

Hier
entsteht
Zukunft!



Foto: Oliver Dietze



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 Inorganic and Computational Chemistry Group at the Inorganic Chemistry Department is inviting applications for the following position commencing at the earliest opportunity.

Doctoral Research Position (m/f/x)

Reference number W2545, salary in accordance with the German TV-L salary scale¹, pay grade: E13 TV- L, duration of employment: 3 years, volume of employment: 50% % of standard working time.

Workplace/Department:

The Inorganic and Computational Chemistry group (ICCLab) seeks a qualified candidate for a PhD position for a project that aims at developing a family of s-block-based reducing reagents and exploring their reactivity. The group is known for research combining Inorganic and Physical Chemistry with a focus on synthesis under inert conditions.

The increasing demand for environmentally friendly reagents to perform sustainable chemical transformation has become of paramount relevance in current developments. The past years have brought fascinating discoveries of main-group-based species exhibiting low-oxidation states and/or metal-metal (Be-Be, Mg-Mg, Mg-Ca, Mg-Sr, Mg-Ba) bonds with excellent reducing properties. In this project, we aim at developing reductants featuring hitherto unknown s-block chemical bonds stabilized by specific ligands with tunable stereo-electronic properties. Your role in this project will initially be to synthesize the specific ligands with defined functionalities and stereo-electronic

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.

properties. You will then explore the stabilization provided to a series of s-block elements and survey the reactivity towards small molecules and unsaturated inorganic molecules.

This PhD position is part of a larger 5-years project, funded by the European Research Council (ERC Consolidator Grant MeMe-BONDS 101125599). Please contact Dr. Diego Andrada by email for further details.

Job requirements and responsibilities:

- Planning and conducting inorganic and organic chemical synthesis
- Creative advancement of own project
- Evaluating and assessing results
- Giving oral presentation of recent results
- Writing publications of results
- Maintaining the working standards in the laboratory, and maintenance of equipment
- Supervising Internships, Bachelor and Master Students

Your academic qualifications:

- Completed scientific university studies in Chemistry/or equivalent, with a strong background in Molecular Inorganic Chemistry.

The successful candidate will also be expected to:

- Experience in preparative inorganic/organometallic chemistry
- Experience working under inert conditions (Schlenk line, Glove box)
- Experience in standard chemical analysis (NMR, MS, IR, UV, CV, EPR, etc.)
- Experience with organic and inorganic synthesis, functionalization, and characterization techniques
- Knowledge in computational chemistry is beneficial but not required
- Have enthusiasm and high motivation to investigate thoroughly and accurately
- Be independent, proactive, and have a well-structured working style
- Have a creative mindset and excellent analytical and communication skills
- Good team spirit, collaborative team player, and affinity to work in an international environment
- German skills are an advantage but not required
- Be proficient in English for communication, both in writing and oral

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) including

- A cover letter (maximum 2 pages A4, font size 11), emphasizing your specific research interest, qualifications, and motivation to apply for this specific position
- A Curriculum Vitae with a list of publications (if there are)
- The contact details of 2-3 references
- Academic transcripts of your education (BSc, and MSc)

no later than **3rd of December 2024** to diego.andrada@uni-saarland.de. Please include the reference number **W2545** in the subject line of the e-mail.

If you have any **questions**, please contact us for assistance. Your contact:

Herr Dr. Diego Andrada

Inorganic Chemistry: Inorganic and Computational Chemistry

Tel.: +49-(0)681/302-71641

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.