

Post-doctoral position in Synthetic Cell research

A Post-doctoral position is available at the Toulouse Biotechnology Institute ([TBI](#)) located on the grounds of the INSA-Toulouse, France. The laboratory is also affiliated to the French National Centre for Scientific Research (CNRS, UMR INSA-CNRS 5504) and the French National Research Institute for Agriculture, Food and Environment (INRAE, A Post-doctoral position is available at the Toulouse Biotechnology Institute (TBI) located on the grounds of the INSA-Toulouse, France. The laboratory is also affiliated to the French National Centre for Scientific Research (CNRS, UMR INSA-CNRS 5504) and the French National Research Institute for Agriculture, Food and Environment (INRAE, UMR INSA-INRAE 792). TBI is an interdisciplinary research laboratory of 350 people that develops its research activity at the interface between life sciences and process sciences, with focus on catalysis and enzyme engineering, synthetic biology, fermentation, process engineering and eco-design. The candidate will work in the Molecular and Metabolic Engineering team, in the group of [Christophe Danelon](#) that holds a strong expertise in synthetic cell research.

Job description

We are looking for a highly motivated scientist to work on a research project funded by the Toulouse White Biotechnology ([TWB/INRAE](#)). The project aims at developing synthetic cell factories through continuous evolution mechanisms. Key methods will include the production of lipid vesicle compartments, the design and implementation of synthetic gene circuits, cell-free gene expression, directed evolution, next generation DNA sequencing, and quantitative PCR. This work will be carried out in tight interaction with a PhD student in the lab.

Qualifications

The successful candidate must have a PhD degree in biomolecular engineering, synthetic biology or related fields. Moreover, expertise in cell-free systems, directed evolution, liposome production or protein/nucleic acid engineering is highly recommended. Strong communication skills and a good English level are required.

The position is available starting in May 2024 for a duration of up to 24 months.

Interested candidates should send an email to Christophe Danelon (danelon@insa-toulouse.fr) and attach a CV, a motivation letter, and at least two references.