

MASTER 2 INTERNSHIP OFFER

URD ABI – AgroParisTech

Duration: 6 months (March 2025 – September 2025)

Biostimulant agents production through solid state fermentation

Host laboratory:

Located in the Center for Biotechnology and Bioeconomy (CEBB), at the heart of the Pomacle-Bazancourt biorefinery, the URD ABI (Unit of Research & Development in Industrial Agro-Biotechnologies) is interested in the valorization of biomass through an approach combining biotechnologies, green chemistry and process engineering. Thanks to its expertise in chemistry, polymers/materials, microbiology/biochemistry/molecular biology, chemical engineering and separation process engineering as well as in analytical chemistry, the URD ABI is able to carry out multi- and transdisciplinary fundamental and applied research projects with the ambition of developing and optimizing sustainable industrial processes and high value-added products from agro-resources and industrial by-products.

Context and objectives:

Driven by an ever-growing awareness of the public opinion regarding environmental issues and resource management, a special attention is given to the search of alternative agricultural inputs through biotechnological ways. The internship aims at producing biostimulant agents through solid-state fermentation using fungi grown on an agro-industrial byproduct: the cocoa shell.

The key objectives are:

- Isolation and building of bank of strains
- Screening and selection of strains
- Optimization of the fermentation conditions
- Characterization of the obtained product through analytical chemistry
- Analysis of the results and redaction of a report
- Work at the interface of the biotechnology and analytical chemistry teams

The selected candidate will have skills in biotechnology (microbial cultures), a strong inclination towards lab work and will integrate easily into a multidisciplinary dynamic team.

Candidate profile:

- Master-level student (M2) in biotechnology
- Rigorous, motivated, autonomous with a good adaptability

Location:

Center for Biotechnology and Bioeconomy, 3 Rue des Rouges-Terres, Pomacle (51110), France, located at 15 km from Reims (having a vehicle is recommended).

Grant:

According to the current scale

To apply, please send a CV and a cover letter to quentin.carboue@agroparistech.fr and esther.lutete@ecoa-greentech.com