

Tenure Eligible Investigator

Chemical physics of materials, surfaces and interfaces, reactivity of solids, advanced materials and processes

Job number: JF-1-2017-02

The University Bourgogne Franche-Comté (UBFC) is recruiting a tenure eligible investigator in the field of *“chemical physics of materials, surfaces and interfaces, reactivity of solids, advanced materials and processes”*, specifically in the ICB laboratory (<https://icb.u-bourgogne.fr>) located in Dijon (France). This position is supported by the French “Investissements d’Avenir” program, project ISITE-BFC.

We encourage applications of outstanding scientists investigating this field of research owning a PhD degree, featuring at least three years of postdoctoral experience; a substantive record of publications and the potential to develop an independent research program.

The successful applicant will be provided a 450 k€ grant (including her/his salary and research budget) for a period of three years. The salary will be negotiated on the basis of education and experience. It integrates a benefit package including retirement, health insurance, annual and sick leave.

UBFC (www.ubfc.fr) is a research university federating six organizations. The tenure eligible position will be provided by Université de Bourgogne, member of the UBFC federation, during the tenure probation period. During the same period, the successful candidate will be committed to apply for an European Research Council (ERC) grant.

UBFC and Université de Bourgogne are equal opportunity employers.

Job description:

About the hosting research team

The “Interfaces” group of ICB lab (<https://icb.u-bourgogne.fr/fr/axes-scientifiques/interfaces.html>) follows up researches on physical chemistry of interfaces and pays particular attention to the processes involved in elaboration and utilization of advanced nano-structured materials, functionalized surfaces, micro- and nano-porous solids, colloidal materials, etc. This research, which is sometimes very fundamental, falls within a broad

industrial context, ranging from very small companies involved, for instance, in the development of PEM-FC, to cement industry.

Targeted profile

We look for a motivated young scientist proposing an ambitious experimental project which would allow to better understand and control the reactivity at interfaces, especially in the case of growth mechanisms of metal oxide materials (for example, in thin film synthesis or in cement chemistry). The recruited scientist will develop her/his project on the many characterization instruments that are available in the hosting team to determine chemical, structural and morphological evolutions of solids. She/he will capitalize on this infrastructure to bring new skills and new approaches to study growth mechanisms at solid interfaces (eg innovative and/or unusual spectroscopic techniques, original use of synchrotron radiation or neutron spectroscopies, operando methods, etc.). The development of a new technique and/or a new methodology may constitute the core of her/his project. The successful candidate should be able to work in synergy with other members of the group, including theorists developing models of interfacial reactions. As the position may open on a tenure assistant professor position, a limited teaching charge may already be possible during the probation period.

This position is subject to a background investigation by French authorities.

Instructions to apply:

Please follow this link [application form International Junior Fellowship](#) to download the application form to be filled and returned by email to isite@ubfc.fr, before **December 8th 2017**.