EXTRACTION AND PURIFICATION OF AROMAS COMPOUNDS FROM PLANT BIOMASS

Internship position from February-Mars 2024- 6 months

Located in the European Center of Biotechnology & Bioeconomy (CEBB, Pomacle, France), the Industrial Agro-Biotechnologies Research and Development Unit from AgroParisTech (URD ABI) has for primary vocation to develop new biotechnological processes (enzymatic, green chemistry) from biobased building blocks and to demonstrate their feasibility at the laboratory scale. The research activities currently underway within the laboratory deal with both the development of new materials/bio-based polymers from renewable building blocks, and the production of higher added value molecules (e.g., cosmetic and pharmaceutical industries) from biorefinery by-products.

Within the framework of a project in collaboration with Nestlé Research and Development department, we are hiring an intern that will join the URD ABI team and will be entrusted with the development and optimization of a process to extract aromas compounds from plant biomass. As part of this project, the recruited intern will have to:

- Bibliographic synthesis on the subject
- Develop and optimize process for the extraction of aromas and phenolic compounds from plant biomass
- Develop analytical methods to identify and quantify the extracted biomolecules (GC-MS, HPLC…)
- Data processing and analysis
- Analysis of results and report writing

Profile: The candidate should be Master level student (M2) or equivalent in the field of process engineering or chemistry. The candidate is required to demonstrate proficiency in:

- Skills related to extraction and purification processes for biomolecules
- Analytical chemistry skills
- A rigorous, curious, and autonomous approach to learning
- Professional competency in English

Location : CEBB, 3 rue des Rouges Terres, 51110, POMACLE

Contact: To apply, please send your application (CV and covering letter) to Dr Morad Chadni (morad.chadni@agroparistech.fr), Dr Sophie MOUZON (Sophie.Mouzon@waters.nestle.com) and Dr Vakare Merkyte (vakare.merkyte@waters.nestle.com)