

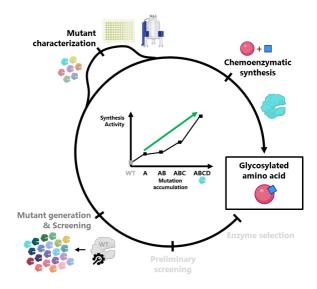
## **ENZYME-BASED CATALYSIS**

Subsite mapping of the transglycosylation/hydrolysis partition in glycoside hydrolases: Application to enzymatic synthesis of glycosylated amino acids

## Master's (M2) Thesis/Final-Year Engineering Internship at TBI (Toulouse, France)

The Toulouse Biotechnology Institute (TBI) is currently seeking to recruit a staff member to join a research project focused on enhancing the transglycosylation activity of a target enzyme through a semirational protein engineering approach. The student will be actively involved in protein production in E. coli, purification, and biochemical characterization of mutant enzymes.

This internship is part of a 2<sup>nd</sup> year PhD project and will take place within TBI's Biocatalysis Department, which has strong expertise in enzyme engineering.



**REQUIRED QUALIFICATIONS AND SKILLS:** Candidates (open to second-year Master's (M2) students or equivalent) should hold a Master 1 or equivalent degree in biochemistry, molecular biology or related subject, such as protein engineering.

**ACQUISITION OF NEW SKILLS:** The successful candidate can expect to acquire new skills in **molecular** biology (in vitro mutagenesis), protein production and purification techniques, and analytics (e.g. colorimetric assays and NMR).

**STARTING DATE:** January/February 2026.

**LENGTH/PERIOD:** 6 months (flexible to suit degree requirement).

**KEYWORDS:** Biocatalysis, Enzyme engineering, Structure/function relationships, Carbohydrates.

To APPLY: Send a CV and a cover letter to Daphné Gonnet (gonnet@insa-toulouse.fr) and Régis Fauré (regis.faure@insa-toulouse.fr).







