

Hier
entsteht
Zukunft!



UNIVERSITÄT
DES
SAARLANDES

Foto: Uwe Beilhauer

Saarland University is a campus university that is internationally recognized for its strong research programmes. Fostering young academic talent and creating ideal conditions for teaching and research are a core part of the university's mission. As part of the University of the Greater Region, Saarland University enables students and staff to share and exchange knowledge and ideas between disciplines, between universities and across borders. With over 17,000 national and international students, studying more than a hundred different academic disciplines, Saarland University is a diverse and dynamic learning environment. Saarland University is officially recognized as one of Germany's family-friendly higher-education institutions and with a combined workforce of more than 4,000 it is one of the largest employers in the region.

The **Center for Quantum Technologies (QuTe) at Saarland University** is inviting applications for the following position commencing at the earliest opportunity.

1 PhD position in Experimental Quantum Photonics / Physics (w/m/d)

Reference number W2818, salary in accordance with the German TV-L salary scale¹, pay grade: E13 TV- L, duration of employment: 3 years, volume of employment: 75 % of standard working time.

Workplace/Department:

At Saarland University, a new Center for Quantum Technologies (QuTe) has been founded in 2025. This center pursues research on quantum technologies in a broad sense, on the „hardware“ side (in quantum physics, quantum optics and quantum engineering) as well as on the „software“ side (in quantum information, theoretical physics / computer science / mathematics and quantum computing). It is truly interdisciplinary at the interface of Physics, Systems Engineering, Computer Science, and Mathematics. It will include an outpost of the Forschungszentrum Jülich with which it will closely collaborate.

We are looking for a curious and motivated PhD candidate to join the **Automated Laboratory of Photonic Systems**, led by Assistant Professor (Jun. Prof.) Samuel Gyger. Our group is associated with QuTe and located with the Department of Physics, Saarland University.

Our research explores hybrid integrated photonic and phononic systems, with the goal of pushing the boundaries of next-generation communication and sensing technologies. What sets our lab apart is our commitment to automating the research process itself. For this we build and use robotic workflows across both nanofabrication and spectroscopy.

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.

Job requirements and responsibilities:

We are advertising a three-year PhD position in integrated quantum optics and laboratory automation. The ideal candidate is an excellent, self-driven, and curious problem-solver. A master's degree in physics, engineering or related disciplines, and a solid foundation in quantum technologies, robotics or integrated photonics is required.

We are searching for scientists with a "maker mentality". If you like building, tinkering, and optimizing both hardware and software you will fit right in at ALPS. Experience in integrated photonic design, simulation, nanofabrication, or experimental work is a plus. A strong interest or background in robotics and automation is particularly welcome.

Of course, we understand that not all outstanding applicants will meet all requirements. If what we do here interests you, please do not hesitate to contact us or apply.

When applying, please indicate the courses you have attended related to quantum technologies in a broad sense (e.g. quantum computing, quantum or integrated optics). The successful applicant will also contribute to the academic environment by supporting teaching in the Physics Bachelor/Master programs.

Note: Although this position is primarily intended for a PhD candidate, if you are an outstanding Postdoctoral researcher who is interested in leading projects in this area, please reach out to us.

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 continue with or expand on 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).

Your academic qualifications:

- Completed scientific university studies in physics, electrical engineering or related disciplines
- Language skills (according to GER): English – (C1/C2) (e.g.: *German -C2*)

What we can offer you:

- A flexible work schedule allowing you to balance work and family
- 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' of the saarVV)
- Job bike leasing (JobRad)

We look forward to receiving your **meaningful online application** by **20.04.2026** to samuel.gyger@uni-saarland.de. Please include the reference number **W2818** in the subject line of the e-mail.

Application documents must be uploaded as a single PDF file (max.10MB) and must include the following documents:

- A letter of application, which should be addressed to Samuel Gyger, and which should include 5 concise points explaining why you are the right person for the job, and contact data and email,
- your CV/résumé including details of study program and electronic copies of your certificates.

If you have any **questions**, regarding the position or the lab, please contact Jun.Prof. Samuel Gyger (email samuel.gyger@uni-saarland.de). For general questions on the Center of Quantum Technologies (QuTe) contact **Prof. Moritz Weber** (email: qute@uni-saarland.de).

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 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.