



MASTER'S
DEGREE

Master 1 / Master 2

Biology and Health Science

NEW PROGRAM

Accessible in:

- Initial education
- Continuing education





UNIVERSITÉ DE LILLE

Université européenne de référence, reconnue pour l'excellence de sa recherche et de sa formation, l'Université de Lille fait de la réussite étudiante une de ses préoccupations majeures et elle place l'insertion professionnelle au cœur de son engagement. Adossée à une recherche de pointe, son offre de formation se veut en phase avec les évolutions des mondes socio-économique et socio-professionnel afin de contribuer aux grandes transitions de notre société et préparer chacune et chacun, tout au long de sa vie, aux compétences et métiers de demain.

L'Université de Lille, composée depuis 2022 de 11 facultés et 4 écoles partenaires – École Nationale Supérieure des Arts et Industries Textiles (ENSAIT), École Nationale Supérieure d'Architecture de Lille (ENSAPL), École Supérieure de Journalisme de Lille (ESJ Lille), Sciences Po Lille (IEP) –, est un acteur des écosystèmes du territoire par les nombreux partenariats (sportifs, culturels, sociaux, économiques...) qu'elle noue, au profit de ses étudiant·es et de ses personnels. Les 6 500 professionnels et intervenants externes qui s'impliquent dans les activités pédagogiques, le développement de chaires et de coopérations pour accompagner les transitions dans toutes leurs formes, sont autant d'exemples de la dynamique engagée.

L'Université de Lille est lauréate de la 3e vague de l'appel à projets du Ministère de l'Enseignement Supérieur et de la Recherche (MESR) ; Le projet de l'université est axé sur le 1er cycle. Ce sont en effet plus de 36 000 étudiant·es qui sont inscrit·es dans les formations de licence, de BUT et de DEUST de l'établissement : l'université doit leur offrir une excellence à la fois académique, sociale et sociétale, qui donne à chacun.e les moyens d'atteindre son propre niveau d'excellence, au bénéfice de l'intérêt général et du bien commun.

Inspirons demain !

PRÉSENTATION DE L'UFR3S

UFR3S Sciences de santé et du sport

L'Université de Lille compte une nouvelle composante, l'Unité de formation et de recherche des Sciences de Santé et du Sport, l'UFR3S, fruit de la fusion des cinq Facultés d'Ingénierie et management de la santé, de Médecine, d'Odontologie, de Pharmacie , des Sciences du sport et de l'éducation physique.

Avec près de 23 000 étudiants, 850 enseignants chercheurs et 500 personnels administratifs et techniques, l'UFR3S forme une communauté forte et cohérente unie par un objectif commun : créer et transmettre le savoir et construire les compétences du domaine des Sciences de Santé et du Sport.

Installée sur près de 120 000m² d'espaces de formation et de recherche, et partenaire d'un des meilleurs hôpitaux universitaires français, l'UFR3S bénéficie pleinement de l'excellence en matière de soins, de formation clinique et de recherche scientifique.

Partenaires de 115 universités étrangères réparties dans 38 pays des cinq continents, les facultés de l'UFR3S sont également des acteurs internationalement reconnus de l'enseignement et de la recherche.

UFR3S-Pharmacie

La Faculté de Pharmacie est l'une des principales de France. Elle compte environ 2 900 étudiants en formation initiale ou continue, 140 enseignants-chercheurs, une centaine de personnels techniques et administratifs. 16 unités de recherche accueillent les travaux des chercheurs et enseignants chercheurs de la Faculté.

De plus, les étudiants bénéficient de nombreuses innovations pédagogiques, d'un enseignement par la simulation via le jeu sérieux e-caducée et l'officine pédagogique.

Elle prépare au Diplôme d'Etat de Docteur en Pharmacie et à 25 autres diplômes en formation initiale ou continue (Licence et Master Sciences du Médicament et des Produits de Santé, DEUST, Licences Professionnelles, Diplômes Universitaires...).

