

Post-Doctoral Research Fellow position

Application deadline: 17 May 2021

Duration: 2 years

We are looking for an enthusiast candidate willing to conduct interdisciplinary cutting-edge research on reactive mixing in porous media and engage in educational innovation projects. The successful candidate will join Porous Material and Processes (PMPM) Research Group at the University of Warwick and collaborate with project partners at Swansea University and ETH Zurich.

Project

PMPM research group is conducting exciting research investigating fundamental fluid mixing phenomena in heterogeneous porous systems. The responsibilities of the post will include, carrying out vigorous, high-level research using a range of state-of-the-art experimental techniques, including advanced optical methods to make dynamic measurements in an existing test facility. These measurements will be used to inform probabilistic mixing model developments, and the successful candidate would be expected to work with research students within the group.

Qualifications

The ideal candidate is expected to have a PhD in physical sciences, engineering, or any related fields. Proven ability for experimental work is required, along with experience in optical measurements (using e.g., PIV, PLIF...), image analysis, experimental fluid mechanics, and programming (Matlab, C++, Fortran ...). A deep understanding of CT-scanning and tomographic reconstructions would be a plus. This position is open to early career researchers and no prior postdoc experience required. The recruited candidate is expected to contribute to international scientific publications, collaborate in an interdisciplinary environment, be able to co-supervise MSc, and PhD students and have an interest to drive both local and international collaborations.

Applications including a complete CV, A “research statement” summarising your experience, name and contact information for at least 2 referees, should be send to Dr. Mohad M. Nezhad m.mousavi-nezhad@warwick.ac.uk.