

The research group of Prof. Dr. Hansjörg Grützmacher at the Laboratory of Inorganic Chemistry is seeking a highly motivated PhD student for a research project in collaboration with the EPFL, the UNIGE and the UZH.

PhD position: In situ photoactivated hydrogel-based platform to treat cerebral aneurysms

The goal of the research project is to build a bioactive hydrogel capable of healing aneurysms more efficiently and durably than coils or other devices that simply promote sacular thrombosis. Molecules regulating the growth, inflammation and healing mechanisms of aneurysms will be added to the formulation, to provide the implant with enhanced adherence to the aneurysm wall, as well as anti-thrombogenic and anti-inflammatory features capable of stabilizing the occlusion more rapidly and durably than the other embolic materials currently available on the market. The task of the candidate will be to develop suitable photoinitiators which can successfully be applied in formulations for the above mentioned purposes.

The position is full-time and available from April 1st 2017 on.

We welcome motivated applicants holding a MSc degree showing excellent academic qualifications. The ideal candidate has a strong background in Molecular Inorganic Chemistry and basic knowledge in Medicinal Chemistry/biochemistry. Most importantly, however, is experience in the synthesis of sensitive main group element compounds and a high motivation to perform experiments. Profound knowledge of NMR spectroscopy and further analytical techniques used to characterize molecules is mandatory. Previous participation in research projects and scientific publications are additional assets. She/he is a team player, enjoys interdisciplinary work, has strong communication skills, is self-motivated and has insatiable scientific curiosity. Fluency in spoken and written English is a requirement, good knowledge in German and French is very welcome.

For further information please contact Christine Rüegg; rueegg@inorg.chem.ethz.ch.

We look forward receiving your online application including your; a) motivation letter, b) degree certificates, c) CV including name and contact of 3 references d) samples of written work in English (e.g. publications, MSc thesis). Please address your application to: Mr. Hans-Peter Freitag, Human Resources, CH-8093 Zürich

Applications via email or post cannot be considered