Post-doctoral position in molecular modelling and design (Structural Bioinformatics), Toulouse, France

A Post-doctoral position is available in molecular modelling and computational protein design at the Toulouse Biotechnology Institute (TBI) located on the grounds of the INSA-Toulouse (France). The position is within the framework of a multidisciplinary project involving TBI, MIAT (Applied Mathematics and Computer Science) and LAAS (Laboratory for Analysis and Architecture of Systems) Labs, and financed by a worldwide company in agri-food. The project aims at designing optimized enzymes for biotechnological applications. The person hired will be in charge of conducting molecular modelling studies to get a better understanding of molecular determinants involved in activity and specificity of key enzymes for the development of the biotechnological process in the partner company. The objective will then be to develop rational approaches relying on innovative artificial-intelligence-based computational protein design to improve the enzyme specificity/activity. This work will be carried out in close collaboration with biochemists and enzyme engineers.

We are looking for a highly-motivated scientist with research experience in computational biology/bioinformatics, particularly in protein modelling and design. A biology background and a sound understanding of molecular interactions are required.

The candidate will have the opportunity to work in a rich multidisciplinary environment, surrounded by both computational and experimental experts in the field of enzyme catalysis, design and engineering. Applicants should enjoy teamwork and have very good communication skills.

Applicants should send as soon as possible their CV, cover letter and e-mail addresses of two referees to: sophie.barbe@insa-toulouse.fr, thomas.schiex@inrae.fr and juan.cortes@laas.fr