MASTER : BIOLOGY - HEALTH

MASTER 1

MASTER 2 : TRACKS

Biomedical research on donors bodies

Cellular, Integrative and Translational Neurosciences

Diabetes and cardiovascular diseases

Oncologie fondamentale et clinique, vers une médecine de précision

Immunité, inflammation, infection

Precision Health
Graduate Program

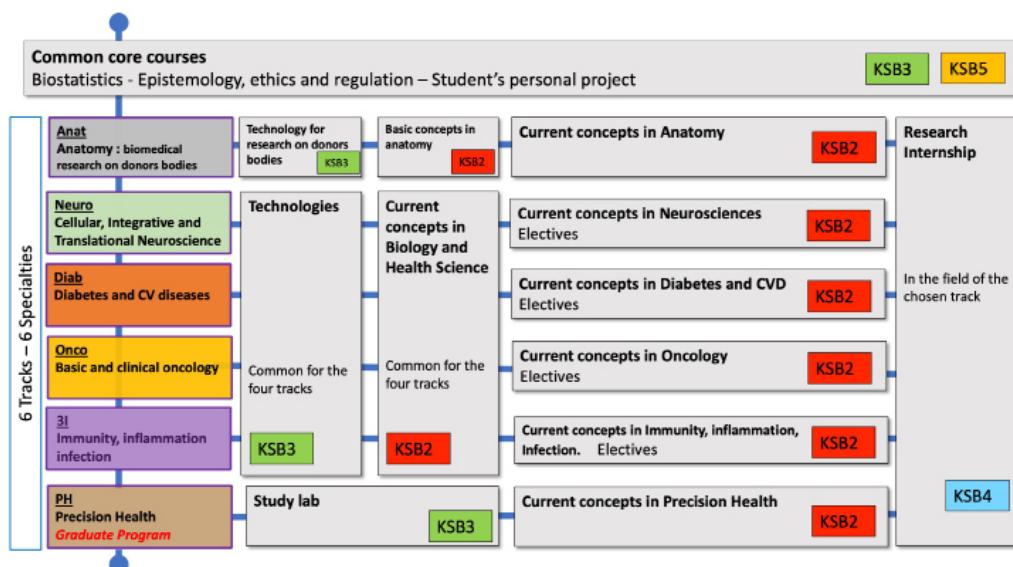
MASTER'S DESCRIPTION

Biology-Health master's degree prepares students in research through research. This master mainly aims to prepare students for further PHD studies. However, it is also possible to work as a research engineer project manager/science officer in the pharmaceutical or biotechnology industry. The program is offered by Lille University School of Medicine in association with the Faculty of Science and Technology and it targets two different audiences: students with a bachelor's degree in life science and students with a bachelor's degree in health (medicine, pharmacy, odontology). The program's duration is 2 years (Master 1st year - Master 2nd year).

OBJECTIVES

Master 1st year provides the bases in biological and health sciences, with progressive specialization.

Master 2nd year offers six different tracks: They all aim to provide students with quality education to pursue a university thesis in their speciality field.



PROGRAM ORGANIZATION

- The program's duration is two years (4 semesters of 30 ECTS). Courses are held in French and English.
- The courses are organized in Skills and knowledge units (SKU) spread throughout the two-year's program.
 - SKU 1 :** Knowing basic concepts in Biology-Health
 - SKU 2 :** Knowing current concepts in Biology-Health in the chosen special
 - SKU 3 :** Developing and implementing an experimental approach in Biology-Health
 - SKU 4 :** Conducting a research project in Biology-Health
 - SKU 5 :** Understanding and communicating on scientific content in English
- M1 prepares students for the multiples M2 specializations.
- For more details: <https://master-biologie-sante.univ-lille.fr>

Biomedical research on donors bodies

- This track is reserved for health students. The objective is to deepen the students' knowledge in applied anatomy and to provide the essential skills to carry out research on donor bodies.

Cellular, integrative and translational neuroscience

- Particularly focused on the interface between cellular aspects, the study of neuro-glial networks and the development of integrated models with technological, diagnostic and therapeutic applications in the field of neurological and mental pathologies.

Diabetes and cardiovascular diseases

- Particularly dedicated to recent developments in "Omics", the impact of genetics, the epigenetics and the environment on the development of cardiometabolic diseases, cardiovascular and hepatic complications in diabetes.
- The role of deregulation of the dialogue between organs and tissues in the pathophysiology of diseases associated with diabetes is discussed as well as the identification of therapeutic targets..

Fundamental and clinical oncology, towards precision medicine

- Combining basic research, clinical research and applied research in diagnosis and therapy. It is based on developed themes in the expert research teams in this field at the University of Lille. This pathway provides an integrated vision of cancer pathology and current and future therapies.

Immunity, inflammation and infection

- Based on the developed themes in the research structures at the University of Lille, in particular (1) the molecular and cellular dynamics of the pathogenic-host microorganism interactions, (2) the immune processes involved in infectious pathologies, (3) chronic inflammatory diseases, and (4) the relationships between the immune system and the environment (microbiota, pollution, sport, food, etc.). Today's therapeutic strategies aiming to manipulate molecular and immune effectors will also be developed.

