

UNIVERSITY

**BRIDGE  
THE GAP!**

**CILS**

CERTIFICATE  
IN INDUSTRIAL  
LIFE SCIENCES

INDUSTRY

IMPROVING THE EMPLOYABILITY  
OF GRADUATES WITH A  
UNIVERSITY DEGREE IN LIFE  
SCIENCES



**UNIVERSITÉ  
DE GENÈVE**

FACULTÉ DES SCIENCES

## PROGRAM STRUCTURE: 5 modules (360 hours of teaching)

### Module 1: Pharmaceutical industry - business development (6.5 ECTS)

INTRODUCTION TO THE PHARMACEUTICAL INDUSTRY 5 ECTS  
PHARMACEUTICAL PROJECT AND PORTFOLIO MANAGEMENT 1 ECTS  
THEORY into PRACTICE: CREATING a SUCCESSFUL BUSINESS in Life Sciences 0.5 ECTS

### Module 2: Science : the steps behind a succesful drug – biotechnology and personalized medicine (4.5 ECTS)

DRUG DISCOVERY AND DEVELOPMENT : AN INDUSTRIAL PERSPECTIVE 2 ECTS  
BIOTECHNOLOGY DEVELOPMENT 1.5 ECTS  
PERSONAL GENOMICS & PREDICTIVE GENETICS 1 ECTS

### Module 3: Clinical trials and regulatory aspects, incl. IP (7 ECTS)

INTRODUCTION TO BIostatISTICS: REAL LIFE EXAMPLES IN CLINICAL RESEARCH AND DEVELOPMENT 2.5 ECTS  
DRUG DEVELOPMENT AND CLINICAL TRIALS 2.5 ECTS  
PATENTING PROCEDURES AND INTELLECTUAL PROPERTY 2 ECTS

### Module 4: Quality and ethics in pharmaceutical/biomedical research (6 ECTS)

QUALITY BY DESIGN (QBD) TO ENSURE PRODUCT QUALITY and OPERATIONAL EXCELLENCE (Lean 6 Sigma) 1.5 ECTS  
PRE-CLINICAL IN VIVO MODELS 2 ECTS  
ETHICS IN RESEARCH 2.5 ECTS

### Module 5: Final project (6 ECTS)

Total number of ECTS: 30

## TEACHING METHODS

- Course teachers are specialists in their various disciplines
- Pedagogy based on **case studies**, on **site visits** and on **active interactions** with experts
- Teaching in **English**
- Students will regularly prepare **oral presentations** and **written reports**
- Part of the evaluation will be based on a **personal final project** produced by the student

## PRACTICAL INFORMATION & CONTACT

**MAXIMUM 20 PLACES** – Spring semester (February - July 2020)

**N.B. Course will be offered if a minimum number of students is enrolled**

Courses given at the Faculty of Science and on site by industrial partners + Industrial site visits

Selection of graduates will be based on the application package

All graduates must be registered at the University of Geneva (proof of payment of registration fees - 65 CHF - is required)

**APPLICATION PACKAGE MUST CONTAIN (one single pdf file)**

- motivation letter, CV (2 pages maximum)
- copies of diplomas, University mark transcripts

**ONLINE REGISTRATION ONLY:** [cils.unige.ch](http://cils.unige.ch)

**REGISTRATION DEADLINE:** September 30, 2019

**CONTACT:** [CILS@unige.ch](mailto:CILS@unige.ch)

## PEOPLE

Graduates holding a **master or a PhD degree** in biochemistry, biology, bioinformatics, chemistry, pharmaceutical sciences or equivalent

## ALUMNI (2017 and 2018)

- **Two-thirds have started new careers:**

46% - Pharma/Biotech industry  
19% - Doing a post-doc  
3% - Started a doctorate

## CILS PARTNERS



## CILS BOARD MEMBERS

