Université Paris-Saclay
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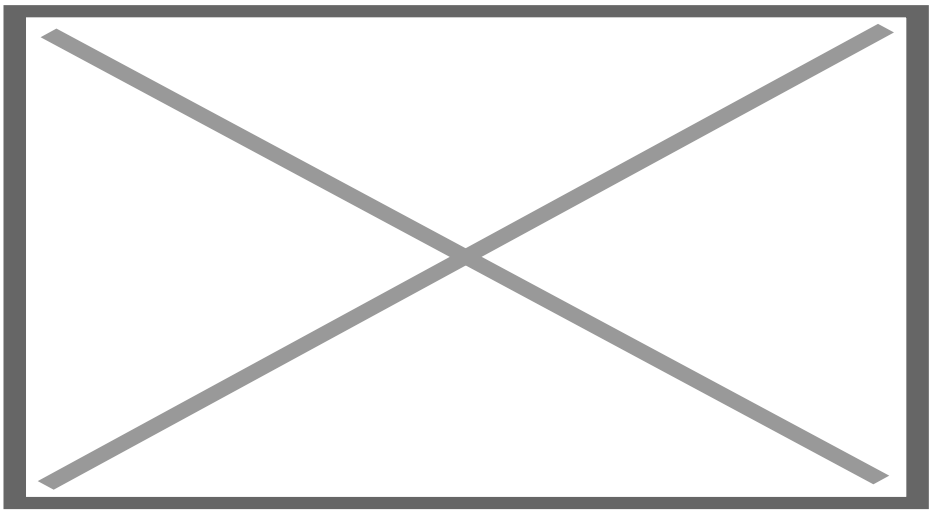
M1 Ingénierie des Systèmes Mécaniques - Formation par Apprentissage

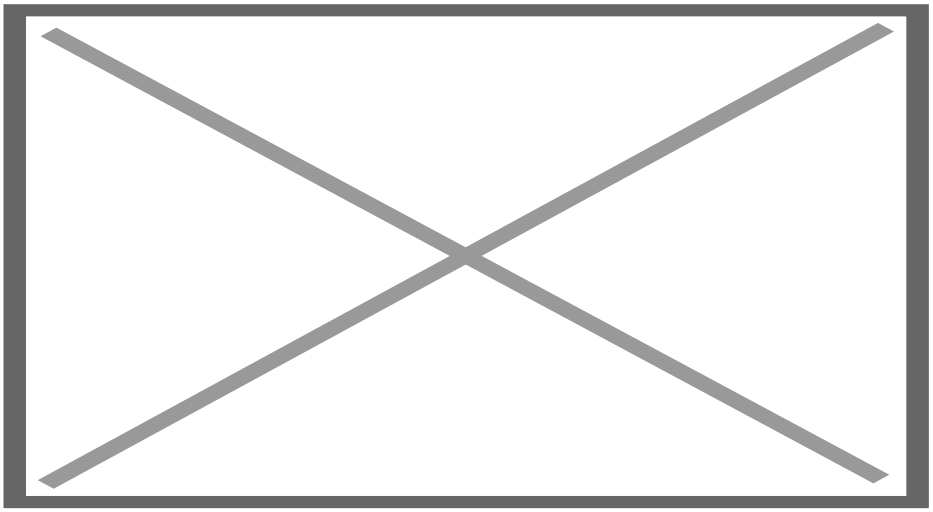
Master's degree
Specialisation Mechanics
Enrolment type
Formation en apprentissage
Formation continue
Language(s) of instruction
French

