At the Material Sciences Center (WZMW), Structure and Technology Research Laboratory (STRL), Prof. Dr. Kerstin Volz, we have a job opportunity for a

**Research Assistant (Postdoc)**

The position is initially offered for a period of two years, assuming the candidate has not previously spent time for qualification elsewhere. The starting date is as soon as possible.

Salary and benefits commensurate with a public service position in the state Hessen, Germany (TV-H E13).

To the duties belong scientific service in research and teaching with the emphasis on quantitative (scanning) transmission electron microscopy ((S)TEM). Ex- as well as in-situ electron microscopic methods shall be used to characterize ion conductors used in batteries quantitatively. Thereto, methods should be developed or refined to characterize the composition as well as charge and field distribution across grain boundaries in the material. Moreover, the structural characteristics of the ion conductors shall be correlated to the other properties of the materials together with project partners.

For these projects, different state of the art transmission electron microscopes, including a double Cs-corrected one, and sample preparation equipment are available at the WZMW. For in-situ studies of ion batteries under operating conditions, also a so-called “liquid cell” specimen holder is available.

Our research is embedded in several coordinated programs of the German Science Foundation (DFG) as well as in the topic „Electromobility“ of the „Forschungscampus Mittelhessen“. This offers an interesting and stimulating research environment.

The position will be filled by a temporary contract that is limited to the period which is necessary to gain further scientific expertise (such as the preparation for a subsequent qualification period). Within the entrusted tasks the opportunity for independent scientific work to obtain further personal qualification is given. The limitation of the contract complies to § 2 Abs. 1 WissZeitVG.

We are seeking independent researchers with a scientific specialisation in (S)TEM who are interested in using aberration-corrected microscopy and in developing electron microscopic methods. Candidates should hold an excellent University degree in natural sciences (e.g. physics, material sciences, chemistry) as well as a PhD. Experience in at least one of the following topics is necessary: (aberration-corrected) (scanning) transmission electron microscopy; (S)TEM image simulation. Applicants should be enthusiastic and self-motivated and have a genuine interest in applied research as well as working in an interdisciplinary environment. Excellent language skills in English, flexibility and ability for teamwork are required.

If you are interested, you may contact Prof. Dr. Kerstin Volz at kerstin.volz@physik.uni-marburg.de or Dr. Andreas Beyer at andreas.beyer@physik.uni-marburg.de.

We support women and particularly invite them to apply. Applicants with children are welcome - the Philipps-Universität is certified as a family friendly university. Sharing a full-time position (§ 8 Abs. 2 Satz 1 HGlG) as well as a reduction of working time is possible. Applicants with a disability as described in SGB IX (§ 2 Abs. 2, 3) will be preferred in case of equal qualifications.

As the documents will not be returned after end of the selection procedure, please do not send originals. Application and interview costs cannot be refunded.

Please send your application mentioning registration number ZE-0020-wzwm-wmz-2018 to Wissenschaftliches Zentrum für Materialwissenschaften, Philipps-Universität Marburg, Frau Isabelle Kimmel, Hans-Meerwein-Straße 6, 35032 Marburg, or as a single PDF file to wzmw@staff.uni-marburg.de by march 2nd, 2018.