L'École des Bio-Industries & des Biotechnologies

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Internship Opportunity at EBI, France 2026 – 2027

AI developer Intern for Instrumental and Sensory Analysis in cosmetics (F/M)

Key Information

• Cergy, France **Location**	• Master's student (first year completed or equivalent) **Educaiton Level**	• Preferred/ Not Required • Python programming **Required Experience**	• Feburary to July 2027 **Dates**	• 6 months **Duration**
• 35 hours per week **Working hours**	• Internship Agreement **Contract Type**	• Compensation according to current French internship regulations **Internship allowance**	• On site with occasional remote work **Work arrangement**	

EBI
49, avenue des Genottes - CS 90009 - 95895 CERGY cedex
Tél.: +33 (1) 85 76 66 90 - ebi@ebi-edu.com - www.ebi-edu.com

Établissement d'Enseignement Supérieur Technique Privé reconnu par l'État - Certifié ISO 9001
Diplôme reconnu par la Commission des Titres d'Ingénieur - Membre de la Conférence des Grandes Écoles - Association à but non lucratif (loi 1901)
SIRET : 388 591 638 00035 - APE : 8542 Z - IBAN : FR76 3000 3035 3700 0500 0110 363 - BIC : SOGEFRPP

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Host Institution : EBI

Founded in 1992, EBI – École de Biologie Industrielle is an engineering school specializing in biology. It trains engineers and assistant engineers for the cosmetics, pharmaceutical, food, biotechnology, and environmental sectors.

Combining higher education, professional training, and research, EBI offers a close-knit learning and working environment on its campus in Cergy, France. It brings together 825 students, 60 permanent staff members, and more than 150 external lecturers and industry experts.

The 6,000 m^2 campus houses a technological platform comprising 11 laboratories covering disciplines including:

- Chemistry
- Analytical Sciences
- Process Engineering
- Formulation
- Microbiology & Microbiology Research
- Molecular Biology Research
- Biology
- Cell Culture

Two dedicated panels, Sensory and Phood, further support the activities of EBInnov®, the school's research unit.

Recognized for its expertise in sensory analysis and the characterization of food, cosmetic, and pharmaceutical products, EBI is developing an innovative software platform to identify correlations between instrumental measurements and sensory perception.

Position & Responsibilities

INTERSHIP OVERVIEW

As part of the EBInnov® Research and Development team, you will contribute to the development of an innovative software platform aimed at transforming complex instrumental data into actionable sensory predictions for cosmetics professionals.

You will contribute to the migration and industrialization of algorithms currently developed in R into a modern Python environment. These tools include advanced data visualization, multivariate analysis, unsupervised classification methods, variable selection techniques, and predictive modelling approaches such as machine learning and symbolic regression.

You will also participate in integrating these analytical tools into an existing API and developing a user-friendly interface that enables researchers, formulation scientists, and innovation managers within the cosmetics industry to efficiently use the platform.

Beyond software development, you will contribute to projects involving:

- Experimental data valorisation
- Workflow automation
- Integration of artificial intelligence methods applied to real industrial challenges within the recognized research laboratory UPR EBInnov®.

You will collaborate closely with specialists in:

- Sensory science
- Cosmetic formulation
- Data science
- Software engineering

within an environment that combines applied research and industrial innovation.

What you will gain :

- Hands-on experience in AI and data science solution development.
- Expertise in modern Python development tools, APIs, scientific application deployment, and data visualization.
- A unique profile at the intersection of artificial intelligence, experimental data, and sensory science.
- Exposure to the cosmetic innovation ecosystem and its industrial challenges.
- The opportunity to contribute to a software platform intended for use by companies within the cosmetics sector.

Valuable experience for future careers in R&D, data science, machine learning, or software development applied to life sciences.

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CANDIDATE PROFILE

We are looking for a final-year engineering student or Master's student specializing in:

- Computer Science
- Data Science
- Artificial Intelligence
- Digital Technologies

You have strong Python programming skills and a keen interest in extracting value from scientific data. Previous experience in data analysis, machine learning, or web development would be appreciated.

Knowledge of one or more of the following areas would be a plus:

- Python (scikit-learn, pandas, matplotlib, plotly)
- API development
- Front-end development (React, Vue.js, or equivalent)
- SQL or NoSQL databases
- Docker and deployment environments
- Git and collaborative development methodologies [Propositio...SA 2026-27 | PDF]

Scientific curiosity, autonomy, and enthusiasm for working on an innovative project with strong industrial impact are highly valued.

Practical Details

- Duration: 6 months (february to july 2027)
- Working schedule: 35h per week
- Location : Ecole des Bioindustries et des Biotechnologies, Cergy (France)
- Compensation according to current French internship regulations

Supervision and Learning

- Dr. Sylvia Imbart, Head of the Biology Axis and Professor in Biology and Rheology
- Dr. Marc Lavarde, Head of Research Axis PRECISE and Sensory Panel

Application Process

Please send your application (CV and motivation letter) to **s.imbart@ebi-edu.com.**

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ISO 9001 BUREAU VERITAS Certification

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