Université Paris-Saclay

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M2 Toxicologie Humaine, Evaluation des Risques et Vigilance (THERV)

Master's degree

Specialisation Pharmaceutical Science

Enrolment type

Formation initiale

Contrat de professionnalisation

Formation continue

Language(s) of instruction

English

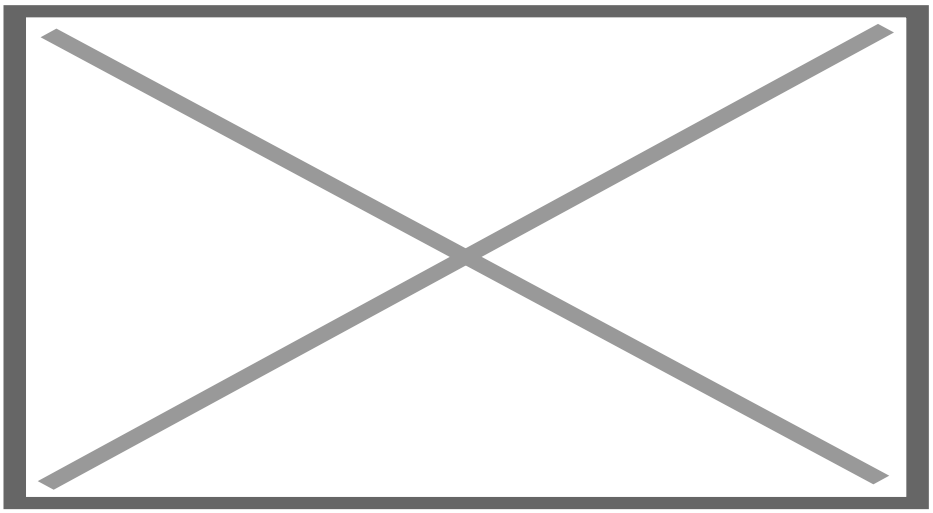
French

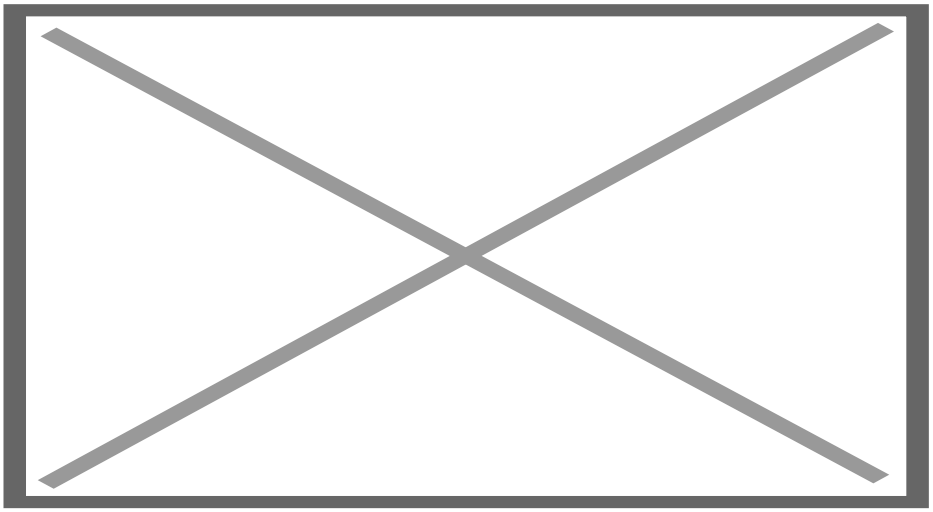
Multidisciplinary in nature, toxicology is a rare cross-disciplinary field that combines medicine, biology, chemistry, and environmental sciences. The diversity of the teaching units available to candidates during the M2THERV program provides them with excellent training as general toxicologists or more specialized toxicologists in regulatory toxicology.

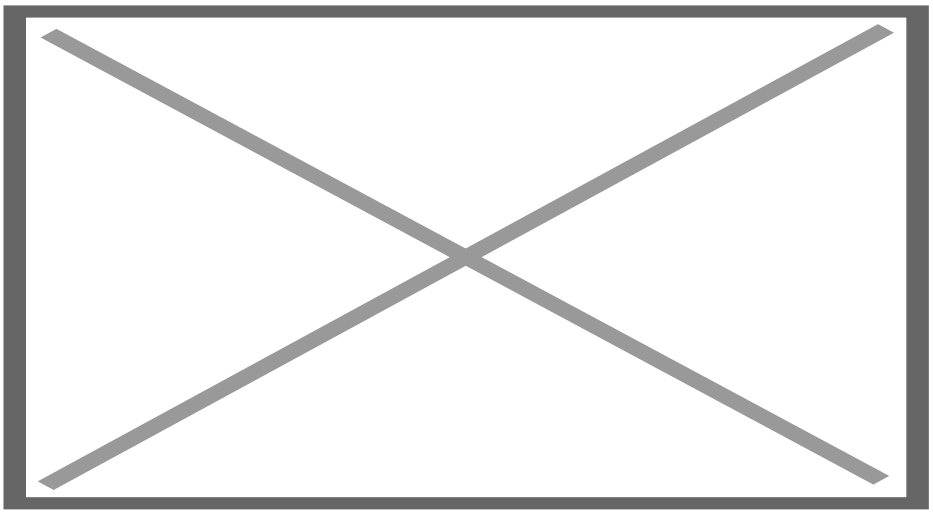
A 3-week core program followed by one teaching unit per month

