2 PhD Fellowships (f/m) in Marie Skłodowska-Curie Innovative Training Network on Thiol-ene Miniemulsion Photopolymerisation

Job description:

We invite highly motivated and creative applicants within a collaborative project between the Institute of Engineering in Life Sciences at the Karlsruhe Institute of Technology (KIT, Karlsruhe, Germany) and the Institute Charles Sadron (ICS, University of Strasbourg, France). The PhD candidates will work in tandem and be part of the innovative training network (ITN) funded through the Horizon 2020 Marie Skłodowska-Curie Actions Programme.

The topics of the PhD positions are 1/"Intensification of Thiol-ene Miniemulsion Photopolymerization" and 2/"Aerosol Thiol-ene Photopolymerization: Multi-Scale Multi-Component Nanoparticles". The research focuses on using thiol-ene polyaddition in dispersed media to develop new functional materials. More specifically, the two projects are aiming at miniemulsion polymerization and aerosol photopolymerization for the production of innovative polymeric nanoparticles and lattices. Each PhD project includes 26 months in the main host institution (ICS or KIT), a 6-month secondment at the academic partner premises (KIT or ICS), and a 4-month secondment at an industrial partner, Peschl Ultraviolet GmbH (Mainz, Germany).

Further information at: https://mab.blt.kit.edu/1061.php

Qualification:

Candidates can be of any nationality, but are required to undertake transnational mobility. Candidates should ideally possess a Master's degree in chemistry, material science or a closely related discipline. Candidates must be within the first four years of his/her research career. Applications from candidates who already possess a doctoral degree will not be considered. Potential candidates should be able to demonstrate motivation and a strong eagerness to learn. Individuals must possess excellent written, oral communication in English and organizational skills. In addition, they should demonstrate the ability both to work independently and as part of a team. Previous related research experience will be a distinct advantage. Scientific curiosity with an open attitude to work interdisciplinary in the framework of international collaborations is also essential. All students must be willing to travel.

At the time of recruitment, the candidate must not have resided or carried out her/his main activity (work, studies, etc.) in the country of the recruiting organisation for more than 12 months in the 3 years immediately prior to start of the project. Short stays such as holidays are not taken into account.

Salary:

PhD positions are funded at the level stipulated by Marie Skłodowska-Curie Actions.
Institute: Institute of Engineering in Life Sciences, Biomolecular Separation Engineering

Contract duration: limited

Starting date: 01.07.2018

Application up to: 31.05.2018

Contact person in line-management: Dr. Michael Wörner (KIT), Tel : (+49) 721/608-46235, email: michael.woerner@kit

Application: Applicants must select one of the two projects detailed above, the main host institution being either ICS (France) or KIT (Germany). Required documents: a full CV, a motivation letter including a description of previous research experiences and contact details, official transcript, at least one recommendation letter. Only documents in English will be accepted. by email to: Dr. Michael Wörner (KIT) michael.woerner@kit.edu AND to Prof. Christophe Serra (ICS) christophe.serra@unistra.fr. Applications failing to include the requested documentation, where the candidates do not meet the eligibility criteria or which do not indicate the preferred projects WILL NOT be considered.

KIT is an equal opportunity employer. Women are especially encouraged to apply. Applicants with disabilities will be preferentially considered if equally qualified.