



## **Junior Chair « Bois » E2S UPPA / CD40 (2019-2024)**

*« Development of wood, wood composites and natural fibers quality in relationship with agro industrials co products valorization »*

In the framework of the E2S UPPA project, the Landes Department Council and the Université de Pau et des Pays de l'Adour (UPPA) have decided to join forces to set up one junior chair focused on the development of wood and wood composites quality in association with wastes valorization of agro industries.

Research activities on wood and eco materials have been initiated in 2003 in Mont de Marsan. The permanent team is composed by two teacher - researchers, (one full professor and one associate professor) working at the Material Science Department, who are also members of the Institute of Analytical Sciences and Physico-Chemistry for Environment and Materials (IPREM). IPREM is a Joint Research Unit CNRS / UPPA (UMR 5254). Research activities are mainly focused on the enhancement of new renewable resins for wood industries (used as glue or varnish for example) and also on recycling of bio resources. Team skills are oriented on analytical chemistry, physic and biological properties measurement of raw materials (wood, natural fibers, phenolic and terpenic extractives etc..) and also transformed materials by various processes such as thermo pressure. Products developed in the laboratory are mainly focused on furniture and building markets. Research are applied, linked with industrial needs and also often organized in collaborative networks. The team works with industrial partners and particularly with Holiste, Gascogne wood, Ets Labadie and FP Bois.

Research in Mont de Marsan is supported by territorial communities and more particularly by the Landes Department which helps our laboratory since around fifteen years. This partnership is successful as evidenced by various national (Equipex, ADEME, FUI, AMI) and international projects (PHC) for a total financial amount of around 2 millions euros. The national network Xylomat has been created in 2010 and is managed by Pr Bertrand Charrier. One new laboratory (800 m<sup>2</sup>) will be built close to the University Mont de Marsan site in 2020. This new place will permit to develop research and technological transfer activities with wood and agro regional industries. Also we will create one new Master degree on bio ressources valorization with strong orientation on innovation and entrepreneurship.

Recruitment project is linked with one favorable economic activity. Wood, agro and green chemistry industries employs around 11000 peoples in the Landes Department. These sectors have globally one turnover progress of 20% since the last 10 years.

The recruitment of a young PhD candidate specialized in applied chemistry with good knowledge of physics and process engineering will permit to strengthen the existing team. The candidate will have around three years of post-doctoral research experience with one good level of scientific publications. The candidate will have to enhance original development of industrial biomass valorization. The research project will be linked with circular economy and technology transfer with industrial partnerships members of the group of public interest (GIP) Agrolandes. The candidate will have one doctorate diploma and



around three years of post doctoral position. He (she) will work in the scientific environment of IPREM located in Mont de Marsan and Pau.

The candidate will have to develop management, adaptability and communication skills, and also will have demonstrated good qualities of team-working.

Duration of the contract : 5 years

Salary : 28 200 euros net/year during three years and increase during the last two years.

### **Application procedure** :

Candidates must send, before 30<sup>th</sup> April 2019

Applications must be submitted via the online application portal only! <https://aap.e2s-uppa.eu>

**CAUTION! Applications received through any other mean will not be reviewed!**

#### **Required application documents:**

Applications should be written in English and submitted as **a single .pdf file**, in accordance with the following structure:

- a cover letter
- a curriculum vitae
- three to five references (name and contact email)
- statements of research (5 pages) and teaching interests (1 page)
- two representative publications

Preselected candidates will be invited for an oral interview by the selection committee

For detailed information you may contact Pr Bertrand CHARRIER email : [bertrand.charrier@univ-pau.fr](mailto:bertrand.charrier@univ-pau.fr)