Université Paris-Saclay

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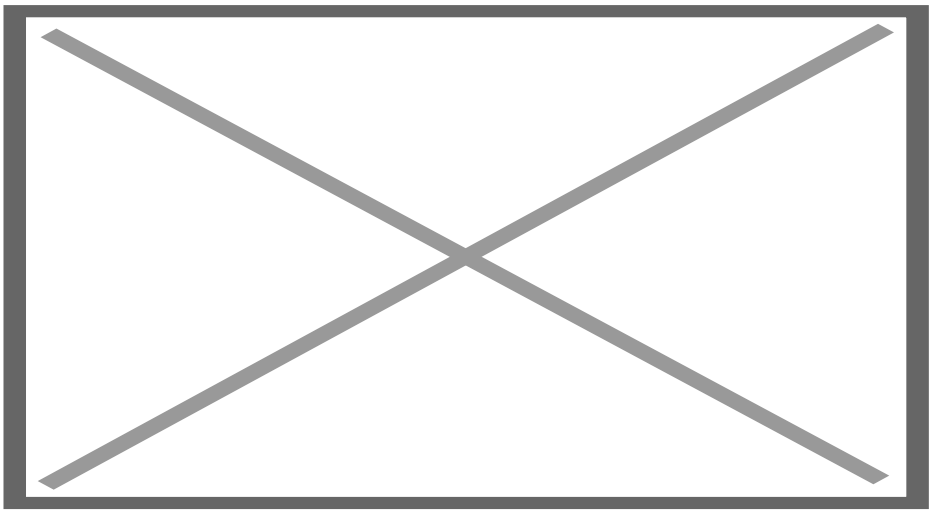
M1 E3A - Site Evry - Apprentissage

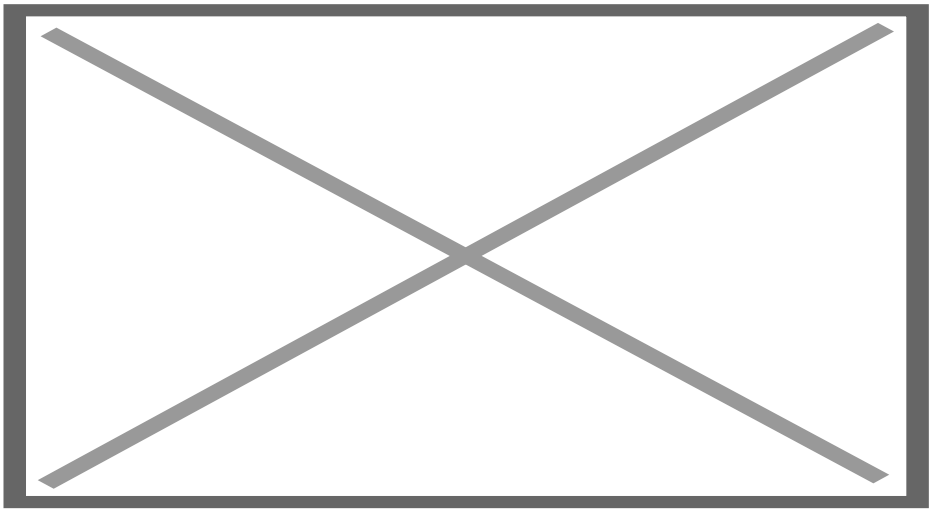
Master's degree
Specialisation Electrical Engineering
Enrolment type
Contrat de professionnalisation
Formation en apprentissage
Formation continue
Language(s) of instruction
French

