Saarland University is a campus university with an international focus and a strong research profile characterized by the three main research areas ‘Computer Science’, ‘Nanobiomed’ and ‘Europe’. With numerous internationally respected research institutes situated in the vicinity of the university and dedicated support for start-up companies, Saarland University is an ideal environment for research, teaching and innovation. The proportion of international students studying at Saarland University is well above the national average and is testimony to the university’s strong international focus. Saarland University has been an officially certified family-friendly university since 2004. The subject area ‘Materials Science and Engineering’ ranges from basic research in the fields of materials and materials engineering to application-driven collaborative research with regional, national and international industrial partners. Core research areas include sustainable materials that are designed for use in the circular economy, materials for the emerging hydrogen economy and the digitalization of materials and processes (creation of digital twins for use in material design, material processing and process control). The German Research Center for Artificial Intelligence (DFKI) is Germany’s leading business-oriented research institute that is developing innovative AI-based software technologies. Based on its high level of excellence within the German scientific community and, in terms of staff numbers and external funding, is currently the world’s largest research centre for artificial intelligence and its applications. DFKI maintains close collaborative ties with national and international companies.

In cooperation with the German Research Center for Artificial Intelligence (DFKI), the Department of Materials Science and Engineering in the Faculty of Natural Sciences and Technology at Saarland University in Saarbrücken is inviting applications for the following position to commence at the earliest opportunity.

**W3 Professorship in Data Driven Simulation and Analysis in Material Science**

This position is a permanent public sector appointment (‘full tenure professorship’) in combination with the role of departmental head at DFKI.

The successful candidate will be expected to have excellent scientific credentials and the ability to drive interdisciplinary research at the interface of material science, materials engineering and Artificial Intelligence. In addition to your duties as a university professor, you will also be expected to work closely with DFKI to establish a new research area and to acquire significant external funding in this field. The main focus of your research will be on new approaches to the data-driven characterization of materials and simulation-based material development. Other avenues of research will explore how methods of artificial intelligence and machine learning can be used to analyse experimental data (e.g. analytical image data) and will examine the cross-scale and correlative linking of such methods with existing methods in research data management within the department as well as to Germany’s national research data infrastructure NFDI-MatWerk. Another key aspect of the role will involve close collaborative interaction within the Department of Materials Science and Engineering and neighbouring departments in the Faculty of Natural Sciences and Technology as well as with non-university research institutions on campus. It is intended that the appointee will be co-opted to the Faculty of Mathematics and Computer Science.

The appointment will be made in accordance with the general provisions of German public sector employment law. Candidates must have experience in and an aptitude for academic teaching. They will have a PhD or doctorate in an appropriate subject and will have demonstrated a particular capacity for independent academic research, typically by having obtained an advanced, post-doctoral research degree (Habilitation) or by having published an equivalent volume of peer-reviewed research or by having been appointed to a junior professorship or a similar position. The successful applicant will have a strong track record of sustained high-quality research in the area of appointment and will have gained relevant experience with externally funded national and international research projects and will be willing and able to engage in interdisciplinary research programmes and to collaborate with industrial partners. You will also be expected to have experience in and an understanding of university-level teaching, to contribute innovative teaching concepts at all academic levels (Bachelor’s, Master’s and doctoral programmes), to teach in English, to provide dedicated supervision of students working on their final-year thesis projects and to support and foster early career researchers. In addition, you will also contribute to the international degree programmes managed by the European School of Materials (EUSMAT).

At Saarland University, we view internationalization as a process spanning all aspects of university life. We therefore expect members of our professorial staff to engage in activities that promote and foster further internationalization. Special support will be provided for projects that maintain collaborative interactions within existing international cooperative networks, e.g. projects with partners in the European University Alliance Transform4Europe (www.transform4europe.eu) or the University of the Greater Region (www.uni-gr.eu).

In accordance with the objectives of its gender equality plan, Saarland University is actively seeking to increase the proportion of women in this field. Qualified women candidates are therefore strongly encouraged to apply. Preferential consideration will be given to applications from disabled candidates of equal eligibility. We welcome applications from all qualified candidates irrespective of gender, ethnicity, national heritage or social background, religious beliefs, personal beliefs or values, disability, age, sexual orientation or identity.

To apply for this position, please submit your application by no later than 11 January 2024 via Saarland University’s online professorial appointments platform: www.uni-saarland.de/berufungen. Application documents must be submitted in PDF format. Application documents must include:

• CV/résumé (including your home address, phone number and email address);
• a summary of your previous experience in academic teaching and research (incl. teaching appraisals, if available);
• types of external funding secured and amounts;
• a two-page paper detailing your teaching concept and a two-page research concept; and your three most significant publications of the last five years.

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 General Data Protection Regulation (GDPR) (www.uni-saarland.de/en/privacy). By submitting your application you confirm that you have taken note of the information in the Saarland University privacy notice.

For more information, please visit: www.uni-saarland.de | www.youtube.com/watch?v=tzo6dxr1FWk