

Job offer / Chemical Engineer (W/M)

Job : 1 year contract (12 months)

Yearly gross salary : ~30 k€ upon experience

Publication date : September 15 (2016)

Contact : Jean-Christophe Baret

Location : Centre de Recherche Paul Pascal

Equipe Soft Micro Systems

115 Avenue Schweitzer 33600 Pessac

jean-christophe.baret@u-bordeaux.fr

Context

Droplet-based microfluidics is an emerging technology suitable for the miniaturization and automation of biological assays. It is used for applications in microorganism screening, protein engineering, next generation sequencing, molecular diagnostics... **High performance surfactants**, biocompatible and tailored to the applications are required for this technology. Our team **Soft-MicroSystems** (SMS) located at the Centre de Recherche Paul Pascal in Pessac (F) has improved the knowledge on these surfactants to better control their performances.

In the framework of a European project **ERC Proof of Concept 2016**, we want to develop surfactant formulations to compensate the lack of business solutions for the users of microfluidic technology. In this context, **we are looking for a chemical engineer** to perform synthesis, characterization and optimization of surfactant formulations.

Position and tasks

The candidate will be responsible for the synthesis, characterization and optimization of the surfactant.

The candidate will be fully integrated in the SMS team. She/he will be responsible for the surfactant synthesis according to protocol established in the lab. The candidate will characterize the quality and formulation of the surfactant by characterizations developed in our team.

The candidate will be in charge of the optimization of the product and its production upscaling to contribute to the improvement of the synthesis process according to customer needs, feedbacks and to the market volumes.

Profile

Master degree, chemical engineer degree or PhD in chemistry / physical chemistry
R&D and professional experiences in academic or industrial environment will be a plus.

Independent, rigorous, curious, the candidate must be able to adapt to a multidisciplinary and international environment, facing the demands and developments of a R&D fields in expansion.

An excellent level of written and spoken English is required.

Your application

Applications should include a CV, a list of publications and a brief statement of interests. Please send your application or any inquiry, by email to jean-christophe.baret@u-bordeaux.fr.

As a socially-aware organization, CNRS pro-actively promotes equal opportunities in the workplace.

Deadline for application : November 20, 2016

Bibliography:

JC Baret, Surfactants in droplet-based microfluidics, Lab Chip, 2012

P. Gruner et al. Controlling molecular transport in emulsions, Nature Communications, 2016

B. Riechers et al. Surfactant adsorption kinetics in microfluidics, PNAS (in press) 2016