POST-DOC or FIXED-TERM RESEARCH ENGINEER

Summary

The Computational Hydrocarbon Laboratory for Optimized Energy Efficiency (CHLOE) is recruiting a Research Engineer/Post-Doc on a position with emphasis on Geochemistry modelling. Research objectives include modelling and simulation of oil/brine/rock interactions and Emulsion/CO2/Reservoir fluids mixtures.

Job description

This position will work in collaboration with a multidisciplinary team to better understand and model reactive oil/brine/rock interactions in a natural reservoir. You will be responsible for the following functions:

* Perform tests of available industrial & research software and contribute to the definition of an efficient solution based on reservoir simulator.
* Benchmark the recovery and sweeping conformance in Surfactant Alternate Gas mode (SAG) compared to a CO2 WAG case, using reservoir simulation software on selected heterogeneous geological reservoirs.
* Effectively and professionally communicate progress status and knowledge sharing with staff from CHLOE and from the Technical Center (CSTJF) of TOTAL SA in Pau.

Job requirements

As a candidate, you should possess an educational background in reservoir engineering or related disciplines including chemical engineering, physics or applied mathematics. Preferably PhD level with research focus on geochemical modelling, but candidates with relevant qualifications with three or more years of research experience in a recognized institution will also be considered. Experience in geochemistry, Chemical EOR and/or demonstrated skills in modelling and simulation of complex reservoir fluids is highly regarded. Proficiency in computational methods for multiphase and/or reactive flow is also desirable.

Professional proficiency in English and knowledge or the willingness to acquire the French language is appreciated. You will join ADERA, which is a regional organisation facilitating the management of research projects. A European industry-level salary is part of the offered package.

The initial work period of 12 months can be extended to 18 months.

If interested, please submit an application with your CV to chloe-rh@univ-pau.fr.