

# SCHOOL OF ENGINEERING IN BIOTECHNOLOGIES





AT YOUR COMPANY'S SERVICE





# YOUR CONTACTS AT THE CORPORATE RELATIONS OFFICE

# DIRECTOR OF CORPORATE RELATIONS

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# OUR GOAL

The Corporate Relations office focuses on creating a network between companies (both nationally and internationally) and students in order to facilitate their integration into the workplace and increase the visibility of companies among the student body.

The Corporate Relations office also strives to help your business in the recruitment of trainees or graduates.

# THE SCHOOL

Sup'Biotech's pedagogy is a multidisciplinary balance between scientific and engineering qualifications (theoretical lessons, laboratory practical experiments and projects), management skills, industrial know-how as well as knowledge of both domestic and international biotechnology markets. Our five year program leads to an engineering diploma in biotechnology, classes are taught in English from the third year onward to prepare Sup'Biotech students to work in an international environment.

Sup'Biotech was created to give companies what they needed in terms of Biotech engineering knowledge and manpower



# EXPERTISE PROGRAM

# **CORE CURRICULUM**

4th year: 4 month internship during the Fall Semester

- **B** Life Sciences: Genetic Engineering, Pharmacology, Toxicology, Membrane Systems
- Recognition Chemistry and Physics: Organic Synthesis, Green Chemistry, **Analytic Physico-chemistry**
- **Mathematics:** Biostatistics
- **Bioinformatics:** Molecular Modeling, Applied Genomics
- Management: Project Management, Finances, Law, Patents, Economic Intelligence, Business
- B Development, Business Strategy
- **®** Communication: Professional Communication
- Representational Representation and the Repre

# **CORE CURRICULUM**

5th year: 6 month internship during the Spring Semester

- **& Life Sciences:** Protein Engineering, Nanobiotechnologies, Advanced Immunology
- Recomplete Chemistry, Green Tech
- Bioinformatics: Conception of Databanks, Drug Discovery
- Management: Human Resource Management, Technological Resource Management, Economic Intelligence
- Reference to the French as a Foreign Language for International Students

# **MAJORS**

# **FOURTH YEAR COURSES**

# **Production:**

# Marketing & Sales:

- Molecular self-assembly in vivo

#### FIFTH YEAR COURSES

# **Production:**

# Marketing & Sales:

#### R&D

# **MINORS**

# **FOURTH YEAR COURSES**

- Health:
- Food: Metabolic Biochemistry,
- Environment: Waste processing,
- Cosmetics: Formulation Chemistry,
- Bioinformatics: Advanced

# FIFTH YEAR COURSES

- · Health:

- Cosmetics: Bioprocesses,
- Bioinformatics: Metabolic

# INTERNSHIP PERIODS CALENDAR

MASTER PROGRAM	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
<b>4</b> <sup>th</sup> <b>year internship</b> > 4 months												
5 <sup>th</sup> year internship > 6 months												

# OUR EXPERTISE CURRICULUM INCLUDES 2 INTERNSHIPS.

INTERNSHIP	<b>4<sup>th</sup> YEAR:</b> ASSISTANT ENGINEER INTERNSHIP	<b>5<sup>th</sup> YEAR:</b> ACCREDITATION INTERNSHIP				
Goals	<ul> <li>To take on a study that would usually be given to an engineer specialized in one of the chosen fields of biotechnology</li> <li>To acquire the skills of a future executive in engineering</li> </ul>	<ul> <li>To accomplish a genuine long term engineering project in relation with the student's major and professional project</li> <li>To be immediately operational post-graduation and aim for a first employment</li> </ul>				
Contribution to the host organization	The grad student is capable of:  > Analyzing a problem  > Offering an implementation in problem solving methods and solutions	<ul> <li>Applying scientific knowledge, technical abilities and project management on complex systems independently</li> <li>Validating a company executive's performance by being capable of undertaking responsibilities</li> <li>True pre-hiring phase</li> </ul>				

# **INTERNSHIP EXAMPLES**

# R&D:

# Pharmaceutical company:

Ex: Identification and characterization of oxidative DNA damage caused by chemicals (with a focus on pharmaceuticals) in in vitro systems with various technologies.

