

PhD Student and Postdoctoral Positions for Explorative Nanoscale Science Investigations

Several experimental Ph.D. and postdoctoral or research associate positions are available in the fields physics of quantum materials and nanoscale supramolecular science with functional molecules.

Project topics include:

- **fundamentals of metal-ligand interaction at surfaces**
- **design of nanoporous networks to steer host-guest interactions**
- **new concepts for controlled molecular motion in nanoscale environments**
- **single-site and biomimetic heterogeneous catalysis**
- **electron confinement by molecular arrays on metal surfaces**
- **electronic properties of quantum materials and their interfaces**
(in cooperation with UBC Vancouver, Canada)

The methodological spectrum includes high-resolution scanning probe microscopy and modern X-ray spectroscopic tools. Work is oriented towards a fundamental understanding of processes at functional interfaces and the development of novel bottom-up fabrication techniques and advanced materials constructed from both inorganic and organic components.

The positions are partially provided by a ERC Advanced Research Grant and renewable up to 5 years.

Students and young researchers interested in interdisciplinary studies at the boundaries between physics, chemistry, and nanoscale science should send a resume including a brief statement of research experience / interests and references to:

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