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 research group for Biophysical Chemistry in the Department for Chemistry is inviting applications for the following position commencing at the earliest opportunity.

Academic research assistant (m/f/x)

Reference number W2574, salary in accordance with the German TV-L salary scale[1], pay grade: E13 TV- L, duration of employment: 24 month, volume of employment: 100 % of standard working time.

Workplace/Department:

The research group "Biophysical Chemistry" performs ultrasensitive fluorescence spectroscopy down to the level of single molecules. In collaboration with the Max Planck Institute for the Science of Light we explore the benefits of strong light-matter interactions in sub-micron sized, tunable cavities for chemistry (polaritonic chemistry). Several low-power lasers, cw and pulsed in the visible range, and fully equipped, home-built fluorescence microscopes are at disposal.
For reinforcement of our spectroscopy team, we seek a highly motivated person with strong mathematical and optical background. Interest in the technical development of optical microscopy is highly appreciated. Support for starting an independent scientific career will be provided.

Job requirements and responsibilities:

- Fluorescence, transmission and reflection spectroscopy in a microscopy setup
- Construction of a nanofluidic cavity platform
- Analysis of fluorescence signals as a result of weak and strong light-matter coupling

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[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.

- Self-reliant publication of scientific results
- Participation in academic education and teaching
- Support of collaborators in spectroscopic characterizations

Your academic qualifications:
- Doctoral degree / PhD in Experimental Physics/Quantum Optics/Physical Chemistry with focus on fluorescence spectroscopy
- fluent (written/spoken) English

The successful candidate will also be expected to:
- Experience with lasers (Class 3b)
- Handling and construction of optical and microscopic systems
- First-authorships of peer-reviewed, scientific publication
- Experience in oral presentations
- Programming skills, e.g. Mathematica, Matlab, Labview
- Familiarity with data management systems is an advantage
- Integration into an interdisciplinary environment

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' of the saarVV)

We look forward to receiving your **meaningful online application** (in a PDF file) by **15.01.2025** to **sekretariat-biophyschem@uni-saarland.de**. Please include reference number W2574 in the subject line of the e-mail.

If you have any **questions**, please contact us for assistance. Your contact:
Herr Prof. Gregor Jung
Biophysical Chemistry
Tel.: 0681/302-64848

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.