Saarland University is a campus university with an international reputation for research excellence, particularly in computer science and in the life sciences and nanosciences. The university is also distinguished by its close ties to France and its strong European focus. Around 17,000 students, studying over one hundred different academic disciplines, are currently enrolled at Saarland University. Saarland University is officially recognized as one of Germany’s family-friendly higher-education institutions and with a combined workforce of more than 4000 it is one of the largest employers in the region.

The Pharmaceutical Materials and Processing group at Department of Pharmacy is inviting applications for the following position commencing 01 November 2021

**Academic research assistant (m/f/x)**

**Reference number W1961**, salary in accordance with the German TV-L salary scale \(^1\), pay grade: TV-L E13, employment: 3 years, 50 % of standard working time.

**Workplace/Department:**
The Pharmaceutical Materials and Processing group (Jun. -Prof. Lee) is looking for a motivated Ph.D. student who evaluates the biological activities of polymeric nanorods. The current application of nanosystems in pharmaceuticals, such as Covid-19 vaccines, has drawn great attention to nanoparticles in biomedical applications. In our research group, we develop nanoparticles that effectively deliver drugs using bio-inspired polymers. In particular, we are interested in disease-specific polymers to form a nanoparticle that releases the encapsulated drugs at the target effectively. In this project, we work on pH-responsive polymers which form a nanorod by self-folding. By modifying the current nanorods in size, surface, and density, we evaluate those effects in biological systems.

**Job requirements and responsibilities:**
- Characterize polymers using various analytical skills such as CLSM, AFM, NMR, UV-Vis spectrometry, TEM, DLS, AFM, Raman spectroscopy, Mass spectrometry, SEC, and HPLC
- Control the polymerization, and characterize
- Organize the research plans and obtained results
- Write research papers
- Assist student supervision and teaching in German

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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.
Your academic qualifications:
• Completed scientific university studies in Pharmacy, Chemistry, Polymer Science, Material Engineering, Bioengineering, or relevant fields

The successful candidate will also be expected to:
• Very good knowledge in polymer chemistry and proven practical experience in polymer characterization
• Research experience in polymer or peptide characterization, nanoparticles, stimuli-responsive polymers is an advantage
• Highly motivated in learning new skills
• Ability to work independently, and also to work in collaboration
• Positive attitude in problem-solving
• Excellent writing and communication skills in English
• Excellent German-speaking and reading is an advantage

What we can offer you:
• A flexible work schedule allowing you to balance work and family
• A broad range of further education and professional development programmes
• 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 (’Jobticket’)

We look forward to receiving your (written) application. Please quote reference number W1961 when applying. Applications must be received by no later than 31 August 2021 and should be sent to the following address:
Universität des Saarlandes
Frau Jun. -Prof. Sangeun Lee
Pharmaceutical Materials and Processing
C4.1, Raum 1.15
66123 Saarbrücken
Email: Sangeun.lee@uni-saarland.de

Application documents will not be returned. Please only submit copies of your documents and do not use plastic wallets, folders, ring binders, etc.

If you have any questions, please contact us for assistance. Your contact:
Frau Jun. -Prof. Sangeun Lee
Sangeun.lee@uni-saarland.de

In accordance with the objectives of its equal opportunities plan, Saarland University seeks 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. The successful candidate has the option of choosing to work part-time in this position.

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.

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.