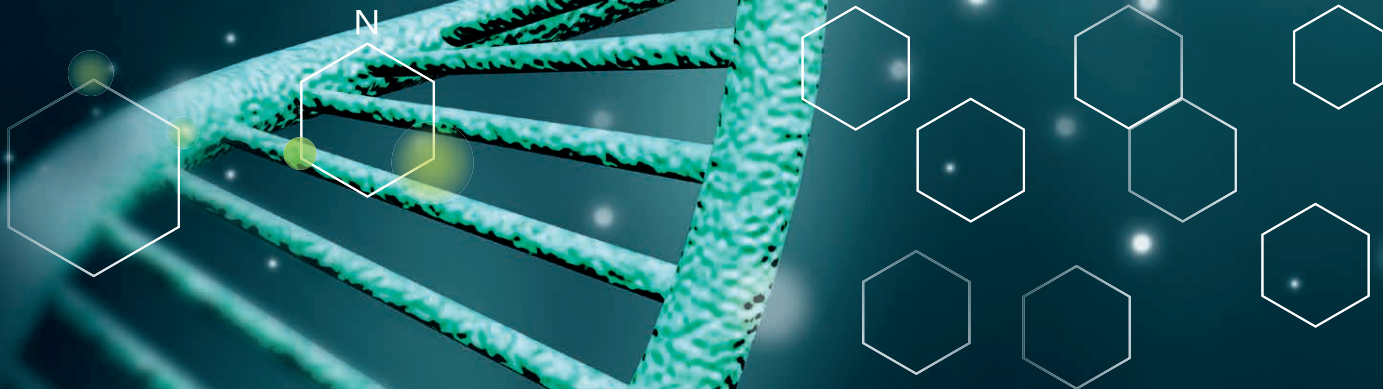
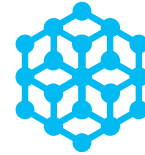


# DISCOVER SUP'BIOTECH PARIS

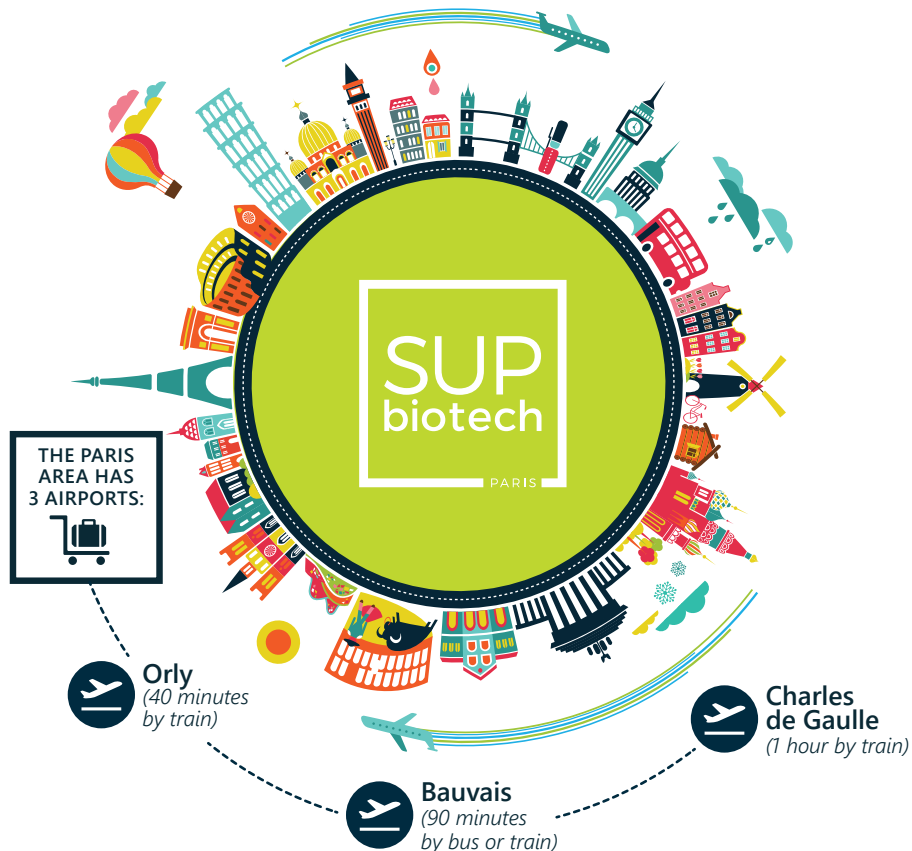


# LIVE IN PARIS... STUDY IN ENGLISH!



## LIVE IN PARIS: TRAVEL THROUGHOUT FRANCE AND EUROPE

From Paris, you can fly anywhere in France in under 90 minutes. Outside Paris, there's no shortage of sights to explore: the historic abbey of Mont Saint-Michel, the chateaux of the Loire valley, the European Parliament, and the limestone cliffs of Marseille are easily accessible by bus or train. The French national rail system (SNCF) offers discounted fares to those under age 25. To explore the rest of Europe: Travel with Eurolines Buses or by train, with the InterRail Pass. Purchase inexpensive air tickets on Ryanair, easyJet, Transavia, Vueling or Air Berlin.