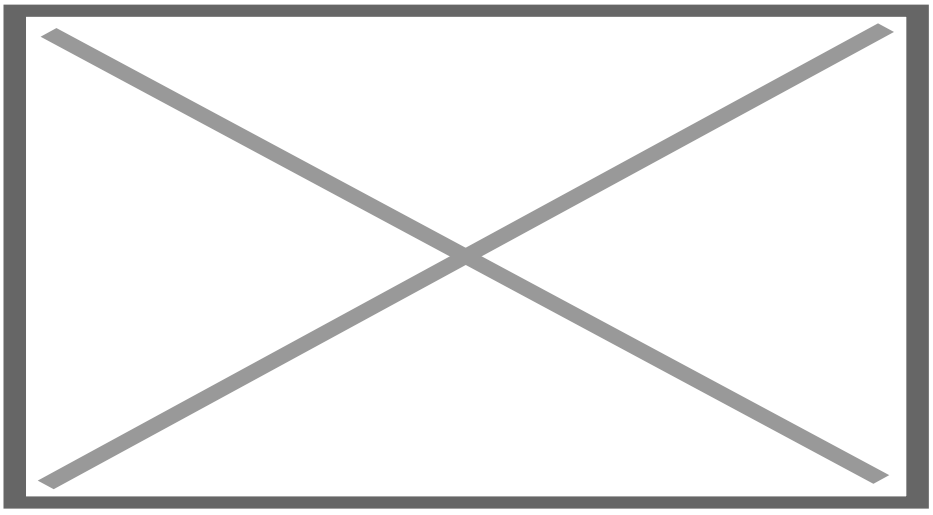
Télécharger la fiche détaillée

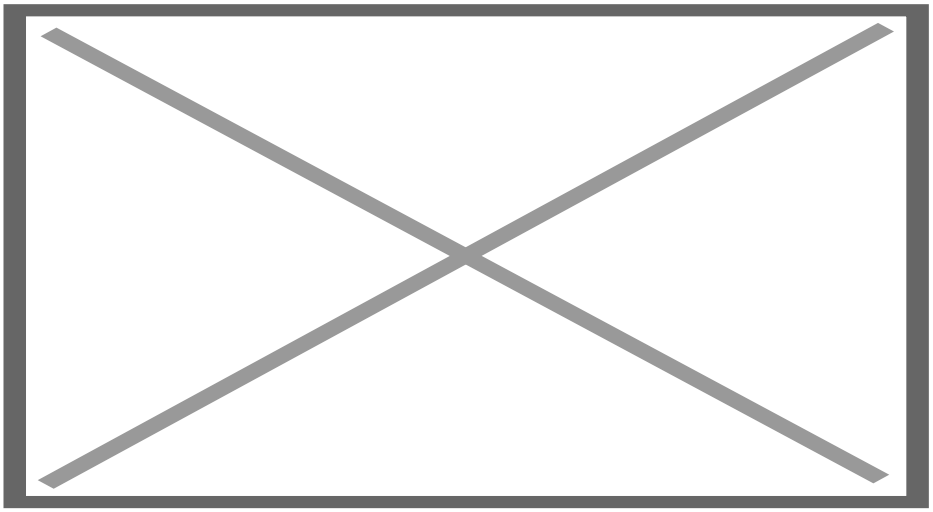
Apply Now











Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

1. Establish the relationship between identifying the hazards associated with a product and the risks associated with its use.

2. Use scientific reasoning and experimental methods (toxicity assessment models) in the field of toxicology.

3. Communicate and argue the results of your research in writing and orally in both French and English.

4. Critically analyze scientific articles and regulatory reports in order to find relevant information.

5. Understand the essential elements of regulatory toxicology for health products and know how to self-train in this field.

6. Apply essential knowledge in health product vigilance, including regulatory aspects.

Objectives

Graduates with a master's degree in Toxicology are legally authorized to perform risk assessment functions in both the pharmaceutical and cosmetics industries. Consequently, they must have all the knowledge required in the field of toxicity mechanisms, toxicity assessment methods, and related regulations necessary to perform this function.

