



Call for a Post-Doctoral Fellowship of 12 months starting from April 1st 2016

A research Post-Doctoral Fellowship is open for a Doctor in the Joint research unit UMR 1318 Institut Jean-Pierre Bourgin, AgroParisTech-INRA, under the European Project ERA-IB LIGBIO "A Synthetic Biology approach for bacterial bioconversion of lignin into renewable chemicals" funded by the Horizon 2020 Programme. The Institut Jean-Pierre Bourgin is a multidisciplinary research unit of 350 persons dedicated to plant science and is member of the Excellence Network "Saclay Plant Science". One of its research areas is the understanding of plant cell-wall formation and properties and their impact on lignocellulose biorefinery processes. Within the "Plant cell-wall" division, the Apsynth team develops chemical and analytical strategies to investigate the reactivity of plant cell-wall phenolic compounds during biosynthesis or technical processes. The objective of the LIGBIO project is to use lignin as low-value substrate for the production of bio-based phenolic monomers of interest for the synthesis of biomaterials. The role of the team is to investigate the structural modifications generated by the bioconversion process in order to help understand the metabolism pathways of the engineered microorganisms.

Conditions for the application are the followings:

1. **Scientific Area:** Biology, biochemistry, analytical chemistry
2. **Admission requirements:** PhD one of the above fields and experience in mass spectrometry
3. **Preferential Experience:** experience in the structural investigation of phenolic compounds, experience in the investigation of microbial bioconversion products
4. **Work Plan:** Perform work in the workpackages of the LIGBIO project. 1. Development of analytical methods for the investigation of lignin microbial bioconversion; 2. investigation of lignin structural modifications induced by fermentation
5. **Work place:** The work will be carried out at the UMR 1318 Institut Jean-Pierre Bourgin in Versailles (FRANCE) in the team "Lignocellulosic biopolymers: from cell-wall assemblies to synthons for green chemistry" under the supervision of Prof. Stéphanie Baumberger (AgroParisTech).
6. **Fellowship Duration:** The fellowship, starting on 01.04.2016, will have duration of 12 months.
7. **Required Documents:** Motivation and presentation letter with indication of the call requirements; Copies of PhD and degree certificates; Curriculum Vitae.
8. **Application period:** The call will be open from January 15th to February 15th 2016

The application should be sent by e-mail to: stephanie.baumberger@versailles.inra.fr