PhD position: "Reactive transport in porous media: A multi-scale imaging and modelling approach"

U. B / CNRS / MUMMERING

A 3-years PhD position

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(2 PhD). This PhD position is part of WP5, and you can find information about all the MUMMERING PhD positions at this address https://euraxess.ec.europa.eu/jobs/256053.

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Requirements: To apply you must meet Marie Curie Early Stage Researcher (ESR) eligibility criteria. In particular, you must not have resided in France for more than 12 months in the last 3 years immediately prior to commencing in the role, and, at the date of recruitment, you must be in the first four years (full-time equivalent research experience) of your research career.

Mobility within the MUMMERING network (trainings provided by MUMMERING and secondment to industry and academic partners) is mandatory. In the network you will participate in summer schools, workshops, and scientific meetings with top scientists and the 14 other PhD students of MUMMERING. During your secondment, you will work with multi-scale data acquisition at synchrotron facility and with High Performance Computation at top level laboratories.

A MSc degree is required with a strong background in numerical modelling, computer programming, transport properties of materials, and 3D image analysis. Skills in large data processing will be appreciated.

There is no condition of citizenship, but the applicant will have to be agreed by the French government, ICMCB being a classified laboratory.

Academic supervision: As PhD student, you will be supervised by Dominique BERNARD, CNRS senior scientist at ICMCB, by Yannick BERTHOUMIEU, Prof. at Bordeaux INP, and by Jean-François AUJOL, Prof. at Bordeaux University.

Terms of employment: The position is a three-years full-time appointment under PhD student contract with the French National Centre for Scientific Research (CNRS) following the rules of the Marie Sklodowska-Curie Actions. Contract must start as soon as possible between February and September 2018.

Application: Candidates are requested to submit a single pdf file containing:

• A letter motivating the application
• A detailed CV
• Academic transcripts

To Dominique.Bernard@icmcb.cnrs.fr

Selection will be based on merit and potential, measured in terms of academic records and personal achievements. Creativity, proactivity and capacity for teamwork will also be taken into account.