildings with highly autonomous and secure systems and services.
- The field of data management, analysis, and interpretation, as well as the creation of predictive and decision-making models for complex systems, using techniques ranging from understanding the physics of processes to artificial intelligence.
- Organizations involved in the management of resources of significant economic and social interest, such as material, natural, and human resources.

In all these fields, automation engineers are called upon to work primarily on three fronts: in the production and supply of automation systems (both hardware and software), in the management of automated systems or complex services, and in the design of advanced and technologically innovative solutions and systems.

For career opportunities, it is helpful to participate in Career Services initiatives and follow the orientation activities offered by faculty and the AEA student association. Furthermore, several professors organize seminars with professionals and alumni from the industrial sector, both as part of their classes and as extracurricular activities. Each year, the program participates in the "Lezioni in fiera" initiative, organized by SPS Italia, a leading trade fair for the automation sector. During this fair, students can visit exhibits and participate in presentations and demonstrations from participating companies.

The Study Program is also the qualification for access to PhD courses at the Politecnico di Milano or other universities in Italy or abroad, and to second level University Masters.



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Useful links

Website of the [School of Industrial and Information Engineering](#)

Website of the Study Programme: <https://www.ccsatm.polimi.it/>

WeBeeP Channel: <https://webeep.polimi.it/course/view.php?id=2580>

Student Office: [Online counter](#)

Campus and Services: [Equal Opportunities and Inclusion](#), [Psychological Well-being](#)