Université Paris-Saclay
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M2 Research and Development for Analytical Strategies

Master's degree
Specialisations Pharmaceutical Science | Chemistry
Enrolment type
Formation initiale
Formation continue
Language(s) of instruction
English
French

The M2 RDSA program trains students in the most advanced analytical methods to decipher complex systems. Supported by Paris-Saclay’s cutting-edge laboratories and platforms, it stands out through a unique focus on chemometrics, hyperspectral imaging, and the analysis of living systems, preparing graduates for both academic research (PhD) and careers in industrial R&D

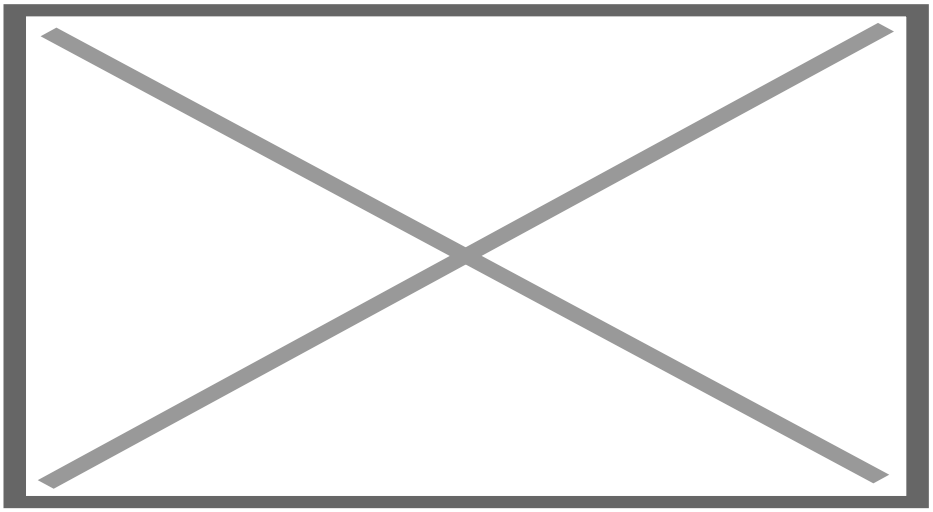
L'objectif de cette spécialité de Master est de donner aux étudiants une formation scientifique fondée sur l'apprentissage de méthodologies de la recherche expérimentale et de leur fournir en particulier les outils nécessaires à la mise en œuvre de la démarche des sciences analytiques, lorsque sont abordées l'étude de phénomènes et de milieux complexes (milieux vivants, matrices agro-alimentaires et biologiques, milieux naturels). Elle a pour finalités :

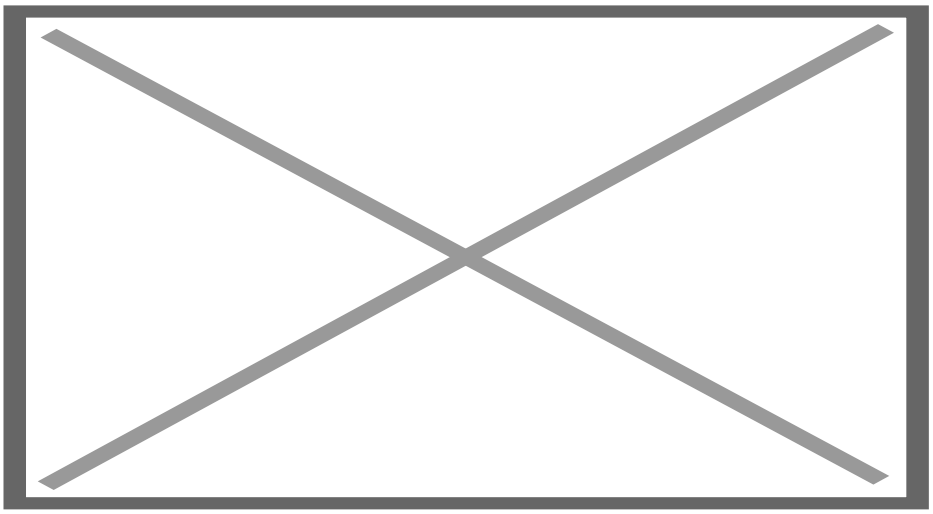
Donner aux étudiants des compétences scientifiques et stratégiques pour devenir de bons manageurs de projets de recherche