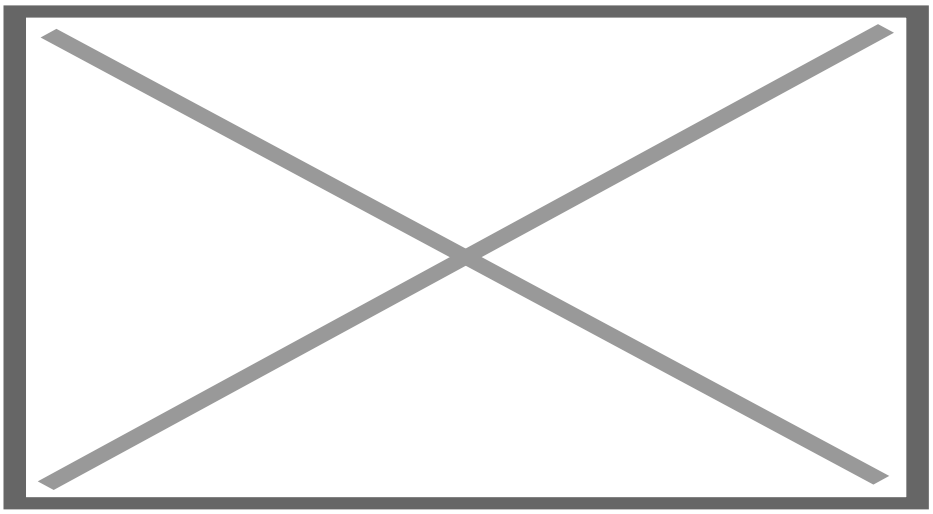
From an educational perspective, the ICMM Master's degree programme at the Evry campus, a high-level programme that keeps pace with the latest technologies and has strong links with industry and renowned research laboratories in the field, provides students with the skills they need to take on the many technological challenges facing the industry and quickly assume positions of responsibility.

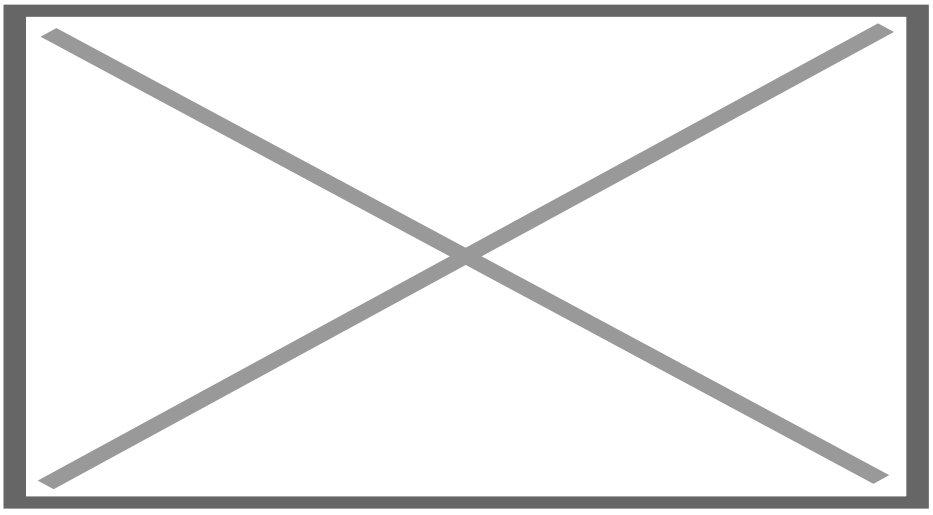
Apprentices trained at the Science and Technology Research Training Unit (UFR ST) must be operational, adaptable and have a global vision of organisations.

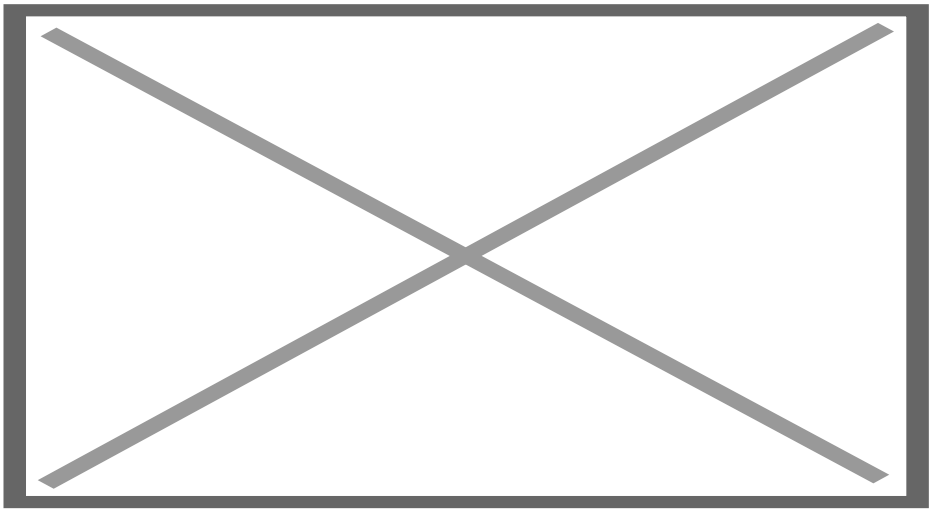
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

