



Labex MEC “Mechanics And Complexity”

Post-Doctoral position offer

Duration: 1 year

Period: 01.01.2019-31.12.2019

Location: Marseille, France

Gross salary: from 2423 € to 2843 €/month
depending on qualification and experience

Research project and job description

Title: Flows of gas mixtures in micro-nano porous media

Summary: The objective of this post doctorate is to broaden the research theme recently started. This topic concerns the experimental study of the flow of gaseous mixtures in micro-nano porous systems. First step is the development of an experimental methodology for characterizing the flow of gas mixtures through such a system and then the experimental study of these flows on a large variability of operating parameters. In a second step, is the development of the mathematical models for the simulations of the gas mixtures flows at micro scales. These models will be based on the real geometry resulting from tomography of micro and nanoporous media.

Job description: Candidates must have a Ph.D. preferably in Fluid Mechanics, Process Engineering, Physics or Analytical Chemistry, and must also have a record of publications relevant to their research experience.

Previous experience with gaseous mass spectrometer analyzes, including experience with experimental methods in vacuum technology, would be an asset. Prior experience in microfluidics, especially in flow dynamics, could be a plus for the project.

Candidates should be able to write scientific activities and reports in both French and English.

Essential skills: Mastery of Labview, Matlab, Mass Spectrometry, Vacuum Technique

Desired skills: Flow experience in porous media. Experience in a diluted medium



Labex team Axis, action, part: Fluide complexe, Procédés membranaires et nanofluides,
«Comportement des fluides dans les micro-systèmes»

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How to apply

Send an application including:

- A detailed CV with a list of publications
- A cover letter
- A list of scientific personalities able to comment on the application

to both these addresses:

Relevant group leader (irina.martin@univ-amu.fr)

Labex management (LabexConseilCoordination@irphe.univ-mrs.fr)