



ADVANCED PHARMACEUTICAL ENGINEERING

To comply with the ever-increasing global pharmaceutical market, companies will have to adapt their production and supply chain and to develop new drugs. They will need new managers to target these goals. The **MSc Adpharming** aims at training these executives.

SKILLS ACQUIRED

- ✔ Understand and master the specificities of the international pharmaceutical industry
- ✔ Know and use the specific international regulations of the pharmaceutical industry
- ✔ Develop an in-depth knowledge and practical skills of chemical and process engineering applied to pharmaceutical engineering
- ✔ Know-how in developing innovative drugs by advanced galenics
- ✔ Mastering the key elements in lean management and pharmaceutical quality
- ✔ Ability to manage complex projects in a multicultural environment

CAREER OPPORTUNITIES

- ▲ R&D investigator in advanced galenics
- ▲ Formulation project leader
- ▲ Quality system manager,
- ▲ Pilot plant manager

Cosmetics

Nutraceuticals

Pharmaceutical devices

Biotechnology

Students can also pursue with a PhD.



The program includes visits to industrial pharmaceutical plants.



DURATION: 2 years including a semester-internship

INTAKE: September

LANGUAGE: English



MODE: Full time on campus

LOCATION: Albi, France

ACCOMMODATION: For all students



TUITION FEES:

18000€ for 2 years
(10950€ for European applicants)

APPLICATION DEADLINE:
June

SYLLABUS

Three academic semesters followed by a master thesis of 6 months done in industry or in an academic laboratory. Classes are delivered by high-level professors, researchers and industry professionals. The program also includes company visits and seminars.

SEMESTER | 1

FUNDAMENTALS IN INDUSTRIAL PHARMACEUTICAL ENGINEERING AND PROJECT

- ▲ Understanding the origin of physico-chemical phenomena underlying pharmaceutical processes
- ▲ Getting mathematical and IT tools and methods to solve engineering problems
- ▲ Learning the techniques to write a scientific report and to deliver an oral communication

SEMESTER | 2

PHARMACEUTICAL PROCESS ENGINEERING, LEAN MANAGEMENT, SUPPLY CHAIN, SYSTEM CONTROL, PROJECT

- ▲ Going deeper in process engineering and characterization techniques
- ▲ Dealing with business topics e.g. marketing, management, quality, lean, problem solving, visits to industry
- ▲ Getting knowledge on process instrumentation

SEMESTER | 3

SPECIFICITIES, REGULATION, ADVANCED GALENICS, LEAN, QUALITY, PROJECT

- ▲ Advanced knowledge on pharma processes, green chemistry and pharmaceutical products and devices
- ▲ In-depth learning of regulation, quality management in the pharmaceutical world
- ▲ Job search and oral communication training

SEMESTER | 4

- ▲ 6-month internship and professional thesis in industry and/or research laboratory in France or abroad

ADMISSION REQUIREMENTS

Bachelor's degree or equivalent in sciences or in engineering in one of the following fields:

- ▲ Chemical engineering
- ▲ Pharmaceutical engineering or sciences

English: B2, IELTS 6, TOEIC 750 or equivalent.

Professional experience is highly welcome.



One of the best things about the master was the links to industry. We did several visits to industrial pharmaceutical plants, and had many visiting professionals giving us courses on their specialities. I managed to obtain my final internship due to one of these site visits.

Ashleigh, New Zealand alumni

CONTACT

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APPLICATION

inscriptions.mines-albi.fr

WEBSITE

www.imt-mines-albi.fr/en

