

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

### 24-MONTHS POSTDOCTORAL POSITION

The Toulouse Biotechnology Institute, Bio & Chemical Engineering (TBI, ex-LISBP), is currently seeking to recruit a staff member to work on a research project focused on both the design of artificial enzymes by genetic code expansion and the modification of canonical enzyme mechanism in order to perform glycosylation reactions using bioinorganic catalysis. The successful candidate will hold a PhD or equivalent in biochemistry, applied biology or related subject, such as biological chemistry. Moreover, since the project will involve the heterologous expression of enzymes with incorporation of non-canonical amino acid, candidates should have proven skills in protein engineering or at least in recombinant DNA technologies.

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 national collaborative project and will benefit from access to the TBI's core facilities (e.g. METATOUL and ICEO platforms, etc.).

### SALARY/STIPEND INFORMATION

The funding framework for this position is provided by the 3BCAR Carnot network. The salary will be based on the pay scales of the employer, INRAE (French National Institute for Agriculture, Food and the Environment).

### SKILLS AND KNOWLEDGE REQUIRED

Candidates should hold a PhD or equivalent in biochemistry, applied biology or a related area with hands on experience of protein engineering methods, and be capable of conducting independent research, planning and executing experiments, preparing research reports, writing scientific papers etc. Skills in (biological) chemistry would be useful. 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.

### POSITION STARTING DATE

As early as the 1<sup>st</sup> June 2021.

APPOINTMENT LENGTH/PERIOD

24 months.

KEYWORDS

Biocatalysis, artificial enzyme, non-canonical amino-acid, LPMO, glycosylation, carbohydrate.

CONTACT

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