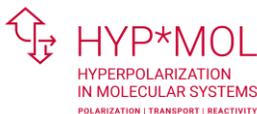




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The Gulder Group is a member of the University of Leipzig and the Saarland University, Germany. We are a dynamic, interdisciplinary lab at the interface of bioorganic chemistry, synthetic methodology, natural product synthesis, and medicinal chemistry. We are currently looking for a highly motivated

Ph.D. Student

with a strong background in **organic synthetic chemistry** and a strong interest in **peptide synthesis, flavin chemistry, photochemistry, and spin science**. Within the **TRR 386** ("Hyperpolarization in Molecular Systems," funded by the German Research Foundation (DFG)), we, together with our collaboration partners, are aiming to explore in an interdisciplinary approach photo-chemically induced dynamic nuclear polarization (photo-CIDNP), an effect migrating birds use for navigation. We aim to understand this effect to design artificial photo-CIDNP diads for MRI diagnostics.

You should be open to learning new methods and techniques to reach your research goals. It would be best to be comfortable carrying out your project independently but be motivated to collaborate with your peers and mentor other students.

As a TRR 386 PhD student, you will be part of an **inspiring network** of young scientists with access to an excellent **interdisciplinary training and qualification program** within our Integrated Research Training Group (IRTG). We offer goal-oriented staff development throughout your working life, with opportunities for continuing professional development at a modern workplace with attractive working conditions.

Suppose you are **enthusiastic** about science and wish to work on an exciting and challenging interdisciplinary research project from basic chemical science to medical applications within an international and competitive team; we offer you a fully funded Ph.D. position within our DFG-funded transregional **Collaborative Research Center TRR 386**, an interdisciplinary consortium of synthetic chemists, biochemists, spectroscopists, physicists, and theoreticians from Leipzig University, Chemnitz University of Technology, RWTH Aachen University, University of Augsburg, Technical University of Munich, Carl von Ossietzky University of Oldenburg, University of Rostock, and Saarland University. For more information on TRR 386, see <https://www.hypmol.net/>

Applications (single .pdf document) should include a **letter of motivation, a CV, an academic transcript of records, and contact information of two references**, preferably in English. Prospective PhD students should apply to tanja.gulder@uni-leipzig.de and refer to "**TRR 386_Project A03**" no later than **15 March 2024**.

Prof. Dr. Tanja Gulder

Professorship for Biomimetic Catalysis

University of Leipzig, Germany

Email: tanja.gulder@uni-leipzig.de Website: <https://www.uni-leipzig.de/en/gulder-group/>