## PARIS

*Ranked as the world's best city for students, in the QS Best Student Cities Survey 2016.*

More than



international students

More than



museums

Students under age 26 receive discounts at museums and tourist attractions as well as many exhibitions.

Events year round: the Techno Parade music festival, the *Nuit Blanche* nighttime arts festival, the French Open tennis tournament, the Rock en Seine Festival, hosting the UEFA Euro 2016 and much more!

### SUP'BIOTECH IS LOCATED:

- Twenty minutes from downtown Paris
- One hour from Disneyland Paris and the Parc Astérix
- One hour from the Palace of Versailles

# STUDY AT SUP'BIOTECH: BECOME A BIOTECHNOLOGY EXPERT

Sup'Biotech is a private biotechnology engineering school in Paris, France. We are part of IONIS Education Group, France's largest network of private higher education institutions. At Sup'Biotech, classes are taught entirely in English from the third year of the Bachelor's program through the end of the Graduate program.

Sup'Biotech's curriculum is a multidisciplinary balance between science and engineering coursework (lectures, practical laboratory work and projects), management skills and industrial know-how. Our graduates are prepared for a wide range of responsibilities in the biotechnology sector or with international corporations, working in the fields of health, pharmaceuticals, cosmetics, the environment and agribusiness.



Number of Professors



57

Number of Researchers



7

Number of Students



577

Number of Alumni



477

Number of Labs



7

Number of International Partners



50

Number of Administrative staff



26

## SIX REASONS TO ATTEND SUP'BIOTECH

**# 1**

No language barrier: English-language program in France

**# 2**

Internships: a minimum of 12 months in real-world settings

**# 3**

Innovation projects: in-depth, authentic, hands-on experience

**# 4**

Options: our graduates have access to a wide range of careers

**# 5**

High-quality instruction: Sup'Biotech's courses are innovative and practical

**# 6**

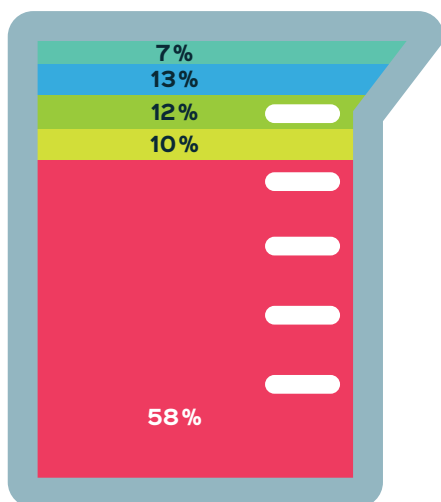
Discovery: experience a new culture and a new way of life while studying abroad!

# AT A GLANCE



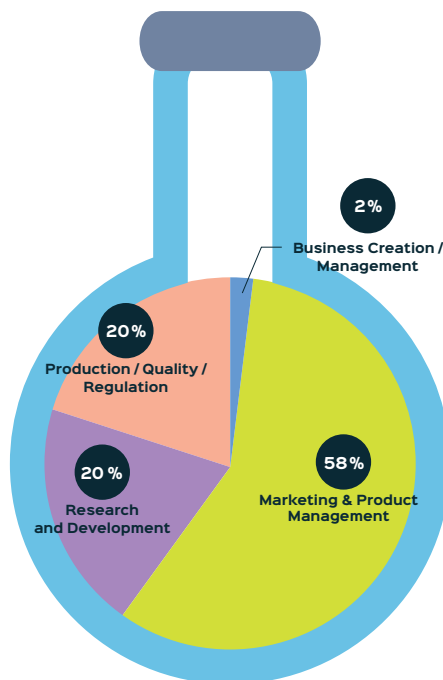
## SUP'BIOTECH GRADUATES CLASS OF 2015

\* May 2016 datas



- Health/Pharma
- Agri-food
- Biotechnology multi-sectors\*
- Environment
- Cosmetics