# Biotech company:

Ex: Assessment of novel CNS therapeutics, specifically on spinal cord injury and Alzheimer's disease projects.

# **Marketing:**

# Cosmetic company:

Ex: Product development, sales, marketing, proposing ideas for new organic cosmetics products.

# Lab equipment manufacturer:

Ex: Marketing, sales, and public relationrelated activities: development and design of marketing content, materials and strategies; organization of promotional events, e.g., conventions, trade fairs.

# **Production:**

# Biorefinery company:

Ex: Improve the process of simultaneous saccharification and fermentation of sugar palm for the production of second generation biofuel.

# Winemaking group:

Ex: Participate in the realization of microvinifications, monitoring of temperature & density during fermentation, sampling & collecting the results to build a database.

# **TESTIMONIALS**



"Working in a startup environment, I have learnt to be very organized, efficient and independent. For this internship, creativity was also required. Also, as the firm was small, I have been able to see every aspect of the development of cosmetics."

#### Alexandra SILVAIN.

4th year internship in Marketing, MAULI RITUALS, England



"I wanted to do my internship abroad because for me it's important to have an international experience. My project was to do a preliminary in-vitro assessment of Clostridium septicum strains for their suitability as source of vaccine antigen."

## Martin PONS.

4th year internship in R&D, VIRBAC, Australia



"I had the great opportunity to realize my 5<sup>th</sup> year and end of study internship at Brown University, Providence in the United States in the Reproductive Toxicology laboratory. I had the mission to elaborate and optimize a protocol for 3D human prostatic (RWPE-1 and WPMY-1 cell lines) microtissue for androgenic screening assessment and characterization with HCS with the aim to develop new models than mimic more accurately in vivo human conditions."

# Chloé BARS,

5<sup>th</sup> year internship in R&D, BROWN UNIVERSITY, USA



"My mission there was to develop the marketing campaign of laboratory products. I had to write and update the website content, make the brochures, flyers and explain to the salesmen company products."

# Julie FICHEUX,

4th year internship in Marketing, EUROGENTEC, Belgium



"It was great experience. I hope of developing a partnership between Sup'Biotech for internships and projects."

#### Elena KIPROUCHKINA.

Internship supervisor, ITMO UNIVERSITY, Russia

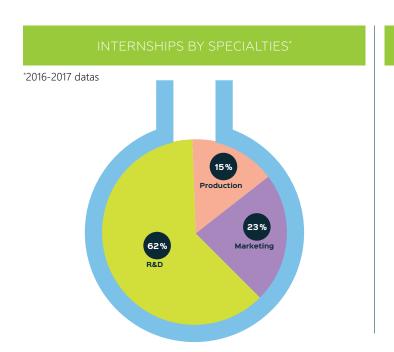


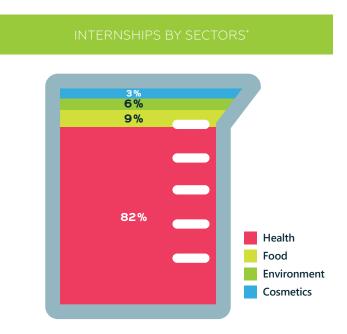
"The training that was provided to Chloe before she came to us gave her a basic understanding and hands on experience with the skills necessary for her work in the laboratory. After minimal additional training and guidance in the methods of this lab, she had the confidence to pursue her own project and set up her own experiments. The training that Chloe had received more than met expectations."

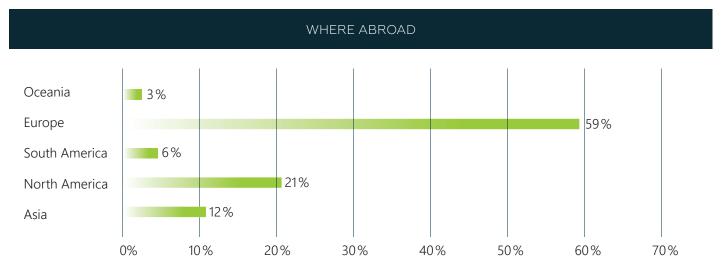
#### Kim BOFKFI HFIDE.

