

Ph. D. Position in Research on Magnetic Nanoparticles

Institute of Physical Chemistry

With approximately 50,000 students, the University of Cologne is one of the largest universities in Germany and ranks among the Excellence Universities. It employs over 600 professors and 7,000 academic and non-academic staff.

The research activities of the Physical Chemistry Institute are located at the boundary between chemistry, physics, and materials science, and are concerned with the relationship between molecular/nanoscale structure and the resulting physical properties of functional materials.

The research group of Dr. Sabrina Disch has a focus on the magnetic properties of nanoparticles and self-organized nanostructures using neutron scattering techniques as a principal characterization tool.

YOUR TASKS

- » participate in and conduct a research project investigating the magnetization distribution and dynamics in multi-component magnetic nanoparticles
- » active participation in research communication (seminars, conferences, publications in international journals) and the academic training of students
- » the project requires a significant amount of travel to external research facilities

YOUR PROFILE

- » excellent Master's Degree in chemistry, physics, or a closely related field
- » experience in either nanoparticle synthesis or X-ray/neutron scattering techniques
- » programming skills will be beneficial
- » we are looking for an enthusiastic and highly motivated candidate with the ability to communicate efficiently
- » good knowledge of the English language is essential

WE OFFER YOU

- » the opportunities to carry out an exciting research project, to work in a small research group with international outreach, and to qualify for a PhD degree
- » a diverse and fair working environment
- » support in reconciling work and family life
- » extensive advanced training opportunities
- » occupational health management offers
- » local transport ticket at a discount for UoC employees

The position is available from the 1. October 2018 on a part-time basis (50% position/19,92 hours). It is initially limited to a term of 1,5 years with option of extension by 1,5 years. If the applicant meets the relevant wage requirements and personal qualifications, the salary is based on remuneration group 13 TV-L of the pay scale for the German public sector.

The University of Cologne promotes equal opportunities and diversity in its employment relations. Women are expressly encouraged to apply and given priority in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We expressly welcome applications from individuals with severe disabilities or people of equivalent status. Severely disabled applicants of equal merit and qualifications will be given priority.

Please send your convincing application including a motivation letter addressing the sought qualifications, a CV, copies of certificates, and contact information for two academic references by email (in one pdf-file) with the reference number Wiss1804-09 to Dr. Sabrina Disch (pc-disch-jobs@uni-koeln.de). The application deadline is the 31. July 2018.