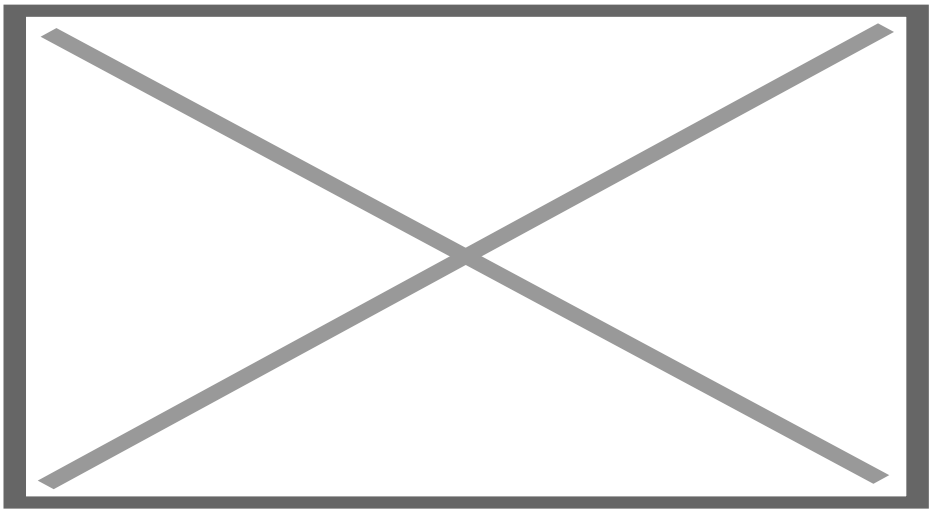
Former de potentiels candidats qualifiés pour l'obtention de bourses de thèse

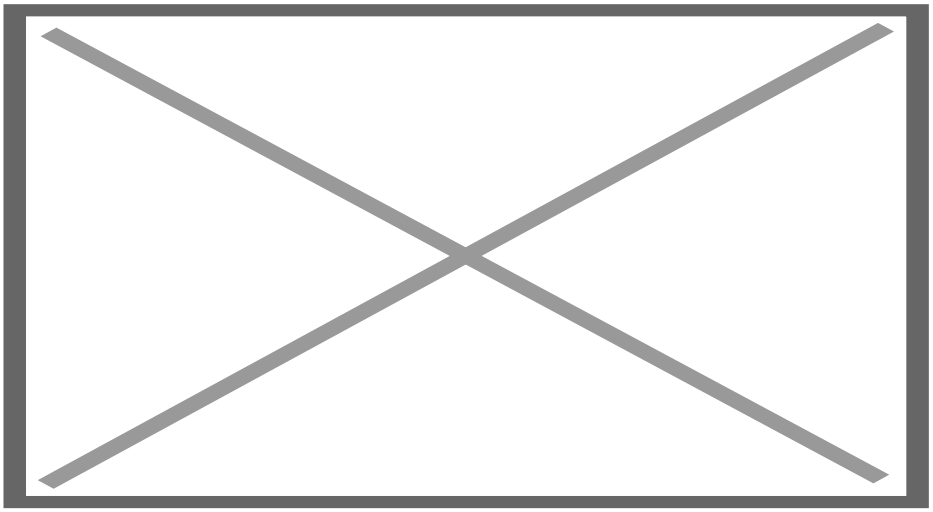
Donner une accessibilité à des services de R&D industriels

