

## RECRUITMENT

### Junior Research Associate in Polymers Synthesis

(Chargé de Recherche en Synthèse des Polymères)

**Keywords:** monomers, polymers, biomass, biocatalysis, green chemistry, sustainability, (bio)degradability

Chaire ABI of AgroParisTech (<http://www.chaire-abi-agroparistech.com>) located in the European Center of Biotechnology and Bioeconomy (CEBB, <http://www.cebb.innovation.eu>) at Pomacle (20 km from Reims, France) is looking for an enthusiastic and outstanding Junior Research Associate. The researcher will provide inspirational research excellence and leadership in the synthesis of sustainable polymers from biomass-derived molecules.

#### ABOUT CHAIRE ABI:

Chaire ABI is a research and teaching unit of AgroParisTech dedicated to the valorization of agro-resources and biorefineries byproducts, founding member of the CEBB and member of both IAR cluster and SFR Condorcet. With expertise in white biotechnologies, green chemistry and process engineering, the team works on multi-disciplinary research projects aiming at the development of new industrial processes allowing integrating the transformation of byproducts of agriculture into high value added chemicals such as biopolymers, fine chemicals, functional additives or cosmetics.

#### MISSION:

The successful candidate will join our very dynamic and well-equipped research group. Within our “Green Chemistry – Polymers/Materials” team, the successful candidate will work on the synthesis of bio-based monomers, their polymerization and the characterization of the resulting polymers.

The candidate will also supervise undergraduate, graduate students and post-docs and work in close collaboration not only with our specialist in polymer/material formulation and thermo-mechanical properties, our organic/synthetic/analytical chemists, but also with our microbiologists and chemical engineering experts.

Giving presentations at national and international conferences, publishing scientific articles in peer-reviewed journals as well as grant proposal writing will be part of the work routine.

As our team is dedicated to innovation and its transfer towards industry, the Junior Research Associate will work closely with industrial partners. Moreover, the Chaire ABI having various international collaborations and co-advised graduate students in the USA and in Australia, the candidate may travel occasionally.

Join us on a **permanent contract (French CDI with a probationary period of 4 months)**. NB: A “détachement” for candidate holding a permanent position from a French University, CNRS, INRA or similar institutions can be considered as well.

The level of salary will be dependent upon qualification and experience.

**CANDIDATE PROFILE:**

The successful candidate will hold a PhD in Polymer Science with 2-3 years of post-doctoral experience and have a strong publication track record. Proven skills in biocatalysis and/or green chemical processes as well as a demonstrated ability to attract independent research funds will be an asset.

(S)he will have extensive relevant experience in an academic (and possibly also an industrial or other professional) environment, an international outlook, excellent English skills, and make significant scholarly contribution based on research excellence, integrity and impact that fits our team.

**Competences Sought:**

- Skills in monomers synthesis and polymerization
- Skills in structural and thermo-mechanical characterization of monomers/polymers
- Project management experience
- Relevant experience in national or international research proposals for public or private funding
- A passion for sustainability/green chemistry & biomass valorization
- A passion for innovation
- A willingness to work in a pluridisciplinary laboratory
- A willingness to work closely with industry
- Familiarity with instrumentation
- A pragmatic approach and a sense of urgency
- Good social skills and team work habits

This position is based at: *CEBB – 3, rue des Rouges Terres 51110 Pomacle, FRANCE*

This position will be open in July 2019, or eventually sooner depending on the availability of the successful candidate.

**Application:**

Application and informal inquiries about the post should be sent to the Director of Chaire ABI, Prof. Florent Allais ([florent.allais@agroparistech.fr](mailto:florent.allais@agroparistech.fr), Phone: + 33 3 52 62 05 62, Mobile: +33 6 33 69 81 26). Applications must include: a full and up-to-date CV, a complete list of publications, oral and poster presentations, a cover letter for the position, and 3 letters of recommendation.