\* Companies working across at least two biotechnology sectors (ex: agri-food and cosmetics)



are pursuing careers



**30%**  
are continuing  
their education

(Doctorate or specialized Master's)

90%



of our students found  
their 1<sup>st</sup> job in **less than 6**  
months



**5%** work outside France

Average  
compensation  
in first job



32,000 euros

**50%**

have signed an employment  
contract **before the end**  
of their studies





# INTERNATIONAL

General Biology\* / Biochemistry\* / Molecular Biology\* / Developmental Biology\* / Microbiology\* / Physiology\* / Biophysics / Cell Biology / Cell Culture / Immunology / Molecular Biology of Plants / Industrial Microbiology / Bacteriology

## LIFE SCIENCES

## CHEMISTRY

- Molecular Structure\*
- Thermochemistry\*
- Chemistry Kinetics\*
- Organic Chemistry\*
- Inorganic Chemistry\*
- Physicochemistry of solutions
- Spectroscopy
- Polymer Chemistry
- Colloids

## LABORATORIES

- Biology
- Biochemistry
- Chemistry\*

## MATHEMATICS\*

- Algebra
- Analysis
- Statistics
- Biostatistics

## COMPUTING SCIENCES

Microsoft Office\* / UNIX\* / Algorithms\* / Programming\* / Biological Databanks / Sequence Analysis / Determination of Secondary / Structures in Proteins

## ELECTIVES (3<sup>rd</sup> YEAR)

- R&D
- BioProduction
- Marketing

## GENERAL CULTURE

- Humanities
- Epistemology\*
- Economics
- French as a foreign Language
- English

## PHYSICS\*

- Matter and Energy
- Thermodynamics
- Optics
- Waves
- Mechanics
- Electricity
- Electromagnetism
- Electrokinetics
- Electronics

## CORE CURRICULUM UNDERGRADUATE

\* Taught in French



# L CURRICULUM



**R&D :** Stem Cells: Human Genetics, Molecular Self-assembly in vivo & in vitro, Physicochemistry of biological molecules, Crystallography, Research valorization and Technology Transfer, Virology, Integrative Biology, Advanced Genomics, Robotics, Applied Cross-disciplinary Project

**MARKETING :** Marketing, Communication Sciences, Industrial Economics, Innovative Marketing, Negotiation Techniques, Sales Force Management, Financial Management, International Trade & Marketing, Strategy, Applied Cross-disciplinary Project

**BIOPRODUCTION :** Production systems, Production Control, Quality Logistics, Choice of Materials & Processes, Bio-processes, Lean Management, Applied Cross-disciplinary Project

**HEALTH :** AN/Drug Interactions, Combinatorial Chemistry, Molecules to Drugs, Angiogenesis, Oncology, Gene Therapy, Clinical Trials, Neurobiology

**FOOD :** Food Microbiology, Nutrition, Sensorial Analysis, Food Process, Food Conservation, Tracability, Innovation in Food Processes

**ENVIRONMENT :** Water Cycle, Soil and Water Microbiology, Environmental Management, Risks Management, International Management of Environment, Pollution and Bioremediation

**COSMETICS :** Formulation , Regulation, Biology of Aging, Sensorial Analysis Reconstituted Skins, Raw Materials & Regulations

**BIO-INFORMATICS :** Advanced Biostatistics, Imagery

**ENTREPRENEURSHIP :** Desk Research & Market Survey, Business Models in innovation, Funding, Fundraising, Marketing Plan, Pitch

Genetics Engineering / Pharmacology  
Toxicology / Membrane Systems / Protein  
Engineering / Nanobiotechnologies /  
Advanced Immunology

**SCIENCES**

**CHEMISTRY  
& PHYSICS**

- Organic Synthesis
- Green Chemistry
- Analytic Physico-Chemistry
- Combinative Chemistry
- Green Tech

**COMPUTING  
SCIENCES**

- Molecular Modeling
- Applied Genomics
- Conception of Databases
- Drug Discovery

**CORE  
CURRICULUM  
GRADUATE**

**MAJORS:  
CHOOSE ONE**

**MINORS:  
CHOOSE ONE**

**MANAGEMENT**

- Project Management
- Finances
- Law
- Patents
- Competitive Intelligence
- International Management
- Geopolitical Issues
- Competitive Intelligence
- French Laws



# COMPANY

## Hamac

"Hamac/Génération Plume designs, produces and markets washable baby diapers and washable underwear for adults with incontinence. Our startup has had four Sup'Biotech students as interns. What sets them apart from other students is their strong entrepreneurial drive; they are extremely self-directed and quickly learn new tasks while also trying to find their own solutions to our challenges. Sup'Biotech offers excellent programs in engineering and project management. In addition to the interns we've had, we have also hired Sup'Biotech students as logistics chain managers."