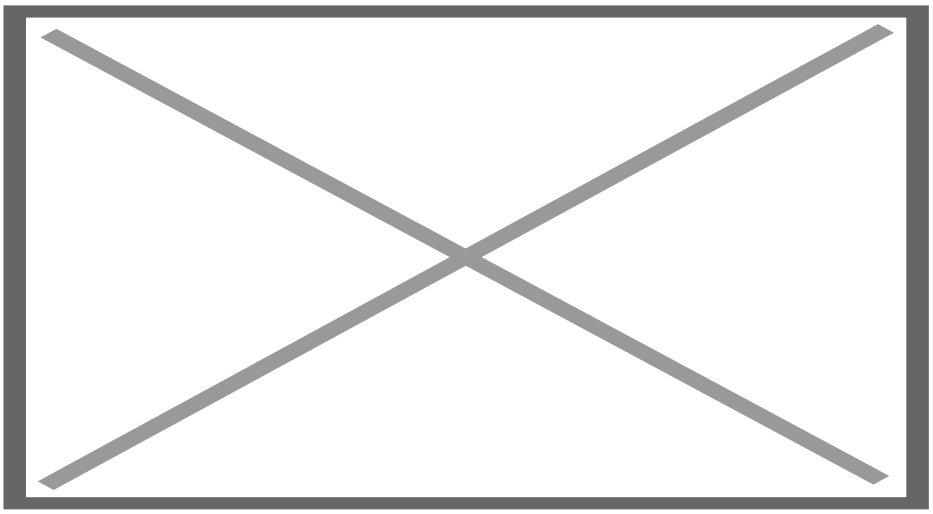
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

Master the principles of measurement, including performance, limitations, and approaches for the validation of analytical methods.

Design and carry out a scientific project, establishing specifications, a work plan, and a funding plan.

Master analytical instrumentation applied to the study of phenomena in complex matrices.

Optimize experimental design and data processing using chemometric methods.

Select and apply an appropriate data processing strategy.

Master computational tools for analytical imaging and associated data management.

Use computational tools for the prediction and processing of spectral data.

Take advantage of and integrate into the rich scientific environment of Paris-Saclay, particularly in terms of platforms and large-scale instruments.

Master written and oral presentation of scientific results.

Objectives

The objective of this Master’s program is to provide students with a solid scientific education based on the learning of experimental research methodologies, and in particular to equip them with the necessary tools to implement analytical science approaches when studying phenomena and complex systems (living organisms, agro-food and biological matrices, natural environments).

Its aims are to:

- Develop students’ scientific and strategic skills to become effective research project managers.
- Train highly qualified candidates for doctoral fellowships.
- Provide access to opportunities in industrial R&D.

This program provides students with the scientific foundation required to pursue a PhD or to join innovation, research, and development teams as executives in public or private companies in the fields of pharmacy, cosmetology, agri-food, and biology.

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: 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 + PhD: researcher or lecturer
After a Master's or Master's + PhD: engineer (Research & Development, control, production, etc.)

After a Master’s degree: Research analyst
R&D Project Manager
Project Manager
Design Engineer
Research & Development Engineer
Lecturer (after a PhD)
Development Engineer

Further Study Opportunities

Master of Pharmaceutical and Health Products Sciences
PhD in Chemistry / Biology
PhD
Data Scientist, Data Analyst, Ingénieur·e en Machine Learning dans des secteurs innovants (tech, finance, santé, énergie, etc.) ;
R&D researcher or data modelling and analysis expert in leading-edge companies or laboratories.

Admission

Capacity

Available Places

20

Target Audience and Entry Requirements

To be admitted to the RDSA M2, students must have completed a level of studies at least equivalent to:

- M1 route specialising in Analytical Chemistry, or
- Under certain conditions, 5th year of Pharmacy studies in France or a European Union country, or
- Chemical engineers graduated in France or a European Union country, or
- Under certain conditions, students admitted to the 3rd year of an engineering school
- AgroParisTech students admitted to the 2nd year can directly access the M2
- Students from countries outside the European Union must put together a file which will be examined by a VAA equivalence commission. Access to M2 is also open in continuous education; validation of M1 skills is then obtained by VAE (validation of prior experience).