Internship supervisor, BROWN UNIVERSITY, USA

# A FEW KEY NUMBERS ABOUT INTERNATIONAL INTERNSHIPS







# REFERENCES

# USA:

- LabMinds Inc., Boston (MA)
- Northeastern University College of Science, Boston (MA)
- Cambridge Biolabs, Cambridge (MA)
- Brown University, Providence (RI)
- NOVORON BIOSCIENCE INC., San Diego (CA)
- HSCI iPS Core Facility, Cambridge (MA)

# CANADA:

• Jus Loop, Québec

#### **GERMANY:**

- BAYER PHARMA AG Investigative Toxicology, Berlin
- GTMHC, Berlin
- Labiotech UG, Berlin

# **ENGLAND:**

- Mauli Rituals, London
- Evotec Ltd, Oxfordshire

#### **IRELAND:**

• National University of Ireland Galway, Galway

#### **BELGIUM:**

- UCB Pharma SA, Brussels
- ALTEN, Saint-Gilles
- EUROGENTEC SA, Seraing

## LUXEMBOURG:

• IBBL (Integrated BioBank of Luxembourg), Luxembourg

# CZECH REPUBLIC:

• Biowebspin, Prague



- ALCIMED, Lausanne
- ETH ZURICH (Eidgenössische Technische Hochschule Zurich)

## CHILE:

• Vina San Pedro Tarapaca SA (VSPT Wine Group) Santiago

# **ECUADOR:**

• Centro Neotropical para la Investigacion de la Biomasa, Ecuador

#### AUSTRALIA:

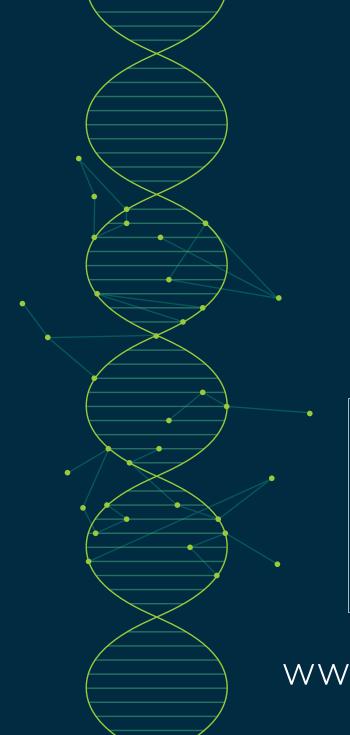
• Virbac Australia Pty Ltd, Penrith

# **DANEMARK:**

- Nordic Bioscience, Herlev
- Back II Basics, Vejle

#### SWEDEN:

• AstraZeneca, Molndal





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IONIS Education Group was founded by Marc Sellam in 1980. Today, it is France's leading private higher education group, with some 20 schools and educational institutions in 12 French cities. The Group serves around 25,000 students studying business, marketing/communications, management, finance, IT, digital applications, aeronautics, energy, transportation, biology, design, and more. IONIS Group's mission is to train the next generation of business intelligence leaders; our students are constantly challenged to cultivate an international perspective, to maintain an innovative and entrepreneurial mindset, and to promote a culture of adaptability and change. This positions our students, and our 65,000+ alumni, as key players in the new economy.

\* ISG, Moda Domani Institute, ISEG Business & Finance School, ISEG Marketing & Communication School, ISTH, ICS Bégué, ISEFAC Bachelor, ISEFAC R.H., EPITA, ESME Sudria, IPSA, Epitech, Web@cadémie, Sup'Biotech, e-artsup, Ionis-STM, SUP'Internet, ISEFAC Alternance, ETNA, IONIS UP, Coding Academy, IONIS 361

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