



Postdoctoral Research Associate wanted in Materials Chemistry



Wriedt Lab at Clarkson University (Potsdam, NY) is looking to fill a position as postdoctoral research associate in materials chemistry. Preferred starting date is January 2021 (later starting date can be negotiated if reasonable).

Who are we? Led by Dr. Mario Wriedt, the Kodak CAMP Distinguished Professor of Chemistry, Wriedt Lab is a young and highly energetic group whose research activities are focused at developing new strategies for the design and synthesis of advanced functional solid-state materials from molecular building blocks and advancing the understanding of their structure-property relationship. See wriedt-lab.com for group introduction. We are located in upstate New York at the foothills of the beautiful Adirondack Mountains which offer abundant recreational activities.

About the project. In this industrially sponsored postdoctoral project you will address interrelated fundamental aspects of the design, synthesis, and characterization of functional metal-organic framework (MOF) materials. MOFs are crystalline porous materials composed of metal clusters or ions connected by polytopic organic linkers forming 3D networks. Their framework structures, pore environments, and functionalities make them uniquely tunable by the choice and connection of metal and organic building blocks, allowing the design of innovative materials with customized properties. In particular, you will explore MOFs for the controlled microencapsulation of important and industrially relevant active molecules. Resulting composite materials are expected to show superior stabilities and reactivities as compared to the pristine (i.e., free) active molecules.

Your profile. You hold a Ph.D. in chemistry (or related areas) and you have a strong background in MOF chemistry (including MOF nanoparticles) with ample of experimental experience in the fields of synthetic organic and inorganic chemistry. Additional experience in mechanochemical synthesis would be a plus. You are also well experienced in the collection, analysis, and interpretation of data from common

analytical techniques such as SCXRD, PXRD, NMR, UV-Vis (transmission and reflectance), NMR, and adsorption analysis. In addition, as ideal candidate, you show excellent communication skills (written and verbal). You are expected to independently handle the preparation of sponsor reports and research manuscripts.

What we offer. A competitive stipend of ~\$49,000/year with fringe benefits (health care, retirement contributions). In addition, you will have access to Clarkson's faculty research development program which is aimed to help preparing young faculty/postdocs to launch their academic career. The contract is on a one-year basis but potentially renewable based on performance and funding availability.

How to apply? Please send your cover letter and curriculum vitae for consideration to Prof. Wriedt (mwriedt@clarkson.edu). Reference letters should be provided upon request if shortlisted for video interviews.