Empa
Materials Science and Technology

Empa - the place where innovation starts

Empa is the research institute for materials science and technology of the ETH Domain and conducts cutting-edge research for the benefit of industry and the well-being of society.

In a joint project with a young and dynamic industrial partner from the Medtech field, we will develop a production process suitable for the large-scale manufacturing of ceramic-based micro-medical devices. The formulation and stability of the starting suspension, the micro-shaping process (including tools and chemistry) and finally reliable batch handling for sintering/consolidation will be key aspects to optimize. Successful project execution will particularly rely on the candidate's deep understanding of dispersion/colloid-based processes and related organic/inorganic chemistry. Close coordination and cooperation with internal and external project partners and a sound degree of responsibility will be additional key merits.

Within the scope of these activities, the **High Performance Ceramics Laboratory** offers a position for a

Post-doc in micro-shaping of ceramics

You will be responsible for development and validation of a reliable biocompatible material system and its processing into small medical devices. Through coordination and learning exchange with our internal project partners, you will furthermore contribute to the tooling development, necessary for reliable shaping and compatibility with an economic large-scale industrialization objective. **In-depth knowledge of colloidal and ceramic processing is a prerequisite.**

For this ambitious project, we are looking for a highly motivated, creative and solution-oriented candidate with a Ph.D. in materials science, chemistry or chemical engineering and proven record of accomplishment in colloid/dispersion formulation. The ideal candidate needs to be fluent in English (oral and written). Fluent knowledge of French is an asset.

We are offering a multifaceted and challenging position in a dynamic research environment with an extensive state-of-the-art equipment portfolio. This position will be available from March 1, 2023, or upon agreement, with a planned duration of 24 months.

For further information about the position please contact Dr Michael Stuer michael.stuer@empa.ch and visit our websites www.empa.ch/web/s201 and Empa-Video

We look forward to receiving your online application including a letter of motivation, CV, diplomas with transcripts and contact details of two referees. **Please state concisely in your letter of motivation why you fit the job profile** and upload the requested documents through our webpage. Applications via email will not be considered.

Empa, Cristina Marinoni, Human Resources, Ueberlandstrasse 129, 8600 Dübendorf, Switzerland.

Apply now