

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', 'BioMed – Life and Materials', 'Interdisciplinary European Research' and 'Sustainability'. The Department of Mathematics at Saarland University encompasses the full spectrum of mathematics and forms a joint faculty with the Department of Computer Science with which it maintains close collaborative ties.

A new Center for Quantum Technologies (QuTe) has recently been established at Saarland University to pursue research across the full spectrum of quantum technologies – from the theoretical and computational foundations (quantum information theory, theoretical physics, computer science, mathematics, quantum computing) to experimental work on physical platforms (quantum physics, quantum optics, quantum engineering). It will also include a satellite facility of the Helmholtz Center 'Forschungszentrum Jülich' further strengthening its research capabilities.

The Department of Mathematics at Saarland University is inviting applications for the following position commencing at the earliest opportunity:

Professorship (W2, tenure track to W3) in Quantum Information Theory

(m/f/x, Reference no.: W2810)

The university also invites applications for five other professorships in **Electromagnetics in Quantum Technologies** (m/f/x; Reference no.: W2829), **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 **Quantum+AI: Artificial Intelligence in Quantum Physics and Technology** (m/f/x; Reference no.: W2811). Applicants whose research focus fits more than one area are encouraged to submit separate applications to the other professor positions.

We are looking to appoint an internationally recognized scientist with an outstanding track record of research in the field of quantum information theory, ideally with a focus on mathematical approaches to quantum information theory, quantum algorithms or quantum complexity theory, or alternatively on other aspects of quantum information in mathematics and computer science. The successful candidate will be expected to contribute actively to both research and teaching. Teaching duties will include modules in the new Master's programme in Quantum Information at the Department of Mathematics (starting in the winter semester of 2026) and may also cover foundational undergraduate courses in mathematics, courses for students training to become teachers, as well as service lectures for other faculties. The language of instruction is English and, for basic courses, German. We expect the successful candidate either to have sufficient proficiency to teach in both languages, or be willing to acquire this level of proficiency within an appropriate period. The appointee will complement and expand existing research activities in quantum information theory at Saarland University and demonstrate potential for collaboration.

Applicants should have experience in acquiring external research funding. The person appointed will be expected to independently secure external funding and to contribute to collaborative research proposals that strengthen the department, faculty and university.

The successful candidate will be expected to collaborate closely with the existing research groups in quantum information theory in the Department of Mathematics and the Department of Physics. The appointee will also be part of the new Center for Quantum Technologies and is expected to actively contribute to its development.

Tenure track professors (W2) at Saarland University are full members of the university's professorial staff and have the right to supervise Bachelor's, Master's and PhD students. Appointments to W2 professorial positions are made in accordance with the general provisions of German public sector employment law (see Sec. 41 of the Saarland Higher Education Institutions Act, SHSG; current version available at <https://recht.saarland.de/bssl/document/Ir-HSchulGSLrahmen>). 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.

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.

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. Furthermore, we welcome applications from all qualified candidates irrespective of nationality, ethnic heritage or social background, religious beliefs, personal beliefs or values, age, sexual orientation or identity.

To apply for these positions, please submit your application by no later than **28 May 2026** via Saarland University's online professorial appointments platform: www.uni-saarland.de/berufungen. Application documents must be uploaded as a single PDF file (max. size: 10 MB) and must include the following documents in the order specified:

- a letter of application, which should be addressed to the Dean of the Faculty of Mathematics and Computer Science, Prof. Dr. Jan Reineke, and should include your private address, phone number and email
- your CV/résumé including details of your academic teaching duties and research history
- a complete list of publications
- a statement of your previous and planned research and teaching activities
- your record in acquiring external funding
- electronic copies of your certificates
- up to three of your most relevant publications regarding your planned research at the Center for Quantum Technologies QuTe
- proof of your recognized disability status if you declared this in your application
- if you hold a university degree from a foreign 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.

For questions about this position, and for more information on the planned Center for Quantum Technologies (QuTe), please contact Professor Moritz Weber (email: weber@math.uni-sb.de).

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) (<https://www.uni-saarland.de/en/privacy.html>). By submitting your application, you confirm that you have taken note of the information in the Saarland University privacy notice.