



MAX-PLANCK-GESELLSCHAFT

Fritz-Haber-Institut der Max-Planck-Gesellschaft

Anorganische Chemie

The Fritz-Haber-Institut (Anorganische Chemie) offers a **PhD position** for the study of **perimeter effects of bimetallic nanocatalyst systems** by means of **chemical electron microscopy**.

Research background and your tasks:

Within the interdisciplinary cluster of excellence “UniSysCat” (Unifying Systems in Catalysis), the local geometric and electronic structure of coupled catalytic systems will be investigated in order to understand the relation between structure and function.

The successful candidate will perform **chemical electron microscopy** to conclude on perimeter and structure in **bimetallic nanocatalyst systems**. The investigations will include **quasi in-situ electron microscopy** of the chosen system where the corresponding catalytic reaction is performed in a TEM-grid reactor. By combining the outcome of this work with the results of complementary techniques of the participating institutions, an improved understanding of coupled catalytic systems will be generated.

Your profile:

We are looking for an excellent, highly motivated scientist to join our team. Required qualifications include a successfully completed university degree (Master, Diploma or equivalent) in chemistry, physics or materials science. A background in heterogeneous catalysis and/or experience with transmission electron microscopy is advantageous.

We offer:

The PhD position will be for 3 years with a salary corresponding to 50% of E13 TVöD and the possibility of a recruitment bonus up to 20%. The Department of Inorganic Chemistry and its collaboration partners within the cluster of excellence “UniSysCat” provide a stimulating and international research environment. Berlin is a large, cosmopolitan and tolerant city that offers a wide variety of culture, art, music and outdoor opportunities.

Your application:

Please send your application documents including curriculum vitae, publication list, a short description of your previous research and the names and addresses of two referees by the 1st of February 2019 using the **reference “UniSysCat” in the subject heading** to

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The Max Planck Society aims to increase the participation of women in research. Therefore, applications by women are particularly welcome. Handicapped individuals are especially encouraged to apply. These applicants will be given priority in the case of equal qualifications.