



As a University of Excellence, Universität Hamburg is one of the strongest research universities in Germany. As a flagship university in the greater Hamburg region, it nurtures innovative, cooperative contacts to partners within and outside academia. It also provides and promotes sustainable education, knowledge, and knowledge exchange locally, nationally, and internationally.

The Faculty of Mathematics, Informatics and Natural Sciences, Department of Chemistry and Department of Physics invites applications for

15 RESEARCH ASSOCIATES (PHD STUDENTS) FOR THE PROJECT “NANOHYBRID”

- SALARY LEVEL 13 TV-L -

The positions in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commence on April 1 2020.

These are fixed-term contracts in accordance with Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed for a period of 3 years. The positions call for 50% of standard work hours per week.

RESPONSIBILITIES:

Duties primarily include academic services in the project named above. Research associates may also pursue independent research and further academic qualifications.

SPECIFIC DUTIES:

The DFG-funded Research Training Group **NANOHYBRID** (GRK 2536) includes 15 research projects in the fields of chemical synthesis, physical characterization, and theoretical modeling. Within a strongly interdisciplinary approach, the members of the Research Training Group will develop innovative methods to tailor the shape and function of nanoscopic systems using modern concepts of inorganic, macromolecular, and theoretical chemistry. In addition, they will develop techniques for building-up macroscopic assemblies and oriented arrangements of the nanostructures. They will work on applications of those nanostructures in macroscopic functional devices. Key elements of the research projects are semiconducting and metallic building blocks, which shall be combined to anisotropic heterostructures. In parallel, the hybrid structures can be bridged by functional molecules to form two-dimensional networks, or will be arranged within three-dimensional polymeric or inorganic matrices. An essential characteristic of the research and training program is the strong interaction between experiment and theory, which will lead to a deep understanding of the collective properties of inorganic hybrid structures.

Further information on the conception of the Research Training Group are summarized at: www.grk-nanohybrid.uni-hamburg.de

REQUIREMENTS:

A university degree in a relevant field, i.e., Chemistry, Physics, or Nanoscience.

Qualified disabled candidates or applicants with equivalent status receive preference in the application process.

For further information, please consult our website at www.grk-nanohybrid.uni-hamburg.de. Applicants shall firstly study the Research Training Group's web page to familiarize with the specific research projects of the scientific program and the application procedure.

Applications should include a prioritization of preferred research projects supported by a one-page motivation letter, curriculum vitae, the master thesis, and degree certificates. Please send applications as a **single PDF file** by **January 6, 2020** to: grk-nanohybrid@chemie.uni-hamburg.de.

Please do not submit original documents as we are **not** able to return them. Any documents sub-mitted will be destroyed after the application process has concluded.