
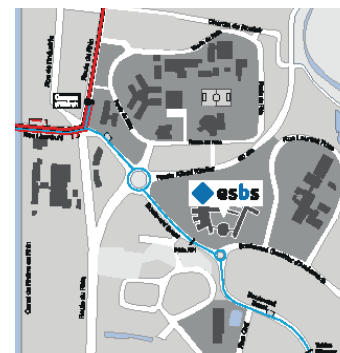


# Engineering degree in Biotechnology

Biotechnology uses biological systems and living organisms to make or modify products.  
It is based on advanced scientific knowledge in biology and engineering.  
Biotechnology has numerous fields of application :



	École supérieure		
	de <b>biotechnologie</b> de Strasbourg		
Université de Strasbourg			



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esbs.unistra.fr

ESBS students are educated to deal with multicultural experiences.  
As a HR responsible, I can say: ESBS students are trained to be problem solvers and solutions finders."  
**Christian Döhrring**, Head training and development at Synthes GmbH, Switzerland

I am very proud of the ESBS because it is a sort of material achievement - research is often non material.  
It provides to its students the chance to use their brains to improve life for mankind."  
**Pr. Pierre Chambon**, Co-founder of the ESBS

It was time for a change and I became aware of a new European master's degree programme in biotechnology in Strasbourg. Enrolling there was one of the game-changing decisions in my life.  
Pr. Dr. **Claus Schwechheimer**, Chair of Plant Systems Biology, University of Munich, Germany



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## Be trained for tomorrow's biotechnologies

Molecular and cellular biology | Bioengineering  
Bioproduction | High throughput biotechnology  
Biotechnology of the environment | Microbiology  
Genetics | Molecular and cellular engineering | Synthetic biology | Human, social and economic training



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**The Ecole Supérieure de Biotechnologie de Strasbourg** is a public Engineering school, part of University of Strasbourg. It welcomes French and foreign students (holding at least 120 ECTS) for a 3-year training. This engineering program in biotechnology takes place in a multicultural and multilingual environment.

The teaching relies on the skills of the teachers, researchers and engineers **from our three partner universities as well as from our associated research center (bsc).**



The “Bio-engineer” education is based on a solid culture of basic sciences, engineering sciences, languages, as well as economic, social and human subjects. Our multi-disciplinary program results from the complementary partnership of our three centers : Basel, Freiburg and Strasbourg.

**ESBS offers an exceptional environment for studies.** Ideally located **at the heart of the upper Rhine Valley region**, the school benefits from a scientific and multicultural environment in particular thanks to the presence of cutting - edge laboratories and industries (Evolva, Roch, Merck Millipore, Sanofi, Transgène, Novartis, Lilly).

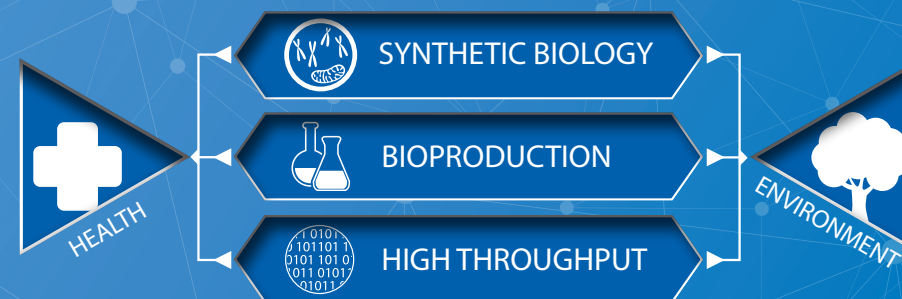
**100 % of our graduates find their first job in less than 6 months!**

#### Students and alumni associations at ESBS

- ▶ **ESBS Students Club** - [www.amicaleesbs.eu](http://www.amicaleesbs.eu)  
Integration week-end, Inter Agros, ESBS-Telecom Physique Strasbourg gala
- ▶ **N.G.B. - New Generation of Biotechnologists** - [www.ngb-france.org](http://www.ngb-france.org)  
Scientific events, international forums
- ▶ **A.A.E. - Alumni Association** - [www.esbsalumni.com](http://www.esbsalumni.com)  
Career and internship opportunities, ESBS promotion



#### Cutting-edge technologies applied in two sectors of industry :



#### Distribution of graduates per job function and business sector:

Industrial sector	Job Function	Technological field	Localization
<ul style="list-style-type: none"> <li>Pharmaceutical industry</li> <li>Health</li> <li>Agrifood sector</li> <li>Environment</li> </ul>	<ul style="list-style-type: none"> <li>Engineer</li> <li>Researcher</li> <li>Project Manager</li> </ul>	<ul style="list-style-type: none"> <li>R&amp;D</li> <li>Academic research</li> <li>Management</li> <li>Production</li> <li>Quality</li> </ul>	<ul style="list-style-type: none"> <li>France 40%</li> <li>Abroad 60%</li> </ul>

**The biotechnology study program at ESBS lasts three years.** Most courses are held in Strasbourg, yet some theoretical courses, practicals and projects also take place in Basel and Freiburg. Courses and examinations are mainly in English.

#### Year 1 Scientific common basis and practical training

##### Semester 1

3 weeks of intensive training (english, german)  
2 weeks of practical training

##### Semester 2

4 weeks of practical training

#### Year 2 Biotechnology basics - introduction to technological sectors

##### Semester 3

Advanced biotechnologies, Engineering sciences and Humanities, Economy & Social sciences

##### Semester 4

3 weeks in Basel + 7 weeks in Freiburg  
3 weeks of specialized projects in Strasbourg, Basel, Freiburg

#### Year 3 Elective courses : technological fields and industrial sector - Projects and internships

##### Semester 5

Specialized biotechnologies  
5 weeks of projects in Strasbourg, Basel, Freiburg

##### Semester 6

6 months full-time internship (February to August)

#### Internships

14 compulsory weeks within a company to be achieved in 1st or in 2nd year, with at least 8 weeks during 1st year.  
6 months end-of-studies internship.

#### ADMISSION IN 1<sup>st</sup> YEAR :

**Students holding at least 120 ECTS:** application + interview (10 - 15 vacancies)

**Students coming from Freiburg University or Basel University:** recrutement done locally by the partner universities (15 à 20 vacancies)

#### ADMISSION IN 2<sup>nd</sup> YEAR :

**Students must hold 240 ECTS (Master 1 level), B1 level in German / French and B1 level in English:** application + interview (If vacancies)

**On line application : <http://esbs-unistra.fr>**  
(From end of February, beginning of March)

