

PhD position at the Chair of Aroma and Smell Research, Friedrich-Alexander-Universität Erlangen-Nürnberg

A 4-year PhD position is available at the Chair of Aroma and Smell Research, Department of Chemistry and Pharmacy, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany, expected to start in June 2024. The position is funded by the German Research Foundation. The successful candidate will perform experimental and theoretical work to **investigate how different sensing principles and architectures can be used and optimized to detect odour-active compounds**. The project with the project number P8 is embedded in the Research Training Group (RTG) 2950 – Synthetic Molecular Communications Across Different Scales: From Theory to Experiments (SyMoCADS), Cluster 3: development of models, designs, and system architectures for airborne molecular communication. **The all-round aim is to achieve a better understanding of processes influencing the release, the propagation and the detection of odour plumes in nature and in technical systems.**

Tasks, amongst others, include:

- regular literature research
- self-organised research, in close collaboration with the principal investigator and project partners
- development and validation of technical systems for the detection of volatiles, using different detection methods (e.g., sensor systems, gas chromatography-olfactometry/mass spectrometry)
- scientific evaluation and interpretation of data, publication and presentation of results together with supervisors and partners
- support of general lab activities, e.g., instruments and sensory evaluations
- academic self-administration

Requirements

We are looking for a dedicated and skilled individual with the following qualifications:

- Master's or equivalent degree, preferably within chemical sensing and chemical sensor technology, engineering, physics, or related fields. To be considered for the position, it is a condition that your Master's degree is equivalent to a German Master's degree.
- Sound knowledge or prior experience in chemistry, physics, engineering, or related fields.
- Excellent communication and organization skills
- Fluent communication in written and spoken English
- Strong team player skills and enthusiasm for independent and self-organized project-based work in interdisciplinary environments
- Willingness to take over general laboratory work and tasks for academic self-organization

More information

More information about the Chair of Aroma and Smell Research can be found at <https://www.chemistry.nat.fau.eu/aroma-smell-research/>. For further information about the position, applicants may contact Helene Loos (helene.loos@fau.de). Employment is expected to start on June 1st, 2024.

Application

The application must include a cover letter, a curriculum vitae, as well as letters of recommendation and diplomas. The application must be sent in a single PDF file.

The closing date for applications is March 15, 2024. Candidates must address their application to Dr. Helene Loos and submit their application electronically via an e-mail to manisha.sinha@fau.de.