



Leibniz
Universität
Hannover

The Institute of Building Material Science invites applications for the position of a

Senior Research Fellow (Postdoc, m/f/d) as Head of the Working Group "Microstructure Analysis and Micromechanics" (Salary Scale 13 TV-L, 100 %)

starting as soon as possible. The position is initially limited to 2 years.

One of the key research focuses at the Institute for Building Material Science is the investigation of the microstructure of the building material concrete and here in particular the contribution of nano- and microscopic mineral building blocks to the load-bearing and deformation behavior of concrete. The research at the institute focuses very strongly on the creep and shrinkage behavior of cement and concrete. Various DFG projects are currently underway in this area, and we are looking to reinforce them.

Here, the Institute for Building Material Science offers you an interesting and multifaceted position in a young and dynamic team as well as good networking opportunities through cooperation with national and international scientists as well as industrial partners. If you are interested in working scientifically, we look forward to your application.

Project description

The central area of responsibility is comprised of the management and further expansion of the working group 'Microstructure Analysis and Micromechanics' and the management of the associated laboratory. You will be the contact person for the academic staff assigned to you and support the other working groups of the institute in clarifying and solving analytical and experimental questions. Specifically, you are working on the research project "Exploring and modeling the deformation mechanisms of cement using Small-angle X-ray scattering (SAXS)". Appropriate experience in dealing with the SAXS method or in the area of Nano- and Micro-indentation as well as Raman spectroscopy are very desirable, but not necessary. An important element of your work is to develop projects together with the head of the institute and translate them into research proposals.

Employment conditions

Prerequisite for the employment is a completed academic university degree (Diploma or Master's Degree) in the fields of physics, chemistry, civil engineering or materials science. A completed PhD in one of the mentioned scientific fields is expected. Furthermore, very good knowledge (chemical and physical background) and ideally experiences in Small-angle X-ray scattering and pore analysis are required.

In addition, you have the ability to describe technical processes in a structured manner for publication.

Willingness to work in a team, collaboration in the laboratory of the institute as well as good IT and programming skills are welcome. German and English skills are also required. Your profile is rounded off by a high degree of initiative and an independent working attitude.



Leibniz
Universität
Hannover

Part-time employment can be arranged on request.

As an equal opportunities employer, Leibniz University Hannover intends to promote women and men. For this reason, suitably qualified women are specifically invited to apply. Preference will be given to equally qualified applicants with disabilities.

For further information, please contact Mrs. Nikoleta Spanos (Email: institut@baustoff.uni-hannover.de).

Please send your informative application (including cover letter, letter of motivation, curriculum vitae and the relevant certificate documents) in electronic form by 25.09.2020 (as a coherent PDF document) to

Prof. Dr.-Ing. Michael Haist
Email: institut@baustoff.uni-hannover.de

or by postal mail to:

Gottfried Wilhelm Leibniz Universität Hannover

Institut für Baustoffe

Appelstraße 9A

30167 Hannover

<http://www.uni-hannover.de/jobs>

Information regarding to Article 13 GDPR for the collection of personal data can be found at <http://www.uni-hannover.de/de/datenschutzhinweise-bewerbung/>.