

A 24 MONTH POST-DOCTORAL POSITION IN ENZYME/METABOLIC ENGINEERING @ TBI, TOULOUSE, FRANCE

ENVIRONMENT

A Post-doctoral position is available at the **Toulouse Biotechnology Institute** (TBI) located on the grounds of the INSA-Toulouse (France). The laboratory is affiliated to the French National Centre for Scientific Research (CNRS, UMR INSA-CNRS 5504) and the French National Institute for Agricultural Research (INRA, UMR INSA-INRA 792). TBI is an interdisciplinary research laboratory of 350 people that develops its research activity at the interface between life sciences and process sciences. It carries out an excellent research with economic and societal relevance in the field of catalysis and enzyme engineering, systemic and synthetic biology, fermentation, process engineering and eco design (<https://www.toulouse-biotechnology-institute.fr/en/>). The candidate will work in the Enzyme Catalysis and Molecular Engineering team that holds a strong expertise in enzyme engineering and synthetic biology.

JOB DESCRIPTION

The successful candidate will be part of a research project aiming at **developing novel biological routes involving enzyme and metabolic engineering to produce tailored lipids for biotechnological applications**. Yeast strains of first generation producing original fatty acids have already been developed in the lab. The project will aim at (1) designing efficient enzymes and micro-organisms to improve the production of valuable synthons (2) expanding fundamental knowledge both on enzymes involved in the modification of lipids and on lipid metabolism of a yeast of biotechnological interest.

The candidate will work in close collaboration with other researchers of the team. He/She will be involved in the metabolic engineering and enzyme engineering, construction of strains, development of screening protocols, and biochemical and analytical characterization. He/she will benefit from a multidisciplinary environment with access to High-Throughput Screening and analytical equipment. He/she will also have frequent and strong interactions with other scientists involved in computational enzyme design and modelling. He/she will be based at TBI, Toulouse (31), France.

QUALIFICATIONS

We are searching for an enthusiastic scientist with a **PhD in Biochemistry, Biochemical engineering, Molecular Biology, or related field. Experience with metabolic engineering and recent yeast genetic engineering techniques, and in microbial cultivation** would be an asset. He/She will need to be able to conduct independent research, plan and execute experiments, write research reports, and have strong communication skills. Good English skills are required and notions of French language would be a plus.

The position is available from **September 2023 for a duration of up to 24 months**.

Applicants should send as soon as possible CV, summary of previous research and contact addresses of two references to:

Florence Bordes: Florence.bordes@insa-toulouse.fr

Isabelle André: Isabelle.andre@insa-toulouse.fr