

MASTER 2

MASTER'S DEGREE



Location

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Pharmaceutical and health product sciences

NANOMEDICINES AND PHARMACEUTICAL R&D

BECOME A STAKEHOLDER IN TOMORROW'S MEDICINE

Overview

To become a stakeholder in the development of tomorrow's medicines, the Nanomedicines and Pharmaceutical R&D (NanoPharma) master's degree offers a scientific and methodological approach to pharmaceutical development and innovation for complex experimental drug products.

The skills acquired by the students are taught by a cross-disciplinary team including professors and researchers from the Faculty of Health (Pharmacy School) and Engineering School of the University of Angers, as well as researchers and professionals from the pharmaceutical industry.

Objectives

Train managers and researchers in the pharmaceutical industry to develop complex experimental drug products, such as nanomedicines, in a translational research environment.

Unique features

International training programme

All classes are in English

Cross-disciplinary team

Distinguished faculty and experts drawn from academia and the pharmaceutical industry

Case studies and role-playing

Scientific and career-oriented project assignment

Personalised support

Further education & career prospects

This Master's degree may lead to a PhD (3-year research programme) within a company through a CIFRE (Convention Industrielle de Formation par la Recherche) or in an academic environment. It can also provide direct access to R&D jobs in health product companies.

Fields

Pharmaceutical industry, biotechnology, dermocosmetics, health products

Jobs

R&D formulation project managers

Research partnership manager

Science and technology monitoring managers

Research and technology transfer managers

Professors and Researchers

Who is it designed for?

- Students who hold a one-year Master's degree in Pharmaceutical Sciences, Chemistry, Physics or Biology
- Students who have successfully completed their 5th year Pharmacy studies
- Students who hold an engineering degree (chemistry or physics/biology interface)
- Healthcare professionals (medicine, pharmacy, dentistry, veterinary medicine)



Curriculum

SEMESTER 3 (30 ECTS)

Skill bloc 1: Design and Characterization of a complex drug product – 11 ECTS

Quality by Design approach and Design of experiments
Drug product design
Characterization strategy

Skill bloc 2: Biological interactions of a complex drug product – 8 ECTS

Non clinical methodology and models
Kinetics and efficacy
Safety

Skill bloc 3: Management of an innovative scientific project – 11 ECTS

Project management
Design and creativity and Intellectual property
Conferences on specific nanomedicine applications

SEMESTER 4 (30 ECTS)

Choice of a block from skill bloc 1 skill bloc 2 – 15 ECTS

Skill bloc 3: Management of an innovative scientific project (traineeship) – 11 ECTS

Knowledge check

This program is built around a skills-based approach: it encourages students to draw on and combine their knowledge, expertise, and interpersonal skills to effectively deal with real-life, complex, and interdisciplinary situations. This translates into greater student involvement through projects, case studies, simulations, and reflective assignments that require them to make connections between different areas of study.

This approach contextualizes learning, empowers students to take control of their own learning journey, and develops their reflexivity so that they become autonomous in analyzing their actions.

Please note

This postgraduate programme is open to international students, the training courses are in English. It is one of the study paths offered within the “Nanomedicine for drug delivery” (NANOMED) European Master’s degree (<http://master-nanomed.eu>).

Students may carry out internships abroad (EU countries, the USA, Canada). This international perspective prepare students for collaborative work worldwide

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