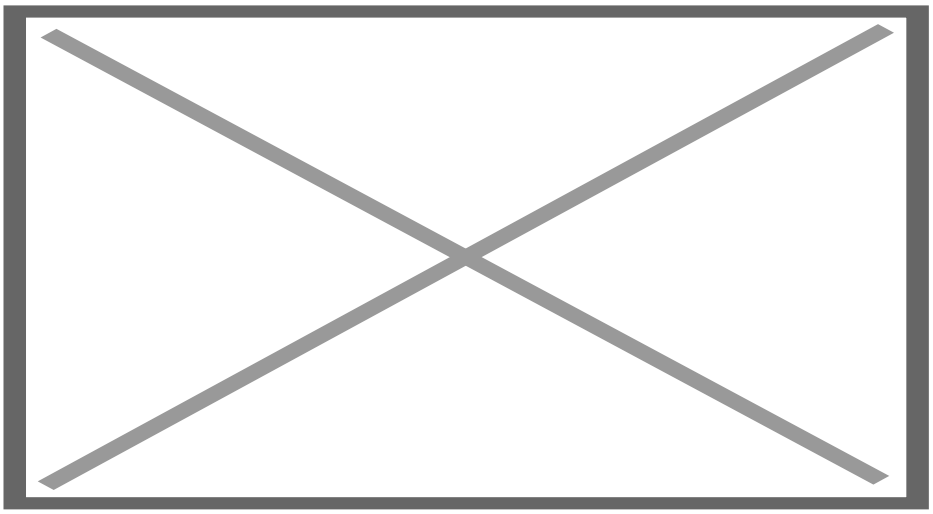
The E3A Master’s apprenticeship program is designed to stay at the forefront of the latest technological advances and to maintain close ties with leading industries and research laboratories in the field. It trains engineers capable of meeting the technological needs of today’s industry.

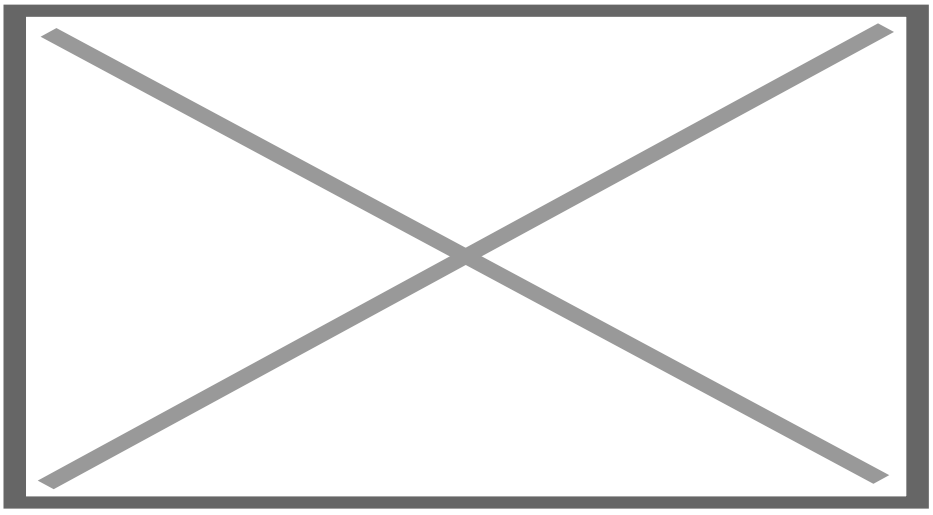
The program is based on a work-study model, combining academic courses at the UFR ST of the University of Évry Paris-Saclay with professional immersion in a company through an apprenticeship contract. This dual approach enables students to acquire both solid scientific foundations and hands-on industry experience.

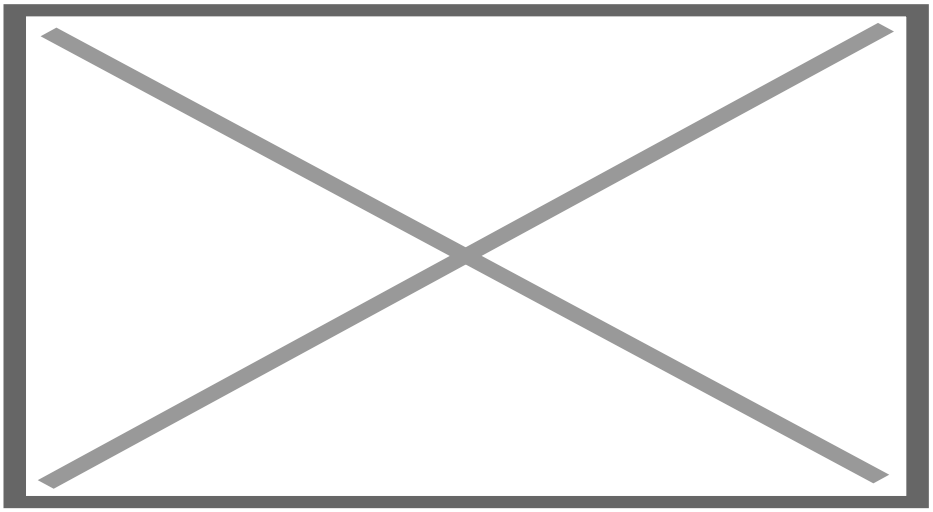
Télécharger la fiche détaillée
Apply Now











Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

The program provides students with a cross-disciplinary perspective and a strong scientific foundation in control of embedded systems, enabling them to design, implement, test, and validate innovative concepts. Graduates will acquire the following skills:

- Master the entire functional chain linking sensors and actuators, as well as the hardware and software architectures for interfacing the different elements of an intelligent system.
- Apply a system-level approach to address concrete engineering problems, directly connected to innovation-driven industries.
- Model and optimize complex systems, relying on simulation tools and rapid hardware-software prototyping.
- Master embedded architectures and interface methodologies, particularly for automotive, avionics, and aerial robotics applications.
- Design intelligent systems using standard off-the-shelf components, promoting code reuse, compliance with standards, certification requirements, and eco-responsible design practices.
- Develop analytical and observational skills, with the ability to connect theory and practice.
- Demonstrate interpersonal competencies such as active listening, teamwork, project management, and effective communication.
- Achieve proficiency in English, with a focus on scientific and technical English.

Apprentices acquire skills in intelligent systems, applied to the fields of automotive, aeronautics, and mobile robotics in a broad sense. By continuing into the M2 E3A SIAA apprenticeship program, they may become managers and engineers in the automotive and aeronautical sectors, or pursue doctoral studies in research laboratories.

Within companies and research laboratories, apprentices may be required to:

- develop and prototype new products or processes,
- conduct test campaigns and prepare maintenance and certification plans,
- integrate components into larger systems,
- lead projects focused on continuous improvement and innovation.

The targeted careers include, among others:

- R&D Engineer, Test Engineer, Systems Engineer, Validation Engineer, Quality Engineer,
- Technical Support or Design Office Manager,
- Project Manager, Study Director, Technical Sales Engineer, Business Manager, Technical Advisor.

Objectives

The aim of the M1 E3A Apprenticeship program, hosted at the Évry site, is to give students the required skills for the design and development of intelligent mobile systems, with a focus on ground vehicles, aerial systems, and aerospace robotics. The curriculum covers the entire "perception/decision/action" chain, while also addressing issues of communication, interfacing, and integration.

The courses are structured around a fundamental core, a theoretical foundation, and a specialization track. They also include an introduction to business and industry knowledge, in order to prepare students for innovation and industrial integration.

The M1 E3A Apprenticeship program provides the foundation for the Intelligent Automotive and Aeronautical Systems (SIAA) specialization.

Débouchés

Further Study Opportunities

2nd year Master’s

Calendar

Start of programme (indicative date)
02/09/2026
End of programme (indicative date)
08/09/2028
Admission

Admission Route

Computer Science

Electronics, Electrical Energy, Control
Science and Technology
Engineering Sciences

Capacity

Available Places

28

Target Audience and Entry Requirements

The program is intended for candidates who have completed part of their studies in a French higher education institution. Admission to the first year of the Master’s program (M1) is open to holders of a Bachelor’s degree (or equivalent) in the field of Engineering Sciences.

Recruitment takes place at the Bachelor’s level (Bac+3). Students under the age of 30, holding a scientific and technological Bachelor’s degree (L3), are eligible to apply.

Selection is based on the review of the academic record and, if applicable, an interview, followed by the signature of a two-year apprenticeship contract with a host company, which is a mandatory requirement for final admission.

Période(s) de candidature

Inception Platform

From 15/01/2026 to 16/03/2026

From 19/06/2026 to 25/06/2026

MonMaster Platform

From February 17th to March 16th, 2026

To find out which platform you should apply through, please see the Masters' applications and enrolment page.

Supporting documents

Compulsory supporting documents

Proof of one year's study in France for non-European candidates.

Copy diplomas.

Detailed description and hourly volume of courses taken since the beginning of the university program.

All transcripts of grades for the years/semesters validated since the BAC on the date of application.

Selection sheet completed.

Additional supporting documents

Certificate of French (compulsory for non-French speakers).

Offer of employment with an approved a work-study contract.