Période(s) de candidature

Inception Platform

From 13/04/2026 to 08/06/2026

Supporting documents

Compulsory supporting documents

Copy of identity document.

Motivation letter.

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

Curriculum Vitae.

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

Additional supporting documents

Certificate of English level (compulsory for non-English speakers).

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

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
Stratégies analytiques	6	Semestre 1	48					

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Plateforme analytique (RMN, spectroscopies, spectrométrie de masse)	6	Semestre 1	36	6	9			
Charger le détail								
Mélanges et matrices complexes : problématique, méthodes et instruments	6	Semestre 1	48					
Charger le détail								
Outils chimiométriques pour la mise en place d'un projet expérimental et pour le traitement des données	6	Semestre 1	33	15				
Charger le détail								
Imagerie et analyse directe du vivant	6	Semestre 1	48					
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dis lea co
UE obligatoire									
Management de projets	4	Semestre 2	16	16					
Charger le détail									
UE optionnelle									
UE libre Catalogue S1	2.5	Semestre 1							
Charger le détail									
UE libre catalogue S1 et S2	2.5	Semestre 2							

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dis lea co

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learni cour
Stage de recherche	24	Semestre 2							

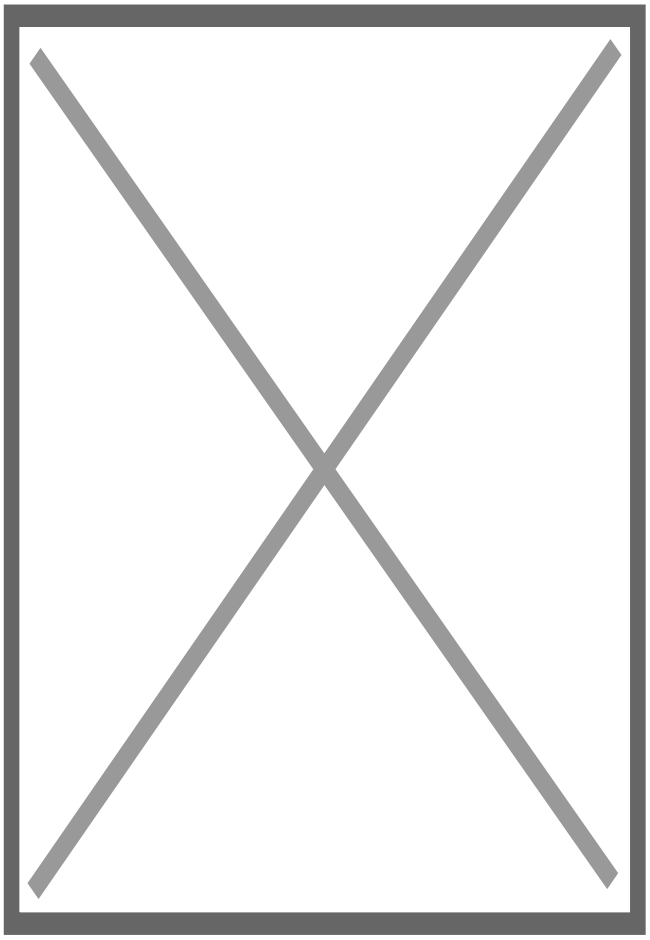
Charger le détail

Teaching Location(s)

ORSAY

Training campus

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Orsay Bures

Orsay / Bures-sur-Yvette
Bus 4607, 4626
RER B Orsay ville ou Bures-sur-Yvette
Voir
Library
Community center

Contact

- **Luc EVELEIGH**
- **Ali TFAYLI**

http://www.universite-paris-saclay.fr/formation/master/sciences-du-medicament-et-des-produits-de-sante/m2-recherche-et-developpement-en-strategies-analytiques