Florence Hallouin > Founder and CEO

## BIO-RAD

"Bio-Rad Laboratories is a world leader in manufacturing reagents and materials and providing services for the biological research and medical diagnosis sectors. I especially appreciated our most recent intern's technical skills and interpersonal qualities. Sup'Biotech clearly offers a balanced curriculum, combining projects, lectures, guided work, independent work, internships and group work: students begin their internships with a solid knowledge base and the ability to adapt to the private sector. Depending on our future projects and needs, we may take additional interns from Sup'Biotech."

Marion Desmonet > Research and Development Project Director

*Sup'Biotech offers excellent programs in engineering and project management.*

*"I also see that Sup'Biotech students are heavily involved in applied research, which is very appealing for a startup."*



"Glowee uses bioluminescence to develop bio-powered lighting systems that consume no electricity and emit no pollution. Sup'Biotech students' training is much more professionalized than other schools'; the number of internships that Sup'Biotech students complete is particularly impressive. I also see that Sup'Biotech students are heavily involved in applied research, which is very appealing for a startup..."

Sandra Rey > Co-Founder Glowee

## TONGUE Lab

"Tongue Laboratory develops and markets a medical device to treat the root causes of respiratory-based sleep disturbances and dental malocclusions. Sup'Biotech students' training gives them a solid foundation in and awareness of life and health sciences, along with the ability to research and understand medical information. Their foundation in marketing allows them to translate scientific concepts into language that the general public can understand."

J.M. Mauclaire > President



# TESTIMONIALS



"Smith & Nephew develops and sells next-generation, innovative medical and surgical equipment that helps health professionals treat patients more effectively. Sup'Biotech's two-pronged approach, combining science and marketing, provides students with the critical thinking skills that they need to review clinical studies. The numerous case studies that these students work on allow them to adapt quickly to a work environment. We have already taken three Sup'Biotech interns, and look forward to taking more students in the future."

Perrine Gilles > Product Director



"Elan Edelman is a strategic influence consulting firm specializing in health communications. Since 2011, we have had Sup'Biotech students as interns every year. We have been very satisfied with their work and with their commitment to our projects. We are in regular contact with Sup'Biotech's Corporate Relations office to update our internship offerings. In addition to the interns we've worked with, we have also hired Sup'Biotech students as entry-level health consultants to work with our health communications team. Sup'Biotech's programs are highly scientific but also include communications and marketing components. The students' English skills are also excellent."

Valérie DOLLE > Senior Scientific Writer-Director of Health Consulting

*Over the past two years, we have had three Sup'Biotech interns, and they were all excellent.*



"Aïny, a natural and organic cosmetics laboratory, has had many Sup'Biotech students as interns. The students selected for these internships are rigorous, open-minded, committed to our brand's values and have excellent interpersonal skills. Sup'Biotech's programs combine academic and scientific rigor with an important human component; these two qualities are essential to the companies hiring these interns and graduates."

Geneviève Joutard > Management Associate



"INSERM is the French National Institute of Health and Medical Research. We work in the biomedical sector, performing publicly-funded research. One of our missions is to train students in the research professions. This is where Sup'Biotech comes in, because it allows us to host interns during the fall semester, from September to December. Sup'Biotech's excellent reputation is also a guarantee that our teams will be working with a motivated student who will be a valued contributor to our research programs. Over the past two years, we have had three Sup'Biotech interns, and they were all excellent. They all participated very actively in designing and carrying out experimental protocols and in interpreting the results. The various internships that Sup'Biotech students complete undoubtedly foster a dynamic, positive outlook. Our institute has also benefited from the Sup'Biotech mindset, and we hope that our three interns will continue their excellent work in the future. Of course, we hope to continue this extremely positive experience; we're planning to host additional Sup'Biotech interns in our labs."

