

**University of Burgundy**

**NANO/ SIOM team, University of Burgundy, Dijon, France**

**Post-doc position:** Chemical Imaging of New Oxides for Energy

**Starting date:** 1 January 2016

**Description of the research project:** A post-doctoral position for an already **well-trained transmission electron microscopist** is available in the NANO / SIOM team, as part of a collaborative project, supported by the European Community (Chipcat project <http://chipcat.eu/>). The aim of this project is to apply and optimize the possibilities of the transmission electron microscopy technique in order to go further in the control of new catalysts for fuel cell applications. Understanding of mechanisms of catalytic processes will be one of the most important targets of the project because it would permit more efficient development of new systems. The candidate will be responsible for the characterization of the grown films and layers by TEM including HRTEM, SAED, EDX, EELS and EFTEM.

**Profile of the successful applicant:** The successful candidate will have several years' intensive experience with transmission electron microscopy. Applicants should have a strong background in materials physics. Preference will be given to applicants with demonstrated experience and expertise in STEM techniques, electron energy loss spectroscopy and atomic resolution HAADF imaging. Experience in studying structure/property relationship via electron microscopy, preferably in the field of catalysis, is of advantage. The candidate will be involved in the characterization of catalysts and materials that are relevant for energy conversion and storage. The post holder will liaise with external groups responsible for the fabrication and characterization of the samples. He/she is also expected to disseminate the results in international peer-reviewed journals as well as conferences.

For administrative reasons, applicants must be EU citizens.

**Duration of the project:** The appointment will be for 11 months.

**The working environment:** JEOL 2100 laB<sub>6</sub> equipped by EDX and JEOL 2100F equipped with EDX, STEM and GIF are available.

For further information please contact:

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Nano/SIOM Team

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**To apply:** Please email your CV, description of research competences and interests, letters of 2 referees, and copies of 2 most valuable publications to Dr. Valérie Potin (<mailto:valerie.potin@u-bourgogne.fr>)