

Pharmaceutics

Food Industry

Cosmetics

Environment

HIGHER EDUCATION IN SCIENCE, ENGINEERING
AND MANAGEMENT FOR BIO-INDUSTRY



PASSION & CAREER

Ingénieurs
Bio-industries

HIGHER EDUCATION IN SCIENCE, ENGINEERING AND MANAGEMENT FOR BIO-INDUSTRY

EBI at a Glance

Ecole de Biologie Industrielle (EBI) is a private institution of higher education accredited by the French National Commission on Engineering Degrees (CTI) to award the prestigious Diplôme d'Ingénieur, a degree equivalent to the Master of Science and Engineering. Founded in 1992 in close collaboration with leading French industrialists aware of a growing need for highly qualified professionals in various sectors of bio-industry, EBI continues to rely upon the combined expertise of its academics and industrial partners to drive curriculum development and institutional strategy. The largest higher education institution of its kind in France today, EBI pursues the mission of training future scientists, engineers and managers for the cosmetics, pharmaceutical, food and environment industries.

Work Experience

Gaining substantial work experience in a professional environment is an integral part of the program at EBI: students carry out 3 to 5 internships in companies and/or research labs, at least one of which in a foreign country (13 months in all on average).

Fundamental Sciences (120 ECTS)	1 st year	Optional Internship
	2 nd year	Compulsory Internship: 1-3 months
Applied Biology and Engineering (min. 180 ECTS)	3 rd year	Compulsory Internship: 1-3 months
	4 th year	Optional Internship
	5 th year	Compulsory Internship: 6 months

Program Overview

EBI's five-year undergraduate and graduate degree program is divided into two "cycles": a two-year "preparatory" course devoted largely to the study of biology, mathematics, physics and chemistry, and a three-year "engineering" course focusing on industrial biology, engineering techniques, extensive project work, management skills and career orientation. In their fourth year, students choose one of the majors presented below, along with a selection of minor subjects in other disciplines. A period of cultural immersion abroad, proven proficiency in English, and the study of at least one other foreign language are among the other requirements for graduation.



Research & Development Major

- Formulation
- Applied Biotechnology
- Cell Culture
- Alternative Toxicology
- Human Physiology
- Business Creation and Innovation Management

Processing & Production Major

- Transfer Unit Operations
- Mechanical Unit Operations
- Process Engineering
- Extrapolation and Modeling of Processes
- Logistics
- Automatic Regulation

Quality & Regulatory Major

- Quality Management
- Risk Management, industrial Safety, Environment
- Regulatory and Marketing Issues
- GLP/GMP
- Validation - Metrology
- Statistical Methods of Quality Assurance

Marketing & Management Major

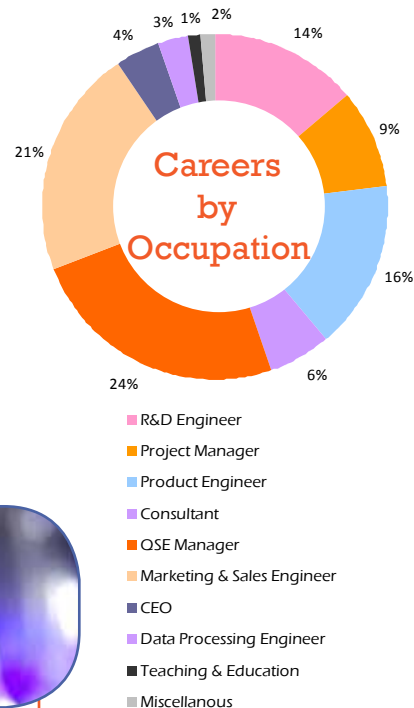
- Operational Marketing for Product Managers
- Consumer Behavior, Marketing Communication
- Product Launch
- Industrial Marketing
- Industrial Purchasing and Negotiation Techniques
- Financial Management, Operational Management



Faculty and Research

Within the framework of their supervisory, consulting and research activities at EBI, full-time faculty members collaborate closely with industrial partners, fellow academics and professional organizations in France and abroad, providing expertise in their fields of competence:

- Cosmetics, Pharmaceuticals, Food Industry: formulation and evaluation of products (sensorial analysis, shelf life assessment, etc.), fermentation processes for new products
- Molecular Biology & Pharmaceuticals: gene therapy, cellular therapy
- Bioprocesses: bioprocess optimization
- Environment & Remediation: risk management, biodegradation of OVCs, erosion and coastal management (fluid mechanics)



Key Figures

- 700 students - 130 graduates per year
- 5,000 total course hours
- 43 full-time faculty members, laboratory technicians and administrative staff
- 150 external lecturers (academics and industrialists)
- 5 research laboratories
- 4 student laboratories



International

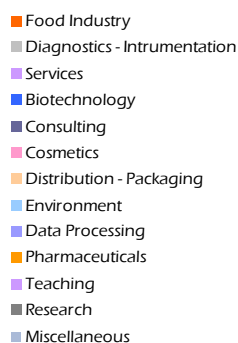
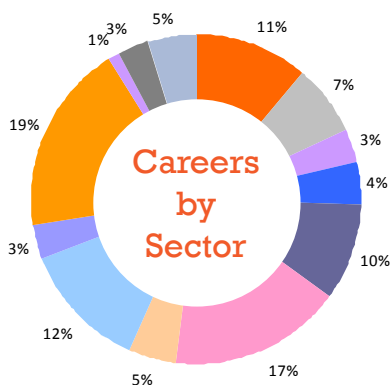
Facilitating and developing international student and faculty mobility is a top priority at EBI. Numerous exchange opportunities exist within the framework of the school's Erasmus charter accreditation and its bilateral agreements with foreign institutions of higher education:

Programs for international students at EBI

French-speaking students enroll for a semester or an academic year to follow a personalized program of study at BSc and/or MSc level. They also carry out internships in an EBI research & development lab or in companies in France or abroad. English-speaking students are hosted as interns.

Study abroad programs for EBI students

Many third and fifth-year students are selected to spend a semester or an academic year studying in a partner institution abroad.



Student Life

As part of the Institut Polytechnique Saint-Louis (IPSL), EBI shares a campus with four other independent higher education institutions, giving students the opportunity to benefit from a variety of pooled resources, cross-disciplinary courses and joint extracurricular activities.

The campus is set in Cergy, the second largest university town in the Paris region with 25,000 - of which several thousand international - students. A vibrant commercial and residential center offering a wide array of cultural, leisure, sports and entertainment facilities, Cergy also boasts extensive natural woodlands, landscaped riverbanks and a nearby regional park. Numerous student residence halls and eateries are situated in close proximity to the EBI campus.



Contacts

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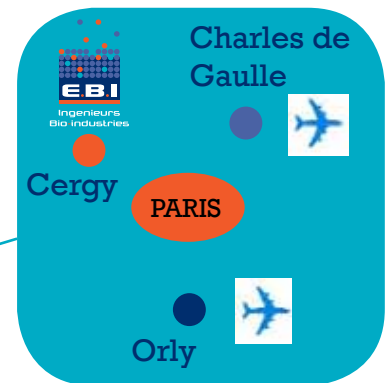
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Access

Located in CERGY in the northwest suburbs of Paris, EBI is easily accessible from Paris in 35 minutes via the "RER A" suburban express train (direction Cergy-le-Haut, station Cergy-Préfecture -- see our website for the route from the station to EBI).



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