Saarland University is a campus university with an international reputation for research excellence, particularly in computer science and in the life sciences and nanosciences. The university is also distinguished by its close ties to France and its strong European focus. Around 17,000 students, studying over one hundred different academic disciplines, are currently enrolled at Saarland University. Saarland University is officially recognized as one of Germany’s family-friendly higher-education institutions and with a combined workforce of more than 4000 it is one of the largest employers in the region.

The Research Group of Structural and Functional Ceramics is inviting applications for the following position commencing at the earliest opportunity.

**Academic research assistant (m/f/x)**

**Reference number W2437**, salary in accordance with the German TV-L salary scale¹, pay grade: E13 TV- L, duration of employment: until 30.10.2024, volume of employment: 80 % of standard working time.

**Workplace/Department:**
Faculty of Natural Sciences and Technology; Department of Material Science and Engineering

**Job requirements and responsibilities:**
The aim of the work is to develop tailor-made starting powders leading to prototypical solid-state batteries with significantly improved electrochemical behavior within the framework of a collaborative project dealing with the generation and characterization of functional electrode and electrolyte layer composites. The scalability of suitable powder synthesis processes is to be tested in laboratory investigations.

The focal points will be determined together with the head of the working group and fall into the following range of topics:

- Laboratory synthesis and characterization of stable interfacial modified cathode composite powders,
- Adaptation and post-treatment of promising solid electrolyte powders,
- Investigation of structural, morphological and conductivity parameters as well as chemo mechanical parameters of the synthesized starting powders with regard to charge transfer behavior, diffusion behavior as well as possible side reactions,

¹ TV-L = collective agreement on remuneration of public sector employees in the German Länder

The pay grade assigned to an employee depends on their professional qualifications and the number of years of service. Each pay grade is further subdivided into levels. Entry-level employees with no previous experience will initially be assigned a level 1 rating. After one year at level 1 of the E10 pay grade, an employee will move up to level 2. After a further two years, the employee will move to level 3, etc.
• Approaches for the high-throughput synthesis of suitable electrolyte and cathode powders.

The aim of your scientific activities should be a doctorate.

**Your academic qualifications:**
• Completed scientific university studies in the field of materials science, materials chemistry or chemistry,

**The successful candidate will also be expected to:**
• Experience in the field of synthesis of inorganic materials and in the field of electrochemistry,
• Language skills (according to GER): German -B2.

**What we can offer you:**
• A flexible work schedule allowing you to balance work and family, among other things the possibility of teleworking,
• Secure and future-oriented employment with attractive conditions,
• A broad range of further education and professional development programmes (for example language courses),
• An occupational health management model with numerous attractive options, such as our university sports programme,
• Supplementary pension scheme (RZVK),
• Discounted tickets on local public transport services (‘Job-Ticket Plus’ of the saarVV).

We look forward to receiving your meaningful online application (in a PDF file) by 15.03.2024 to g.falk@nanotech.uni-saarland.de. Please include the reference number W2437 in the subject line of the e-mail.

If you have any questions, please contact us for assistance. Your contact:
Herr Priv.-Doz. Dr.-Ing. habil. Guido Falk
Department of Materials Science and Engineering
Tel.: +49 681 302-5008

Pay grade classification is based on the particular details of the position held and the extent to which the applicant meets the requirements of the pay grade within the TV-L salary scale. Part-time employment is generally possible.

If you have obtained a foreign university degree, a proof of the equivalence of this degree with a German degree by the Zentralstelle für ausländisches Bildungswesen (ZAB) is needed before hiring. If necessary, please apply for this in time. You can find more information at https://www.kmk.org/zeugnisbewertung.

Unfortunately, neither costs for attending an interview at Saarland University nor costs for any certificate evaluation by the ZAB can be reimbursed in principle.

We welcome applications regardless of gender, nationality, ethnic and social origin, religion/belief, disability, age, and sexual orientation and identity. In accordance with its policy of increasing the proportion of women, the University actively encourages applications from women. Applications from severely disabled persons are expressly welcome and will be given preferential consideration in the event of equal suitability.

When you submit a job application to Saarland University you will be transmitting personal data. Please refer to our privacy notice for information on how we collect and process personal data in accordance with Art. 13 of the Datenschutz-Grundverordnung. By submitting your application you confirm that you have taken note of the information in the Saarland University privacy notice.