Precision Health-Graduate Program

- This is an international pathway that is part of a graduate program.
- Its distinctive character will be to rely on examples taken from the health sector's key themes, which cover different types of chronic diseases justifying a long-term precision approach, from screening to the prevention of complications.



For more information on the national degrees programs offered by the University of Lille, consult the degree catalog:

www.univ-lille.fr/formations

TARGETED AUDIENCE ■ ■ ■ JOB OPPORTUNITIES & FURTHER STUDIES

- Students with a bachelors' degree in Life Sciences or an equivalent diploma can apply for the Master 1 "Biology".
- Only students registered in Medicine, Pharmacy, Odontology or Maieutic can apply for the Master 1 - options "Health – single curriculum" and "Health – double curriculum Medicine-Science"

The program leads mainly to a doctoral degree.
Graduates can also apply for the following jobs :

- Design engineer in a public or private laboratory
- Project manager/ science officer in the pharmaceutical or biotechnology industry
- University teacher/researcher (with further doctoral studies)

TARGETED SKILLS

- To contribute to a research activity in Biology Health in a research laboratory;
- To design an experiment in Biology-Health in the chosen field of specialization by defining a problem and formulating the objectives;
- To implement an experimental approach in Biology-Health
- To analyze data collected in fundamental, clinical or pharmacological research studie
- To communicate scientific data in English, adapting the level of expression and specialization to the target audience

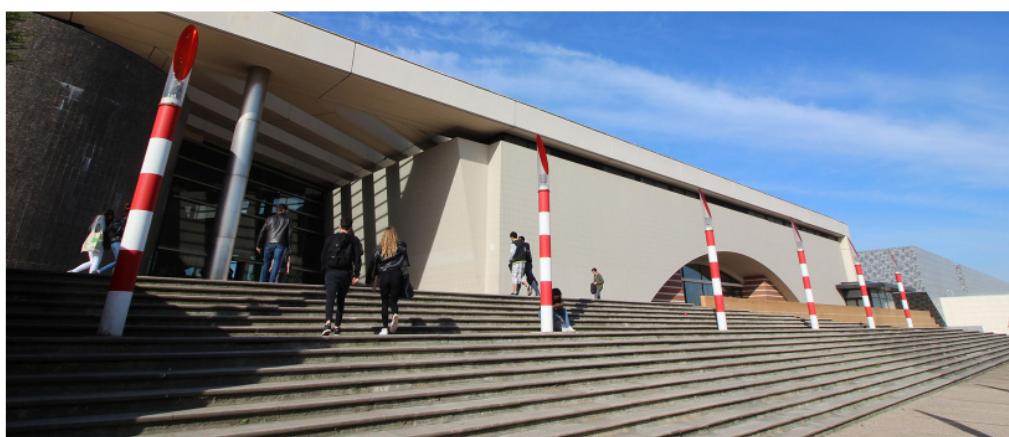
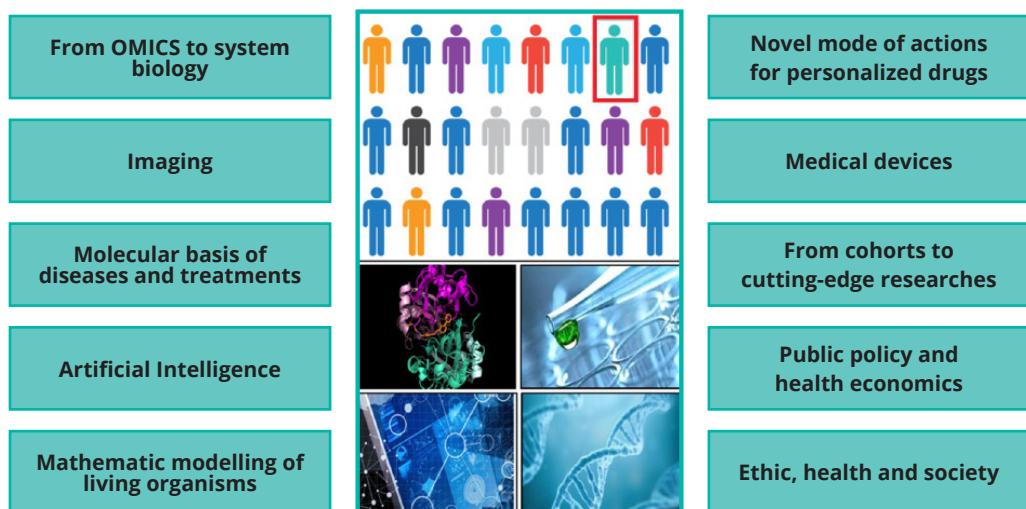
**Find the studies and surveys of the ODiF
(Observatoire de la Direction de la Formation)
on professional integration of graduate
students: <http://odif.univ-lille.fr>**

NB : A certified level in French will be required.



