

**Ph.D. position: multi-scale simulations of chemical vapor deposition  
(Karlsruhe / Germany)**

We are looking for **Ph.D. students** with a background in modeling of carbon based materials, quantum mechanical calculations and/or reactivity of metal surfaces.

*Tailored scale-bridging approaches to computational nanoscience* (GRK 2450) is a new research training group funded by German Science Foundation. It includes different studies, including the mechanism of chemical vapor deposition of graphene and carbon nanotubes. These will involve **development** of DFT-based on-the-fly kinetic Monte Carlo multi-scale simulation techniques as well as its **applications** in predicting defect density of the materials.

- You shall be → M.Sc. graduate (f/m/x) in  
physical / theoretical chemistry,  
computational physics / chemistry,  
applied mathematics, or similar
- Apply by → **February 2, 2019**
- Positions start → **April 1, 2019**
- Duration → 3 years
- Salary (TV-L) → 75% E13, net: 1750 €/mo, +9% after 1 year
- Further info → [www.compnano.kit.edu](http://www.compnano.kit.edu), [ccl.net](http://ccl.net)
- Apply with → our secretary, [sabine.holthoff@kit.edu](mailto:sabine.holthoff@kit.edu)
- Address questions → Mariana Kozłowska,  
[mariana.kozlowska@kit.edu](mailto:mariana.kozlowska@kit.edu)