Supporting documents :
- Residence permit stating the country of residence of the first country
- Or receipt of request stating the country of first asylum
- Or document from the UNHCR granting refugee status
- Or receipt of refugee status request delivered in France
- Or residence permit stating the refugee status delivered in France
- Or document stating subsidiary protection in France or abroad
- Or document stating temporary protection in France or abroad.

Dossier VAPP (obligatoire pour toutes les personnes demandant une validation des acquis pour accéder à la formation) https://www.universite-paris-saclay.fr/formation/formation-continue/validation-des-acquis-de-lexperience.
Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
English	1.5	Semester 1	0	16	0			
Charger le détail								
Conduite de projets	1.5	Semestre 1	0	16	0			
Charger le détail								
Automatique moderne	5	Semestre 1	12	12	16			
Charger le détail								
Dynamique des systèmes mobiles	5	Semestre 1	12	12	16			
Charger le détail								
Architecture des systèmes embarqués	5	Semestre 1	12	12	16			

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Charger le détail								
Programmation	5	Semestre 1	10	10	12			
Charger le détail								
Traitement du signal	5	Semestre 1	12	12	16			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directe study/prac class
Bases de l'intelligence artificielle	2	Semestre 2	10	10	8			
Charger le détail								
Télécommunications pour systèmes mobiles	2	Semestre 2	10	10	8			
Charger le détail								
Instrumentation et filtrage	2	Semestre 2	12	12	16			
Charger le détail								
Connectivité industrielle et robotique	2	Semestre 2	10	10	8			
Charger le détail								
Sciences de l'ingénierie et des données	2	Semestre 2	8	10	8			
Charger le détail								
Modélisation et Commande avancée	2	Annualisé						
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dista lear cou
Soutenance	5	Semestre 2	0	0	0				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dista lear cou
Charger le détail									
Mémoire	5	Semestre 2	0	0	0				
Charger le détail									
Savoir-faire	5	Semestre 2	0	0	0				
Charger le détail									
Savoir-être	5	Semestre 2	0	0	0				
Charger le détail									

Training campus

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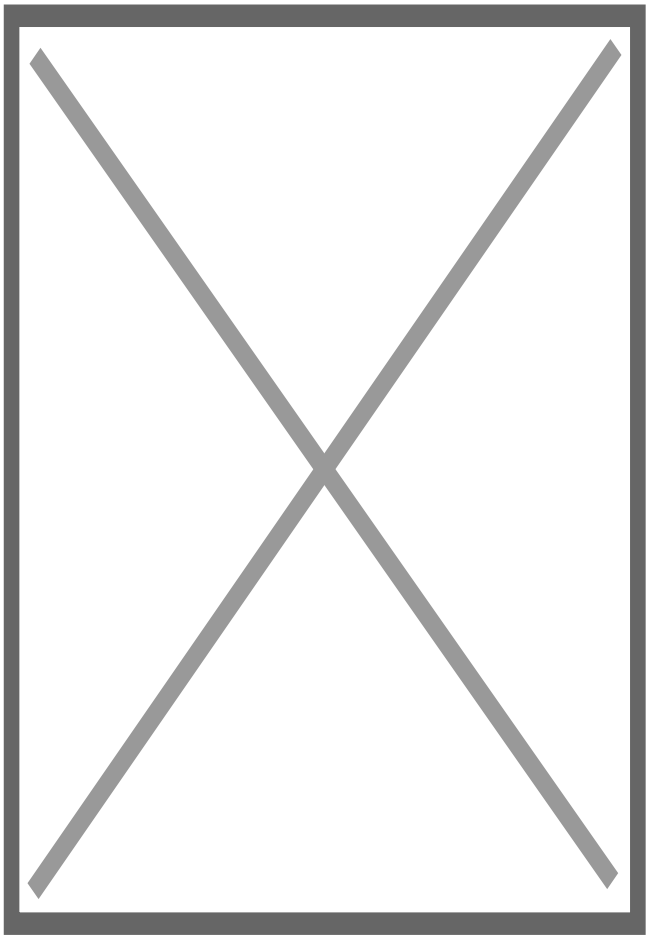

Evry

Evry
Bus 9105, 4504
RER D Evry Courcouronnes
Voir
Student restaurant (CROUS)
Library
Student residence
Sports facilities

Contact

- **Lamri NEHAOUA**

http://www.universite-paris-saclay.fr/formation/master/electronique-energie-electrique-automatique/m1-e3a-site-evry-apprentissage