• Independently formulate a mechanical problem to meet a given objective, from modelling the system under study to modelling stresses and boundary conditions, proposing an associated solution approach.
• Apply theoretical or practical concepts and knowledge to understand a problem and translate it into equations.
• Implement analytical, numerical or experimental problem-solving tools at a proficient level: justified choice of existing tools or ad hoc creation of specific tools and critical analysis of results.
• Design and optimise an innovative scientific and/or technological solution with a view to development or research (this may concern a product or an experimental protocol).
• Communicate ideas clearly, concisely and pedagogically, both in writing and orally,
with scientific arguments, interpretations and discussions with a view to their promotion and exploitation by the scientific community (professional or student).
• Carry out an individual or team project in terms of organisation and interpersonal skills (coordination or management of actions, project management, perspective, teamwork, autonomy, responsibility, initiative, etc.).

Objectives

Ce parcours forme les étudiants en : conception mécanique, méthodes avancées de conception, calcul des structures (modélisation et simulation). Cette spécialisation est accompagnée d’une formation, au niveau des sous parcours, dans les domaines complémentaires de l'ingénierie en modélisation et simulation , l'ingénierie

en conception des systèmes mécaniques, l'ingénierie en design industriel.Outre les savoirs scientifiques fondamentaux, les connaissances transversales au métier d'ingénieur (communication, management, qualité, droit des entreprises…) sont également acquises. Une part de cet enseignement est réalisée par des intervenants industriels. La pédagogie laisse une large place à l'initiative individuelle au cours des projets.

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 or Master's + PhD: engineer (research and development, control, production, etc.) in the fields of health, pharmaceuticals, agri-food, biotechnologies, instruments and reagents, cosmetics, pollution control and the environment.
After a Master's or Master's + PhD: engineer (Research & Development, control, production, etc.)
R&D Engineer
design study engineer
maintenance engineer
Project officer sustainable development
Research officer in sustainable development
Development Manager
Design engineer in the industrial sector
Design engineer in the research / scientific sector
Regulatory affairs officer in the relevant fields
Research and Innovation Manager
Production Engineer
Engineering firms specialising in environmental impact assessments
Management of sustainable development
Research professions
Lecturer (after a PhD)

Head of mission / projects
Design Engineer
Research Engineer
Development Engineer
Design-Production Engineer
Scientific / public health project manager
Head of development

Further Study Opportunities

PhD
PhD thesis
Engineering, research and development
Engineering methods and industrialisation
Associate professor in the 2-year preparatory course for a competitive exam, or at a university or a scientific institute
Head of project/mission
Head of development
Research officer
PhD

Calendar

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

Admission Route

Mechanics
Engineering Sciences

Capacity

Available Places

28

Target Audience and Entry Requirements

Licence en Mécanique, en Sciences Pour l'Ingénieur, Physique (à dominante mécanique).

Période(s) de candidature

Inception Platform

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

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

Rank of previous year and size of the promotion.

Copy diplomas.

Motivation letter.

All transcripts of the years / semesters validated since the high school diploma at the date of application.

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

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

Curriculum Vitae.

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

Additional supporting documents

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

VAP file (obligatory for all persons requesting a valuation of the assets to enter the diploma).

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.

