

# 3 GRADUATE PROGRAMMES OF EXCELLENCE IN LILLE

SCIENCE FOR A CHANGING PLANET (7 MA programmes)

PRECISION HEALTH (1 MA programme)

INFORMATION & KNOWLEDGE SOCIETY (10 MA programmes)

- **interdisciplinary training** for research by doing research in a **stimulating scientific environment**
- specialised training for cooperation with the **private sector**
- **international** mobility
- international thematic **summer schools**

## WITHIN THE 14 ESTABLISHMENTS OF THE LILLE CONSORTIUM



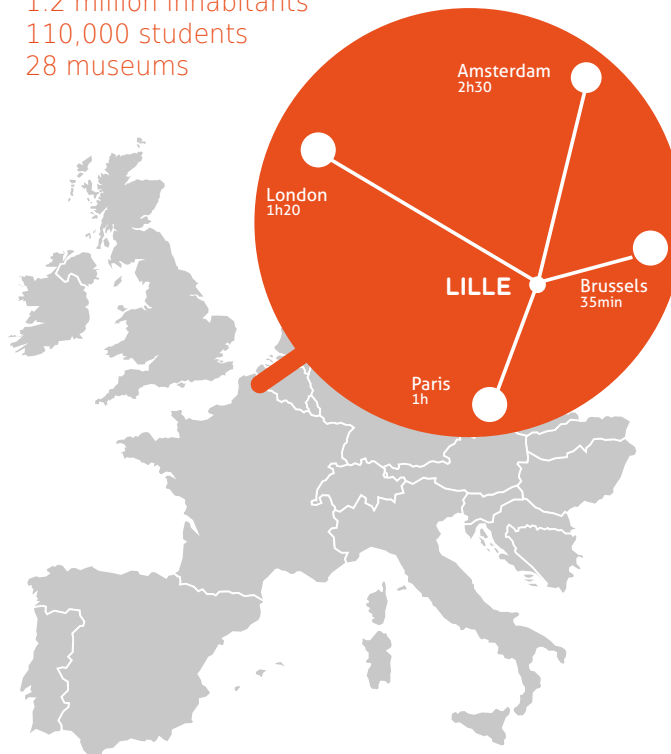
## CONTACT

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More information:  
<http://www.isite-ulne.fr/index.php/en/graduate-programme-health/>

**LILLE, A VIBRANT CITY AT THE HEART OF NORTHERN EUROPE**  
 1.2 million inhabitants  
 110,000 students  
 28 museums



GRADUATE PROGRAMME

# PRECISION HEALTH



A SPECIALISED MASTER'S DEGREE IN LILLE, FRANCE

NEUROSCIENCES Health economics  
 HEALTHY AGING  
 Cardiovascular diseases Big Data ETHICS  
 GENOMICS IMAGING CANCER  
 OBESITY  
 INFLAMMATION Epidemiology  
 AI  
 INFECTION DISCOVERY  
 PRECISION MEDICINE  
 NUMERIC HEALTH  
 PREVENTION  
 SYSTEMS BIOLOGY E-medecine  
 Patients ALZHEIMER  
 COHORTS Biotherapy  
 Diabetes  
 Neurodegenerative diseases  
 innovative treatments  
 Clinical research  
 DRUG DISCOVERY  
 PREDICTION  
 Trans-OMICS IMMUNITY  
 MODELISATION EXPOSOME MEDICAL DEVICES

TRAINING FOR RESEARCH BY DOING RESEARCH FOR MASTER'S & PhD STUDENTS





## OUR CHALLENGES:

promoting **SYSTEMS BIOLOGY** and **PRECISION MEDICINE**

catalysing **DIGITAL REVOLUTION** in biomedical research

maximizing the impact for **PATIENT** and **SOCIETY**

- **International course** open to students from **scientific, medical/pharmaceutical** and **(bio) informatics** educational background
- **Interactive seminars** given by experts in the fields of **multi-OMICS, artificial intelligence, mathematic modelling of biological systems, state-of-the-art therapies** (medical devices and personalised drugs), **cohort management, healthcare economics and ethics**

From OMICS  
to systems biology

Novel Mode of actions  
for personalized drugs

Imaging

Medical devices

Molecular basis of diseases  
and treatments

**Master Biology & Health  
Precision Health**

From cohorts  
to cutting-edge researches

Artificial Intelligence

Public policy  
and health economics

Mathematic modeling  
of living organisms

Ethics, health and society

- 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 towards the **business world** and **bioentrepreneurship**
- A 6-month **training in research through research** given in internationally recognized laboratories
- **PhD fellowships** awarded to students motivated to pursue their research training

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



## A stimulating scientific environment within the 'precision health' hub:



**81 TEAMS  
IN 32 LABORATORIES**



**409 PHD STUDENTS**



**592 PERMANENT RESEARCHERS**



**INTERNATIONAL ENVIRONMENT**



**900 PUBLICATIONS PER YEAR**



**CUTTING-EDGE EQUIPMENTS**  
in biology, chemistry, bioinformatics...  
State of the art imaging and OMICS  
facilities



**INDUSTRIAL PARTNERSHIPS:**  
Industrial chairs, Eurasanté,  
PreciDIAB Initiative...

