



# **Post-doctoral researcher in electrochemistry**

#### **Job description**

The postdoctoral fellow will join the Biosourced Materials team at Institut Jean Lamour (IJL) to work for the project TALISMAN, funded by FEDER. He or she will work under the supervision of Dr Vanessa FIERRO and Prof Alain CELZARD to test new synthesis methods for producing innovative tannin-derived carbon materials. The latter will be used to prepare electrodes for supercapacitors and for PEM fuel cells. The purpose of this contract will be to obtain high-performance materials for the latter applications.

The postdoctoral fellow will be in charge of the synthesis and the characterisation of the materials, and of the testing them through electrochemical experiments. He or she will

- work in a multidisciplinary project providing an exceptional opportunity for enriching his/her expertise
- write scientific reports, A-rank publications and patents
- coach at least one PhD student
- attend international conferences and congresses where he/she will present the outcomes of his/her research

## **Desired skills and experience**

#### **Required Research Experiences**

- > RESEARCH FIELD chemistry, materials science or physics
- > YEARS OF RESEARCH EXPERIENCE 1 4

## **Offer Requirements**

- > REQUIRED EDUCATION LEVEL chemistry, materials science or physics: PhD or equivalent
- REQUIRED LANGUAGES ENGLISH: Excellent

#### Skills/Qualifications

The candidate must have defended a thesis in the field of electrochemistry with publications in both research subjects of supercapacitors and oxygen reduction reaction (ORR), and must have a strong experience in the synthesis and characterisation of porous materials, especially carbons. He or she must know how to write perfectly in English, the aim of the study being to publish in the best journals in the field. A practical profile is therefore sought after, but strong theoretical bases of carbon science are required.

## Salary

This is a 22-month position, with a net salary around 2050 € per month.

## Eligibility criteria

PhD in chemistry, materials science or physics with excellent track record, and motivation for transferring his knowledge to colleagues and students.





# About the employer

## Contacts

Vanessa FIERRO – CNRS Research Director, Head of the Bio-sourced Materials Research Team at IJL Vanessa. Fierro@univ-lorraine.fr

Alain CELZARD – Lorraine University Professor, Head of Department at IJL <u>Alain.Celzard@univ-lorraine.fr</u>

#### Important dates

- Announcement posted on February 15<sup>th</sup> 2019
- > Deadline to send application: March 10<sup>th</sup> 2019
- > The contract should start on 1<sup>st</sup> of June 2019 at latest.

## **Selection process**

Receipt of complete and detailed CV with updated publication list, motivation letter, and supporting letter(s). Then, Skype interview