Université de Lille

European Master Bio and Pharmaceutical materials science (M1-M2)

Master Physique fondamentale et applications

Durée
2 ans

Composante
Faculté des sciences et technologies

Langue(s) d'enseignement
Anglais

Présentation

The **European Master programme "BIOPHAM** (BIO&PHArmaceutical Materials science)" is a two-year (120 ECTS) programme entirely taught in English and jointly operated by the University of Lille (France), the University of Pisa (Italy), the University of Silesia in Katowice (Poland) and the Polytechnic University of Catalunya in Barcelona (Spain).

BIOPHAM aims to meet the growing international demand for highly qualified graduates with both theoretical and applied high-level training in materials science (physics-chemistry) and its applications to pharmaceutical and biopharmaceutical materials. The programme offers a comprehensive education and training curriculum covering soft matter, biomaterials, the physical states and transformations of drugs, artificial intelligence, modelling, and advanced experimental characterization techniques, including the use of instruments available at large-scale research facilities. One of BIOPHAM's primary objectives is to foster the emergence of the new discipline of "pharmaceutical materials science" addressing the significant shortage of skilled professionals in this field. This initiative is particularly relevant to the research-based pharmaceutical sector, including large pharmaceutical companies, small and medium-sized enterprises (SMEs), spin-offs, start-ups, contract research organizations, drug manufacturers and international cluster of public and private organizations.

Savoir-faire et compétences

Beyond technical expertise, BIOPHAM equips students with a range of transversal skills, including entrepreneurship, project management, economic and strategic intelligence, marketing, and bibliographical research and synthesis. The programme also fosters soft skills such as intercultural communication, research experience, scientific communication, and proficiency in the national languages of the host universities. These additional competencies enable graduates to integrate seamlessly into the global professional environment and adapt effectively to their future careers in academia and industry.

Les + de la formation

In addition to academic training, and in recognition of the need for interdisciplinary expertise, BIOPHAM students benefit from collaboration with an extensive network of industry and research partners. These include 21 major and smaller pharmaceutical companies, one international health cluster/ incubator and 4 large-scale research facilities, such as synchrotron and neutron sources.

The programme is further strengthened by partnerships with 11 prestigious universities across Europe and beyond. These partners contribute actively to the programme, ensuring that its content reflects the evolving needs of potential employers

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while preparing the next generation of pharmaceutical material scientists.

Organisation

Organisation

The master's programme is presented at https://www.master-biopham.eu/

Stages

Optionnel en M1, obligatoire en M2

Admission

Conditions d'admission

https://www.master-biopham.eu/how-to-apply/application-procedure/2/selection-procedure-1-1

Et après

Poursuite d'études

After completing this master's degree, the student can continue his studies with a PhD.

Insertion professionnelle

R&D engineer in pharmaceutical companies, technical sales engineer, researcher.

Pour en savoir plus sur l'insertion professionnelle des diplômés de l'Université de Lille, consultez les répertoires d'emplois publiés par l'*ODiF (Observatoire de la Direction des Formations)*

Les fiches emploi/métier du *Répertoire Opérationnel des Métiers et des Emplois* (ROME) permettent de mieux connaître les métiers et les compétences qui y sont associées.

Infos pratiques

Autres contacts

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Contact pédagogique :
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Lieu(x)

Villeneuve d'Ascq - FST

Campus

Campus Cité scientifique

En savoir plus

Faculté des Sciences et Technologies - FST
https://sciences-technologies.univ-lille.fr/