

Engineer position in Biotechnology - 12 months

Scale-up of the production and purification of a high molecular weight adenosine-based coenzyme

URD Industrial Agro-Biotechnologies (URD ABI) - AgroParisTech
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Located in the European Center of Biotechnology & Bioeconomy (CEBB, Pomacle, France), the Industrial Agro-Biotechnologies Research and Development Unit from AgroParisTech (aka URD ABI) has for primary vocation to develop new sustainable biotechnological processes (enzymatic, green chemistry) from bio-based building blocks and to demonstrate their feasibility at the laboratory scale. The research activities currently underway within the laboratory deal with the development of higher added value molecules (flavors and fragrances, recombinant enzymes, dyes, pharmaceutical intermediates, anti-UV, anti-bacterial, anti-fungal) from biorefinery by-products or from microorganisms (bacteria, yeast, fungi).

The CoAlition project aims to scale-up an innovative process for the biocatalytic production and purification of a high molecular weight adenosine-based coenzyme, thus making it possible to envisage its use in biocatalytic processes which are dependent on it for the production of natural molecules that have low bioavailability. Within the framework of this project funded by the SATT Paris-Saclay, we are hiring an engineer that will join the URD ABI who will be entrusted with the:

- Scale-up the recombinant enzymes implemented in the production process
- Scale up the coenzyme's production up to 10 Liters scale
- Scale up the coenzyme's purification up to 50-100 grams batches
- Redaction of reports and publications
- Presentation of results

Profile:

The candidate should have a Master degree in the field of biotechnology, as well as skills in downstream processing and process engineering (*e.g.* reaction scale-up). The candidate will have to demonstrate an appetite for innovative transdisciplinary projects and have an entrepreneurial spirit. The position could be extended.

Position required from March 2024 for a period of 12 months.

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