At the Department of Physics and 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 offered for a period of three years. The starting date is as soon as possible. Salary and benefits are according to a public service position in Germany (TV-H), pay scale E 13.

The cluster of competence „Solid Electrolytes and Solid State Batteries“, which is financed by the BMBF, deals with the development and characterization of different materials, which should be applied in future all-solid-state batteries. Different methods of quantitative (scanning) transmission electron microscopy ((S)TEM) should be employed to characterize the battery materials. 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 specific “in-situ” 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.

A scientific qualification does not belong to the aims of this project. The contract will be according to § 2 Abs. 2 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; solid state battery materials. 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.

A scientific qualification does not belong to the aims of this project. The contract will be according to § 2 Abs. 2 WissZeitVG.

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 HGIG) 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 (including a project-specific motivation letter, copies of relevant diplomas, curriculum vitae and contact details of two potential referees) mentioning registration number fb13-0023-wmz-2018 electronically as a single pdf-file to wzmw@staff.uni-marburg.de. Deadline is 12th of October 2018.