

Two years Postdoc Position

Vacancy: 2 year Postdoc
Location: Shell R&D laboratory Rijswijk, The Netherlands
Topic: Multi-phase flow in porous media

One of the major research topics in Shell's R&D laboratory in the Netherlands is Enhanced Oil Recovery. One way to enhance oil recovery is by injecting mixtures of surfactants and / or polymers (and other chemical additives) to mobilize additional oil and transport it through the subsurface reservoir. To better understand the fundamental physics underlying these processes we are developing a comprehensive experimental and modeling framework. One of the experimental components in this framework is a transparent micromodel (microfluidics cell) in which the various fluid- / thermo- dynamics processes can be studied in detail. The postdoc would be involved in exploring and modeling these processes using a variety of tools from simple analytical techniques to complex numerical simulations. The focus of the work is on providing a solid quantitative, physical understanding of the key mechanisms involved at this scale of investigation. A strong interaction with academic peers will be important for the success of this work.

The successful candidate will be working in a strongly motivated group of researchers interested in exploring the more fundamental aspects of Enhanced Oil Recovery.

For more details please contact:

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