

## ENZYME-BASED CATALYSIS RESEARCH POSITION AVAILABLE IN TOULOUSE, FRANCE

18-MONTHS POSTDOCTORAL POSITION at Toulouse Biotechnology Institute - INSA Toulouse

The Toulouse Biotechnology Institute, Bio & Chemical Engineering (TBI, <http://www.toulouse-biotechnology-institute.fr>), is currently seeking to recruit a staff member to work on a research project focused on the design of molecular assemblies (i.e. fluorescent glycosylated hemicellulases) by both site-specific incorporation of non-canonical amino acid (ncAA) and bioorthogonal chemistry. These approaches will be used to investigate how glycosylation affects the relationship between substrate recognition and catalytic properties of hemicellulases. The successful candidate will hold a PhD or equivalent in biochemistry, applied biology or related subject, such as biological chemistry. A strong background in protein engineering or at least in recombinant DNA technologies or biological chemistry will be appreciated.

The successful candidate will work in Claire Dumon's group (Enzymes for Carbohydrates, E-Carb), which forms one component of the 60-strong Biocatalysis Department led by Magali Remaud-Siméon. The E-Carb group works on carbohydrate-active enzymes and uses state-of-the-art protein engineering technologies to design new enzymes for various innovative applications. The successful candidate will also work in the frame of a collaborative project and will benefit from access to the TBI's core facilities, such as ICEO (Engineering and Screening for Original Enzymes) platform.

### SKILLS AND KNOWLEDGE REQUIRED

Candidates should hold a PhD or equivalent in biochemistry, applied biology, chemical biology or a related area with hands on experience of protein engineering methods and/or bioorthogonal conjugation reactions, and be capable of conducting independent research, planning and executing experiments, preparing research reports, writing scientific papers etc. Some knowledge of the French language (or interest to learn the rudiments), would be also useful, but is not essential. However, non-French speakers should display a good command of English.

### KEYWORDS

Biocatalysis, molecular assemblies, fluorescent glycosylated hemicellulases, non-canonical amino-acid, bioorthogonal chemistry.

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## CONDITIONS

18 months length.

As early as the 1<sup>st</sup> June 2022.

The salary will be based on the pay scales of the employer, INRAE (French National Institute for Agriculture, Food and the Environment).

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## CONTACT

For more information or to apply, please contact: Régis Fauré

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