

## Graduate Program

Materials for the future and  
Management of the  
Enterprise Risks  
[www.u-pec.fr](http://www.u-pec.fr)

## RECRUITMENT

**Level: Master 1**

### Recommended specialities:

- ✓ Chemistry
- ✓ Physics
- ✓ Material Science
- ✓ Any other speciality after the study of the application form

### Admission procedure

#### Application form

- ✓ Master 1 grades
- ✓ Review by the management team
- ✓ Motivation for the Graduate Program
- ✓ Interview

### Lifelong training through and for research

The entire course is available as lifelong training subject to validation of the required prerequisites.



# GP MMER

MASTER level

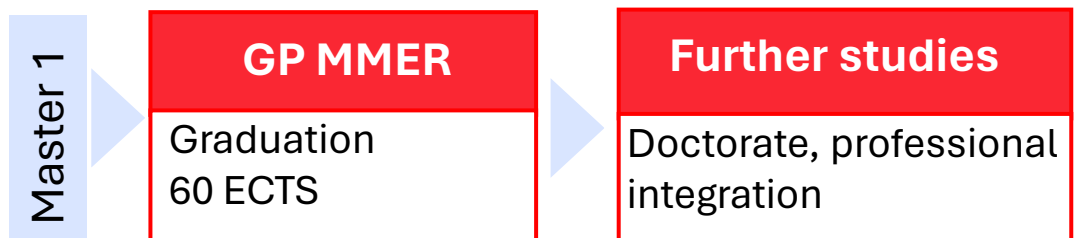
**Materials for the future  
and Management of the  
Enterprise Risks**

*Generalist training in Material  
Science and Management*

## Diploma



- ✓ **One-year courses**
- ✓ **International and interdisciplinary courses in english**
- ✓ **6-month course + work placement**
- ✓ **Organized around 4 axes:**
  - 1) Materials for Structures and Energy
  - 2) Materials for the Environment and Sustainable Development
  - 3) Materials for Healthcare
  - 4) Management of Enterprise Risks



## Training Objectives

The Graduate Program "Materials for the future and Management of Enterprise Risks" (GP MMER) aims to provide excellent training at the Master and PhD levels through an international and interdisciplinary program, combining expertise in materials science and engineering with expertise in financial, economic and societal risk management. At the Master's level, the aim is to enable students to obtain a degree in chemistry with a dual competence in management (M2 degree course).

## Training ORGANISATION

**Starting date** : september

**Duration** : 1 year

**Hourly volume** : 240h

**Internship** : 5 months minimum

**Assessment of knowledge** : ongoing assessment + exams

### Teaching Units

### Main courses

**Fundamentals in Materials Science**  
(60h, 7 ECTS)

Polymers and composites; Metals and ceramics: development and characterisation; Concepts in materials physics and modelling in materials science

**Materials for Structures and Energy**  
(40h, 5 ECTS)

Materials for transport and structures; Materials for energy storage; Materials for energy conversion

**Materials for the Environment and Sustainable Development**  
(30h, 4 ECTS)

Bio-based materials and eco-responsible processes; Materials and processes for depollution and separation; Porous and catalytic materials

**Materials for Healthcare**  
(30h, 4 ECTS)

Organic and inorganic biomaterials; Sensors and bioactive surfaces; Smart materials for therapeutics

**Management of the Enterprise Risks**  
(80h, 10 ECTS)

Risk management; Quality management; Project management; Team management; Corporate social responsibility; Financing renewable energy projects; Methodology of managerial dissertation; Business game.

## PROFESSIONAL INTEGRATION

### CAREERS

- ✓ Research and Development engineer
- ✓ Technical sales manager
- ✓ Start-up founder
- ✓ Lecturer - Researcher
- ✓ CNRS Researcher
- ✓ Project engineer

### SECTORS

- ✓ Research
- ✓ Building industry
- ✓ Energy and sustainable development careers
- ✓ Aeronautics
- ✓ Automobile manufacturing
- ✓ Health

In october on Campus France :  
[Études en France](https://etudes-en-france.diplomatie.gouv.fr)  
([diplomatie.gouv.fr](https://etudes-en-france.diplomatie.gouv.fr))

In march on e-candidat

<https://candidatures.u-pec.fr>

Website information

<https://sciences-tech.u-pec.fr>

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To help you with your administrative formalities, contact : SIOE (registration service) [sioe@u-pec.fr](mailto:sioe@u-pec.fr)

CROUS (grants and accomodation) :

[Demande de bourse ou de logement pour l'année 2024-2025 \(u-pec.fr\)](https://demande-de-bourse-ou-de-logement-pour-lannee-2024-2025.u-pec.fr)

### Faculties involved

Faculté des Sciences et Technologie (FST), IAE de Paris-Est, IUT de Créteil-Vitry

### Training venue

Institut de Chimie et des Matériaux Paris-Est (ICMPE)  
2-8 rue Henri Dunant, 94320 Thiais

[ICMPE - Institut de Chimie et des Matériaux Paris-Est \(cnrs.fr\)](https://icmpe.cnrs.fr)

### Contacts

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