

Saarland University is a campus university with a strong international focus and a distinctive research profile characterized by its four core research hubs 'Computer Science and Informatics', 'BioMed', 'Europe' and 'Sustainability'. 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 officially certified as a family-friendly university since 2004.

Quantum technologies are a core research priority at the Department of Physics, with particular strengths in quantum information and computation, quantum communication and quantum sensing. The department fosters close interdisciplinary collaborations with research groups in mathematics, computer science, systems engineering and chemistry. Our recently established Quantum Technology Center (QuTe) acts as a dynamic hub that brings together this expertise, advancing quantum technologies from the foundational theory of quantum information and algorithms through to the realization of quantum networks. In close partnership with the Helmholtz Forschungszentrum Jülich, we offer exceptional opportunities for joint projects, networking, and access to state-of-the-art high-performance computing and quantum resources. Additionally, the German Research Center for Artificial Intelligence (DFKI) – Germany's leading application-oriented research institute for AI – develops cutting-edge AI-based software technologies and maintains strong ties with national and international industry partners. As the world's largest AI research centre in terms of staff numbers and external funding, DFKI is recognized globally as a centre of excellence.

In cooperation with the German Research Center for Artificial Intelligence (DFKI), the Department of Physics in the Faculty of Natural Sciences and Technology at Saarland University (Saarbrücken Campus) is inviting applications for the following position to commence in April 2027:

## W2 Professorship (W3 tenure track position) in Quantum+AI: Artificial Intelligence in Quantum Physics and Technology

(m/f/x; Reference no.: W2811)

The university also invites applications for five other professorships in **Quantum Information Theory** (m/f/x; Reference no.: W2810) **Photonics for Quantum Systems** (m/f/x; Reference no.: W2830), **Communications in Quantum Technologies** (m/f/x; Reference no.: W2831), **Control in Quantum Technologies** (m/f/x; Reference no.: W2832) and in **Electromagnetics in Quantum Technologies** (m/f/x; Reference no.: W2829). Applicants whose research focus fits more than one area are encouraged to submit separate applications to the other professor positions.

This professorial position is a fixed-term public sector appointment (*Beamtenverhältnis auf Zeit*) for a maximum period of six years in combination with the role of departmental head at DFKI. If the tenure evaluation procedure (teaching appraisal and external assessment of research work) is positive, the appointee will be promoted to a permanent professorship (lifetime tenure) at the German academic salary scale W3 in combination with the role of departmental head at DFKI.

The successful candidate will have an outstanding scientific record and the ability to drive interdisciplinary research at the interface of quantum physics, quantum technologies and Artificial Intelligence. Alongside their duties as a university professor, they will be expected to work closely with DFKI to establish a new research group and to secure significant external funding in this field. The principal research focus should be in the field of quantum AI, broadly defined to encompass both quantum methods for AI and AI-driven approaches to quantum technologies and their applications. The research should strengthen the existing focus on quantum information science at Saarland University, the Quantum Technology Center (QuTe) and the German Center for Artificial Intelligence (DFKI). Developing research activities and pursuing applications at the intersection of physics, AI and computer science are considered important future directions. Another key aspect of the role will involve collaborative interaction within the Department of Physics 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 person appointed will contribute to teaching theoretical physics and to the Bachelor's and Master's programmes in 'Quantum Engineering' and 'Data Science and Artificial Intelligence', as well as to the Saarbrücken-Jülich Graduate School of Quantum Information and Computation.

The appointment will be made in accordance with the general provisions of German public sector employment law (see legal recruitment requirements in § 41 Saarländisches Hochschulgesetz, current version available at <https://recht.saarland.de/bssl/document/jlr-HSchulGSLrahmen>).

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 successfully completed the interim evaluation of a junior professorship or equivalent position. The successful applicant will have a strong track record of sustained high-quality research in the area of appointment and will have high international visibility in their field. They will have demonstrated relevant experience with externally funded national and international research projects and will be able to engage in interdisciplinary research programmes and to collaborate with industrial partners. They are 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 to students working on their final-year thesis projects and to support and foster early career researchers.

Saarland University views internationalization as a process spanning all aspects of university life. We therefore expect members of our professorial staff to promote and foster further internationalization. Special support will be provided for projects that expand collaboration within existing international cooperative networks, e.g. projects with partners in the European University Alliance Transform4Europe ([www.transform4europe.eu](http://www.transform4europe.eu)) or the University of the Greater Region ([www.uni-gr.eu](http://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, nationality, ethnic heritage or social background, religious beliefs, personal beliefs or values, disability, age, sexual orientation or identity.

Please complete the application form in Saarland University's online application portal at [www.uni-saarland.de/berufungen](http://www.uni-saarland.de/berufungen) and submit it with your application documents by no later than **28 May 2026**. Application documents must be uploaded as a single PDF file (max. size 10 MB) and should include the following documents in the order specified:

- Letter of application (addressed to the Dean of the Faculty of Natural Sciences and Technology)
- CV/résumé (including your home address, phone number and email address)
- copies of relevant academic qualifications
- a list of publications
- a summary of your previous experience in academic teaching and research (incl. teaching appraisals, if available)
- types and amounts of external funding secured
- a teaching concept (max. 2 pages) and a research concept including intended collaborative projects (max. 2 pages)
- your three most significant publications of the last five years
- proof of disability – if you declared a disability in your application.
- If you hold a university degree from a non-German university, please provide proof of equivalence from Germany's Central Office for Foreign Education (ZAB) if available. If you have not yet requested proof of equivalence from ZAB, you must submit proof at a later date if so requested.

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](http://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.