Michel Hamon > Team Leader

# THE SUP'BIOTECH INNOVATION PROJECTS (SBIP)



"ONE IDEA, ONE CONCEPT,  
ONE PROJECT"

Our SBIP program aims to help meet current or future needs in the world. The SBIP program's philosophy of innovation is centered on creativity, novelty and industrial usefulness, using project ideas submitted by students or biotechnology professionals. Our students develop their creativity and innovation by taking classes, working in teams, learning how to manage projects, working in the field, expanding their professional networks and gaining new perspectives on their future careers. The SBIP Lab: starting in their third year, students have access to the Sup'Biotech workshop where they can work on their proof of concept. In the SBIP workshop, students have a high level of technological freedom in a safe environment. This boosts our students' sense of responsibility, positive attitude, independence, critical mindset, pragmatism and a spirit of constructive thinking. Our Entrepreneurship program focuses on launching a business; it runs for 2 years : 4<sup>th</sup> and 5<sup>th</sup> years.



Food Industry

**RE'MAX** > *Developing a stress-reducing chewing gum*

*"The Re'max project is based on the concept of delivering nutritional supplements through chewing gum. Re'max contains active ingredients found in cocoa, combined with other natural active ingredients. This combination could produce a chewing gum with an immediate positive effect on well-being."*

M. Chhun, C. Courdavault, C. Essomba, S. Meroux  
(Sup'Biotech class of 2016)



Environment

**BIOROCKET PROJECT**

> *Using biomimicry to improve the design of a mini-rocket*

*"The BIOROCKET project is supported by students from Sup'Biotech and IPSA (an aeronautics engineering school). The aim of this joint venture is to remove barriers to aeronautics projects (drag, stability, mass, environmental impacts) by using nature's scalable adaptations. This collaboration will be formalized during a test flight."*

D.Colin, V.Joannou, A.Le Corre (Sup'Biotech classes of 2016 and 2017)



Health - Pharma

**VITILIGO**

*"Vitiligo is a skin depigmentation disease leading to irregular white blotches on some parts of the body. This project is based on using melanin transfer mechanisms found in zebra fish to pigment the skin."*

S.Kartigeyane, T.Mahiet, B.Piot & Z.Serhal (Sup'Biotech class of 2017)

## ENTREPRENEURSHIP PROGRAM: START UPS !



Aenydris is developing an innovative controlled release system, HIDRA™; for use in dermocosmetics. Initially created in Sup'Biotech's SBIP program, and now thanks to its own HIDRA™ technology, Aenydris is developing a new generation of permanent tattoo inks that are easily removable using its specific cream. This tattoo application and removal kit results in a simple, painless, uniform, fast and inexpensive tattoo removal, allowing a greater degree of consumer freedom.

# EXCHANGE STUDENTS & DEGREE PROGRAM STUDENTS



**Admission Requirements:** The Sup'Biotech international curriculum is open to international students from the third year of the Bachelor Program through the end of the Graduate Program.

(\*) Master's level equivalent

	UNDERGRADUATE BACHELOR IN BIOTECHNOLOGY	GRADUATE <i>Titre d'Expert en Ingénierie des Biotechnologies*</i>	
LEVEL	Biotech 3	Biotech 4	Biotech 5
LANGUAGE OF INSTRUCTION	English	English	English
LANGUAGE REQUIREMENT	English: IELTS 6.0 or TOEFL 70	English: IELTS 6.5 or TOEFL 80	English: IELTS 6.5 or TOEFL 80
DIPLOMA REQUIREMENT	Transfer students: - Second year of Bachelor of Science - Associate's Degree	Bachelor of Science from an English-speaking program	Bachelor of Science from an English-speaking program +1 year of Master Program or equivalent

## FEES

### NO FEES APPLIED FOR EXCHANGE STUDENTS

**Tuition:** 9,800€ per academic year

**Registration Fee:** 990€

**Orientation Fee:** 250€

**Social Security Fee:** 220€ (*see below for eligibility information*)

**Required fees:** 240€

(*Sports fees, Lab equipment, Lab coat, etc.*)

## VISA REQUIREMENTS

### If you are staying for one semester

You need a short-term student visa (Visa de long séjour temporaire pour études). This visa is valid for a maximum of six months and you do not need a French residence permit.

### If you are staying for more than one semester

You need a long-term student visa (Visa de long séjour pour études), which will allow you to apply for a residence permit. This is valid for one year and may be renewable.

## HEALTH INSURANCE

### If you are under 28 years old and a legal resident of a European Union country

You are not required to register with the student social security system if you hold a European Health Insurance Card (EHIC) issued in your country of origin and valid for the entire academic year.

### If you are under 28 years old and not a resident of the European Union

You must enroll in the student Social Security system.



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Sup'Biotech is a member of IONIS Group

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, IONISx, IONIS 361

[www.ionis-group.com](http://www.ionis-group.com)

[www.supbiotech.fr/en](http://www.supbiotech.fr/en)