Université Paris-Saclay
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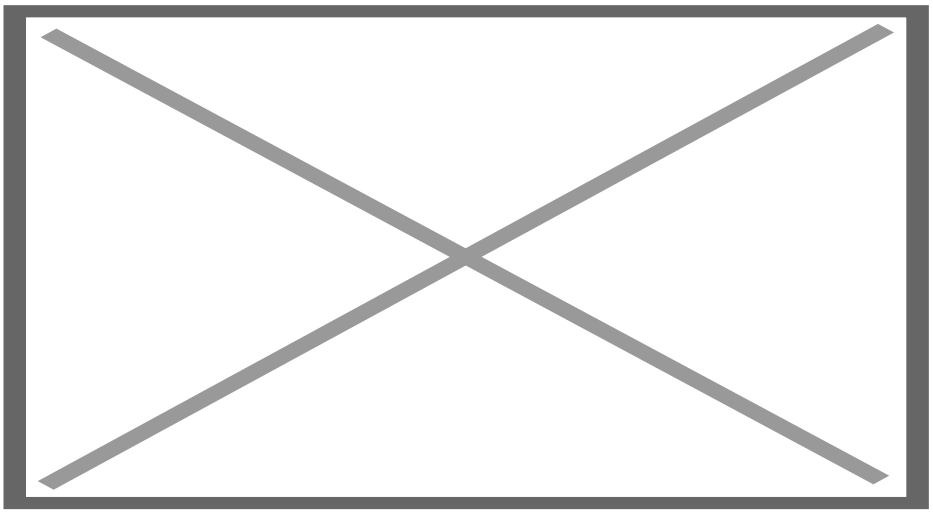
M2 Automotive and Aeronautic Intelligent Systems - Apprenticeship training

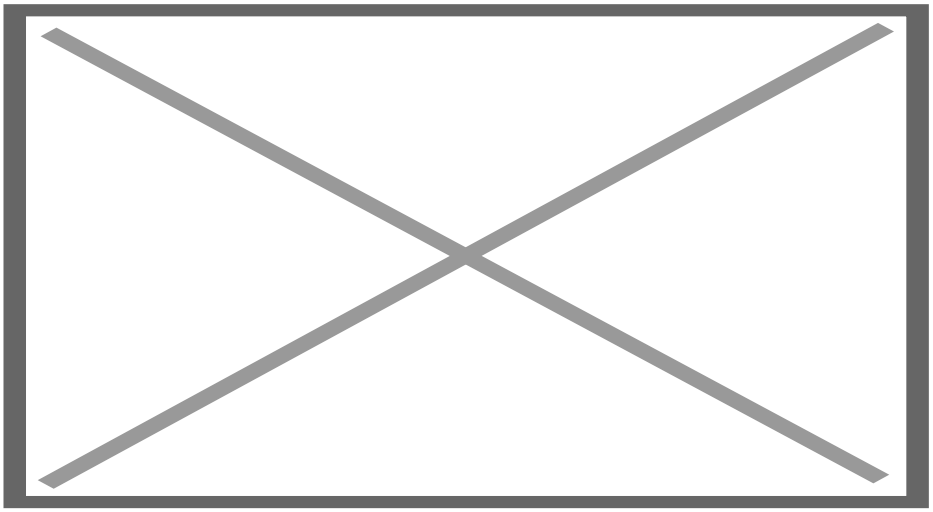
Master's degree
Specialisation Electrical Engineering
Enrolment type
Contrat de professionnalisation
Formation en apprentissage
Formation continue
Language(s) of instruction
French

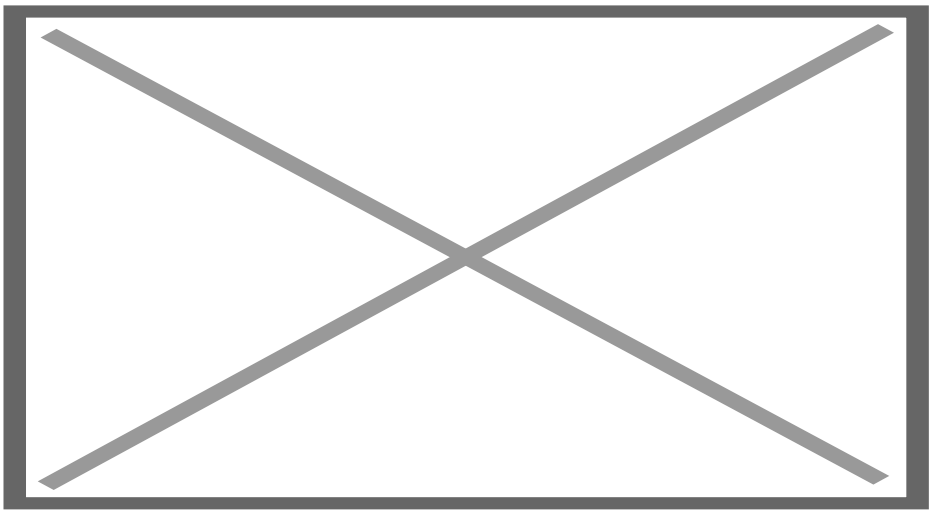
The E3A Master’s apprenticeship program is designed to stay at the forefront of the latest technological advances and to maintain close ties with leading industries and research laboratories in the field. It trains engineers capable of meeting the technological needs of today’s industry.