FOCUS ON PRECISION HEALTH TRACK

- International course open to students from scientific, medical/pharmaceutical and (bio)informatics education
- Ten interactive seminars given by national or international experts in the fields of multi-OMICS, artificial intelligence, mathematic modelling of biological systems, state-of-the-art therapies (medical devices and personalized drugs), cohort management, healthcare economics and ethics
- Application examples from the leading themes of the research sector, cancer, diabetes, neurosciences, infection/immuno/inflammation, justifying a precise approach over the long term, from screening to the prevention of complications
- A particular focus toward the business world and bio-entrepreneurship, particularly for the preparation to job integration
- A six month training in research through research in internationally recognized laboratories with a personalized preparation
- PHD fellowships awarded to students motivated to pursue their research training



ADMINISTRATIVE CONTACT

Lille University School of Medicine

Faculté de Médecine de Lille

Bureau Master biologie sante

F-59045 Lille cedex

<http://master-biologie-sante.univ-lille.fr>

Métro : Ligne1, station CHU Eurasanté

Phone: +33(0)3 20 62 69 00

APPLICATION AND ADMISSION

MASTER 1

Admission to the first year of the Master's program is subject to the application file examination according to the following procedures:

BIOLOGY STUDENTS

Admission capacity

- 50 places for the Biology option

Selection procedure

- Application file

Application's evaluation criteria

- A Completed Bachelor's degree in life sciences, life and earth sciences, science and biotechnology, biologic health sciences or any other equivalent degree,
- A clear and realistic presentation of a professional project, explained for the short, medium and long term,
- Adequacy between the master's degree and the professional project presented

HEALTH STUDENTS

Admission capacity

- 300 places for the Health - single curriculum option and 15 places for the Health - double curriculum medicine/science option

Application's evaluation criteria

- A clear and realistic presentation of a professional project, explained for the short, medium and long term
- A adequacy between the master's degree and the professional project presented
- To have validated at least completely the second year of health studies (medicine, pharmacy or odontology)

NATIONAL RECRUITMENT PROCEDURE and timetable via www.monmaster.gouv.fr

Applications from 22/03 to 18/04 inclusive

Examination of applications from 24/04 to 16/06

Transmission of admission proposals to candidates and candidates' replies: from 23/06 to 21/07.

MASTER 2

Access to master 2 degree is possible for students from other universities who have validated a master 1 degree in the field of Biology and Health or in an equivalent field. Please contact the program managers.

PROGRAM MANAGERS

Head

Professor **Pr Kathy DJARDIN**

Study coordinators

Lille University School of Medicin

M1 : Biology option : **Pr Eric ADRIAENSENS**

M1 : Health options: **Dr Cyril COUTURIER**

M2 : **Pr Fabrice ALLAIN**

SUPPORT AT THE UNIVERSITY OF LILLE

STUDY PROGRAM ADAPTATION

In order to offer the best possible conditions for success to the students it welcomes, the University of Lille has set up various adaptations to enable students to start and continue their studies in the best possible way, depending on their situation: study arrangements for high school students concerned by a Parcoursup «Yes if» answer, students with disabilities, high-level sportsmen and women, civic service volunteers, students in exile, etc.

- <https://www.univ-lille.fr/formation/amenagements-des-etudes/>

INFORMATION AND GUIDANCE

The SUAOI - Service Universitaire Accompagnement, Information et Orientation - is open to all: information, advice and support, orientation and reorientation, personal interviews

- www.univ-lille.fr/formation/sinformer-sorienter

PREPARATION FOR PROFESSIONAL INTEGRATION

The BAIP - Bureau d'Aide à l'Insertion Professionnelle (Office for Professional Integration Support) offers students support for professional integration (internships and first jobs), entrepreneurship and the creation of activities.

- www.univ-lille.fr/formation/preparer-son-insertion-professionnelle

APPRENTICESHIP

To acquire skills, a diploma and professional experience at the same time, more than 220 courses are offered on a sandwich course (professionalization or apprenticeship contract).

- [https://formationpro.univ-lille.fr/alternance](http://formationpro.univ-lille.fr/alternance)

LIFELONG LEARNING

All of the university's degree programmes are accessible through continuing education. The Continuing Education and Work-linked Training Department offers individualised support for your project (VAPP, VAE).

- [https://formationpro.univ-lille.fr/](http://formationpro.univ-lille.fr/)

AND THE INTERNATIONAL SCENE!

- [https://international.univ-lille.fr/](http://international.univ-lille.fr/)