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	c
Tronc Commun de la Mention Mécanique FA									
MMC Solides Charger le détail	3	Semestre 1	14	14					
MMC Fluides Charger le détail	3	Semestre 1	14	14					
Méthodes Numériques pour les équations aux dérivées partielles Charger le détail	3	Semestre 1	12	8	8				
Socle Scientifique ISM FA									
Etude des systèmes mécaniques Charger le détail	2	Semestre 1	12	12					
Calcul des Structures par Eléments Finis Charger le détail	2	Semestre 1	8	8	8				
Outils mathématiques pour la modélisation	2	Semestre 1	12	12					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	c
Charger le détail									
Préparation des Comptes Rendus 1	1	Semestre 1		20					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
Tronc Commun ISM FA et Socle insertion professionnelle								
Conduite de projet - Communication ISM FA	3	Semestre 1	6	18				
Charger le détail								
Anglais	2	Semestre 1		20				
Charger le détail								
Qualité et Droit des entreprises ISM FA	2	Semestre 1	16	8				
Charger le détail								
Matériaux *	2	Semestre 2	16	8				
Charger le détail								
Conception des systèmes mécaniques	2	Semestre 2	8	0	16			
Charger le détail								
Vibration des Solides	2	Semestre 2	10	14				
Charger le détail								
Sous parcours "Ingénierie de la Conception des Systèmes Mécaniques" ICSM FA								
Optimisation des Structures *	2	Semestre 2	8		16			
Charger le détail								
Organisation et Gestion de la Production	2	Semestre 2	4	8	12			

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
Charger le détail Conception mécanique avancée *	2	Semestre 2	8	8	8			
Charger le détail Simulation numérique fluide - Expérimentations – Motorisation, Propulsion et composants en aéronautique	2	Semestre 2	10	16	8			
Charger le détail Préparation des Comptes Rendus	1	Semestre 2		20				
Charger le détail								

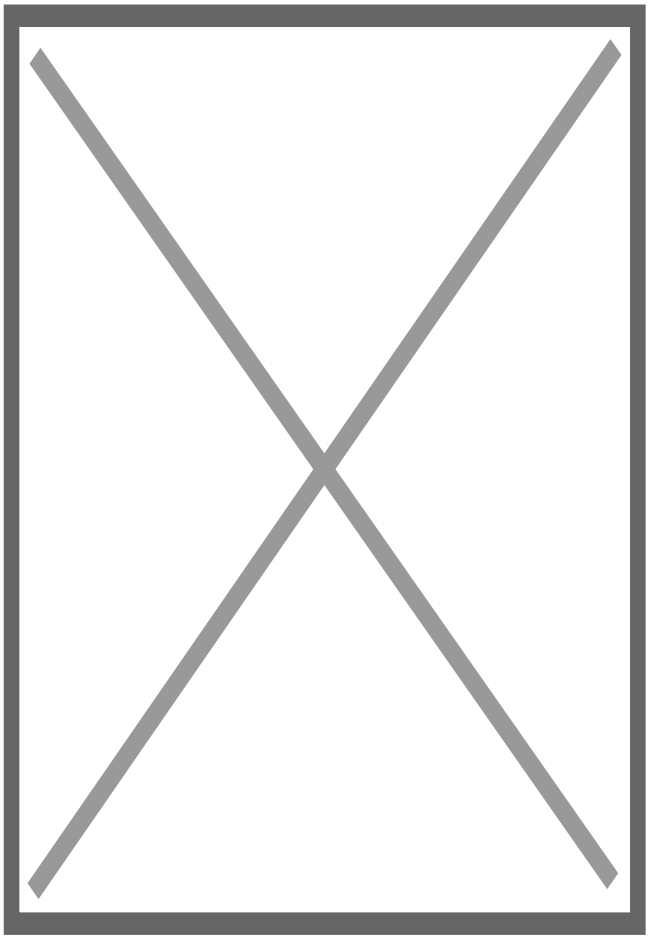
Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dista lear cou
Savoir-être M1 ISM FA	5	Semestre 2	0	0	0				
Charger le détail Savoir-faire ISM FA	5	Semestre 2	0	0	0				
Charger le détail Mémoire ISM FA	5	Semestre 2	0	0	0				
Charger le détail Soutenance ISM FA	5	Semestre 2	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

- **Vincent LORET**

http://www.universite-paris-saclay.fr/formation/master/mecanique/m1-ingenierie-des-systemes-mecaniques-formation-par-apprentissage