



Universität Hamburg

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UHH · MIN-Fakultät · FB Chemie
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Prof. Dr. Gabriel Bester
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PhD position at University of Hamburg in the group “Theory of nanoscopic systems”

The successful applicant will join the group of [Prof. Bester](#) and work on a research project concerned with semiconductor and metallic nanoparticles and their interactions. We aim at a fundamental understanding of the mutual interaction between excitons and plasmons in semiconductor and metallic nanoparticles. For this aim, we combine ab-initio density functional theory techniques and quantum chemical configuration interaction approaches. Gained knowledge should be used to help design nanoparticles with specific properties.

The position is funded by the German Science Foundation within the [Research Training Group NANOHYBRID](#).



We expect a Master's degree or equivalent in physics, chemistry or related disciplines, preferably in the fields of theoretical condensed matter research or quantum chemistry. A candidate experienced with one or more of the following topics will be given priority:

- Excitons
- Plasmons
- Programming.

Applications including a CV, a documentation of academic record, a brief description of the Master thesis project, a motivation letter should be sent in a single pdf file to: e-mail: gabriel.bester@uni-hamburg.de with subject: GRAKO Position

The position can start as early as June. Application deadline is April 15th.

More information can be found at:

Group Web Page: www.chemie.uni-hamburg.de/pc/bester/index.html

The University of Hamburg is committed to employing more handicapped individuals and especially encourages them to apply. The University of Hamburg seeks to increase the number of women in those areas, where they are underrepresented and therefore explicitly encourages women to apply.