Débouchés

Career prospects

Evaluateur de la sécurité d’emploi des produits dans le secteur industriel (santé, chimie, agrochimie, cosmétique, CRO) : directeur d’études CRO, toxicologue réglementaire
Métiers de l’évaluation du secteur public (ANSM, ANSES), Institut de veille sanitaire : évaluateur toxicologue (médicaments, biocides, cosmétiques, pesticides), chef de projet normes (VLP, VTR), directeur d'étude de toxicologie
Chargé de pharmacovigilance, chargé de cosmétovigilance, chargé de matériovigilance
Métiers dans la recherche académique ou privée (chercheur, enseignant-chercheur, ingénieur de recherche, chef de projet R&D, carrières hospitalo-universitaires) après une poursuite en doctorat

Calendar

Start of programme (indicative date)
04/09/2026
End of programme (indicative date)
09/07/2027
Admission

Capacity

Available Places

25

Target Audience and Entry Requirements

- Students who have completed a Master's 1 degree in SMPS or a related field (Biology, Biology-Health) at a university offering education comparable to that of Paris-Saclay University, in France or in European Union countries, after validation of specific prerequisite knowledge by the Master's 2 program director;

- Students who have studied health sciences (pharmacy, medicine, dentistry, veterinary medicine) in the European Union (and universities with agreements), having completed the fifth year of study or an equivalent to an M1 degree;

- Students with an engineering degree equivalent to an M1 degree;

- Be under 30 years of age to be eligible for an apprenticeship contract.

- Initial knowledge of toxicology, an academic level in the field and related fields (depending on the candidates' profile: biology, pharmacology, public health, etc.) and experience in the field of toxicology (research internships, in industry, in agencies) are required.

Période(s) de candidature

Inception Platform

From 02/02/2026 to 15/05/2026

Supporting documents

Compulsory supporting documents

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.

describe in detail the Toxicology and Biology courses, with particular emphasis on the optional courses followed

Additional supporting documents

Pharmacy or engineer transcripts.

Certificate of English level.

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

Level B2 required

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

Recommendation letters.

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
V2 - Toxicologie Réglementaire 1 : définitions, principes et organisations Charger le détail	3	Semestre 1	20	5				
V3 - Toxicologie Réglementaire 2 : expérimentation et tests Charger le détail	3	Semestre 1	20	5				
V14 - Discussion avec jury sur projet et article Charger le détail	3	Semestre 1						
V13 - Présentation projet et article Charger le détail	3	Semestre 1						
M1 - Mécanisme d'action des toxiques Charger le détail	3	Semestre 1	22	3				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
V7 - Toxicologie cellulaire	3	Semestre 1	18	7				
Charger le détail								
M2 - Pathologies non tumorales	3	Semestre 1	19	6				
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practi class
V2 - Toxicologie Réglementaire 1 : définitions, principes et organisations	3	Semestre 1	20	5				
Charger le détail								
V3 - Toxicologie Réglementaire 2 : expérimentation et tests	3	Semestre 1	20	5				
Charger le détail								
V1 - Toxicologie d'organes	3	Semestre 1	17	8				
Charger le détail								
V9 - Anatomo-Pathologie	3	Semestre 1	16					
Charger le détail								
V8 - Analyse de cas	3	Semestre 1	0	25				
Charger le détail								
V6 - Toxicologie Analytique	3	Semestre 1	16	6				
Charger le détail								
V5 - Immunotoxicologie	3	Semestre 1	18	7				
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practi class
V12 - Ingénierie tissulaire et toxicologie prédictive : Application aux dispositifs médicaux et cosmétiques	3	Semestre 1						
Charger le détail								
V11 - Métabolisme et tranports des xénobiotiques	3	Semestre 1	16	6				
Charger le détail								
V10 - Toxicologie Clinique	3	Semestre 1	25	0				
Charger le détail								
S7 - Toxicologie réglementaire des produits chimiques	3	Semestre 1	30					
Charger le détail								
S6 - Ecotoxicologie	3	Semestre 1	30					
Charger le détail								
S8 - Toxicologie de la reproduction	3	Semestre 1	30					
Charger le détail								
V4 - Toxicologie Réglementaire 3 : les vigilances	3	Semestre 1	20					
Charger le détail								
S9 - Toxicologie des aliments	3	Semestre 1	30					
Charger le détail								
M3 - Cancérogénèse et pathologies tumorales	3	Semestre 1	19	6				
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practi class
UE libre S2	3	Semestre 2						

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distanc learni cours
Stage	30	Semestre 2							

Charger le détail

Teaching Location(s)

ORSAY
PARIS 06

Contact

- **Saadia KERDINE-RÖMER**

  PR

http://www.universite-paris-saclay.fr/formation/master/sciences-du-medicament-et-des-produits-de-sante/m2-toxicologie-humaine-evaluation-des-risques-et-vigilance-therv