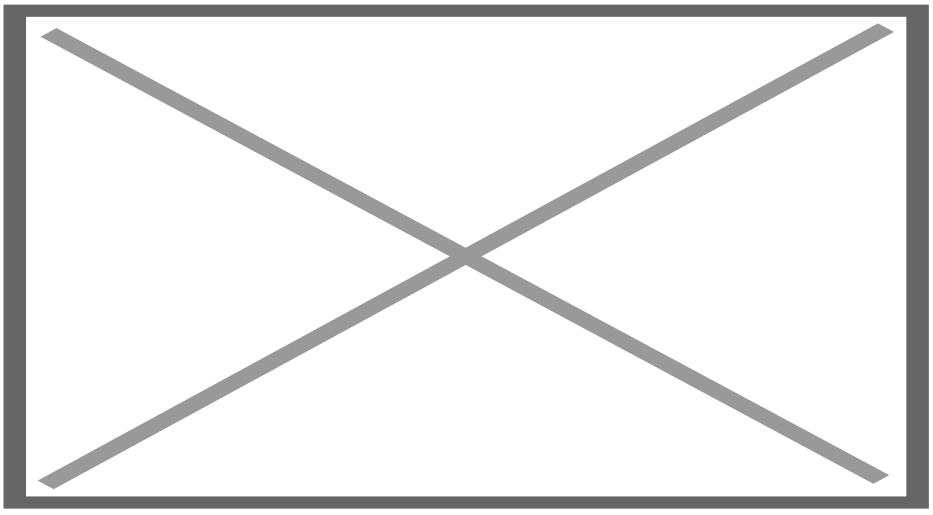
The program combines professional experience within a company with academic education provided by the UFR ST of the University of Évry Paris Saclay. The E3A Master’s apprenticeship programs at the Évry site are organized in collaboration with the CFA-EVE.

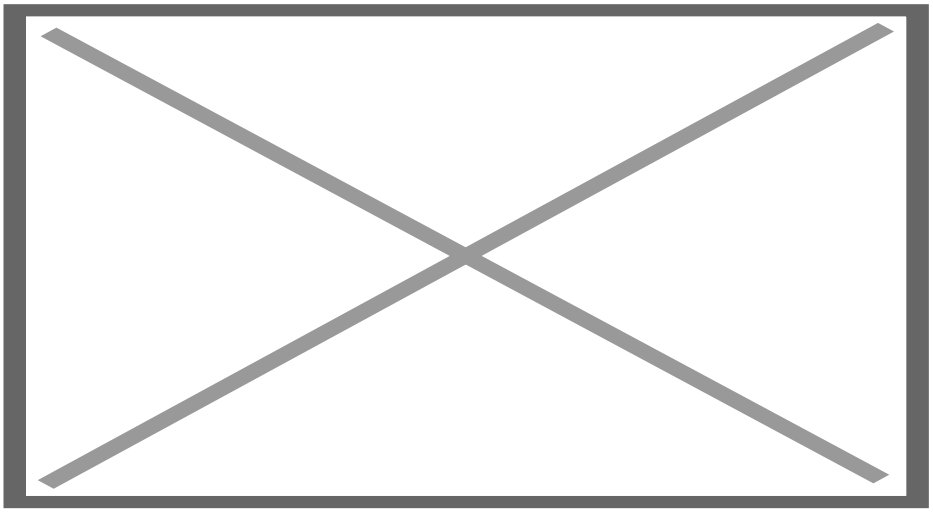
Télécharger la fiche détaillée
Apply Now











Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

The program provides students with a cross-disciplinary perspective and a solid scientific foundation in control of embedded systems, enabling them to design, test, implement, and validate advanced control methods. Graduates will be able to:

- Master the entire functional chain linking sensors, actuators, and effectors, 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 vehicles and automated systems.
- Design intelligent systems using “off-the-shelf” components, promoting code reuse, compliance with standards, consideration of certification requirements, and eco-responsible design practices.
- Develop strong analytical skills, with the ability to bridge theory and practice.
- Demonstrate interpersonal competencies such as active listening, teamwork, project management, communication, and knowledge transfer.
- Achieve proficiency in English, with a particular focus on scientific and technical English.

Objectives

The objective of the Intelligent Automotive and Aeronautical Systems (SIAA) program, offered at the Évry site, is to equip students with the skills required 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 communication, interfacing, and integration challenges.

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.

