

# Scalable Fluidics for High-Tech Capsule Industrial Production

## **Calyxia**

ESPCI ParisTech

10 rue Vauquelin,

75005 Paris, France

**Expected start date:** November 1st, 2015

**Duration of contract:** one year, renewable

**Salary:** up to 2500€/month, depending on experience

## **Description of the project**

Calyxia is a start-up enterprise that combines innovative scalable fluidic platforms developed within Harvard and the ESPCI with complex material chemistries to produce high technology capsules for the chemical industry.

The goal of this research project within Calyxia is to industrially produce smart capsules that improve the performance of active ingredients in formulated materials.

The project will involve a fundamental investigation into the invention and adaptation of scalable fluidic processes with multiple phase shell material chemistry in order to produce capsules that present complete active ingredient protection and highly tuned release profiles.

The project is organized to achieve a real collaborative environment with active input from our commercial partners in the chemical industry. This involves a 2-way exchange of expertise, intellectual and commercial invention and industrial production.

## **Candidate profile**

Candidates should hold a PhD, with expertise in one or more of the following domains: fluid mechanics, material science, particle synthesis, colloid science, emulsion and interface science. We expect the candidates to have extensive experience in experimental approaches. Excellent communication and project management skills are required, as well as a good level of English.

## **Contact**

Applications, including CV and cover letter, should be sent to Dr. Jamie Walters (jamie.walters@calyxia.fr) and Dr Damien Démoulin (damien.demoulin@calyxia.fr)