Débouchés

Career prospects

After a Master's or Master's + PhD: engineer (R&D, control, production, etc.)
After a Master's or Master's + PhD: researcher or lecturer
After a Master’s degree: Research analyst
Business Manager
Research and Innovation Manager
Project Manager
Head of mission / projects
Project manager
Head of development
Research officer
Consultant

Further Study Opportunities

PhD
Head of project/mission
Head of development
Research officer
Consultant

Calendar

Start of programme (indicative date)
07/09/2026
End of programme (indicative date)
03/09/2027
Admission

Admission Route

Electronics, Electrical Energy, Control
Science and Technology
Engineering Sciences

Capacity

Available Places

28

Target Audience and Entry Requirements

The program is primarily intended for candidates who have completed part of their studies in a French higher education institution. It is open to:

- students who have successfully completed the first year of a Master’s program,
- holders of an engineering degree or a Master’s degree (M2) obtained abroad,

in the following fields: Electrical Engineering, Computer Engineering, Control, and Robotics.

Candidates must be under 30 years old, have a scientific and technological background, and meet the admission requirements listed above. Selection is carried out by the University based on the academic record and an individual interview. Final admission is subject to the signing of a two-year apprenticeship contract or a professional training contract with a host company for the academic year.

Période(s) de candidature

Inception Platform

From 01/02/2026 to 03/07/2026

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.

Document indicating the list of local M2 choices available here : https://urlz.fr/i3Lo.

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	d l
UE libre Catalogue S1	2.5	Semestre 1							
Charger le détail									
Anglais, formation générale 3	2	Annualized	0	20	0				
Charger le détail									
Perception étendue des systèmes autonomes	2.5	Annualisé	12	10	8				
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Optimization and Applied Artificial Intelligence	2.5	Annualized	12	10	8				
Charger le détail									
Intégration des systèmes de commande	2.5	Annualisé	12	10	8				
Charger le détail									
Génie logiciel et numérique responsable *	2	Annualisé	8	10	12				
Charger le détail									
Architecture des systèmes embarqués	2.5	Annualisé	12	10	8				
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Interaction Humain - Machine et accessibilité numérique *	2	Annualisé	8	10	12			
Charger le détail								
Automatique non linéaire	2	Annualisé	12	10	8			
Charger le détail								
Communication des systèmes en interaction	2	Annualisé	12	10	8			
Charger le détail								
Architecture temps réel certifiable	2	Annualisé	8	10	12			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Réseaux véhiculaires automobiles et aéronautiques	2	Annualisé	12	10	8			
Charger le détail								
Hybridation et électrification VEH	2	Annualisé	12	10	8			
Charger le détail								
Réglementation de la maintenance aéronautique	2	Annualisé	12	10	8			
Charger le détail								

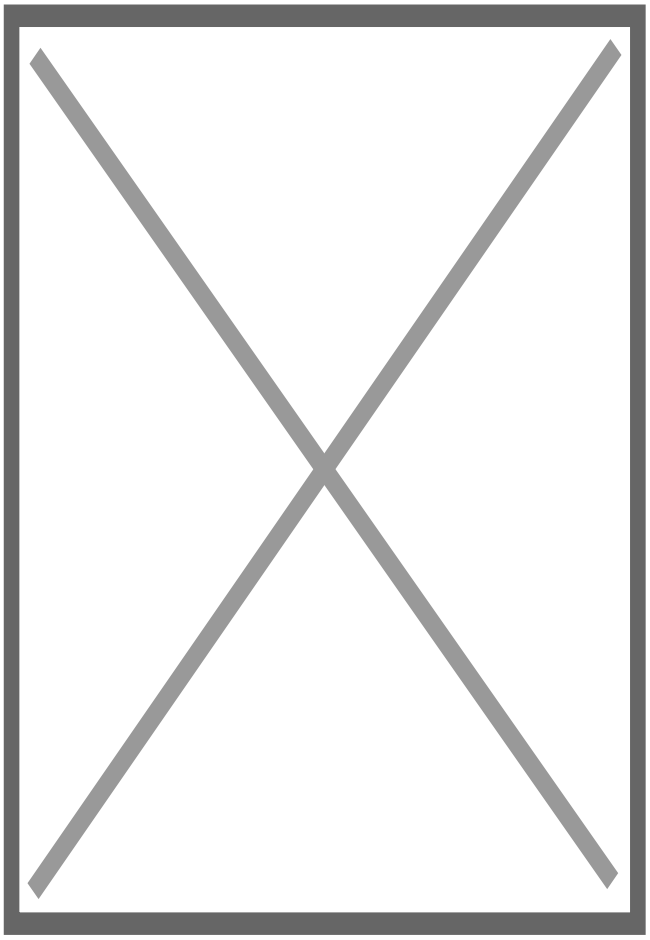
Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dist lear co
Soutenance	11	Annualisé	0	0	0				
Charger le détail									
Mémoire	11	Annualisé	2	0	0				
Charger le détail									
Savoir-faire	4	Annualisé	0	0	0				
Charger le détail									
Savoir-être	4	Annualisé	0	0	0				
Charger le détail									

Teaching Location(s)

EVRY

Training campus

Javascript est requis pour visualiser cette carte.



Evry

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

Contact

- **Najett NEJI**

  MCF

http://www.universite-paris-saclay.fr/formation/master/electronique-energie-electrique-automatique/m2-systemes-intelligents-automobiles-et-aeronautiques-apprentissage