

# Open PhD position in experimental physics



University of  
Zurich<sup>UZH</sup>

## What would you like to build today?

Are you interested in creating a quantum world, one atom at a time? Studying the spooky properties of artificial quantum matter? Exploring the limits of miniaturization of magnetic data storage? Are you interested in advancing the field of scanning probe microscopy?

In our group, headed by [Fabian Natterer](#), we use scanning probe microscopy based techniques like electron-spin resonance and pump-probe spectroscopy to explore dynamical properties of single atom magnets, magnetically frustrated matter, atomic/molecular quantum sensors and qubits for quantum computing.

We are looking for motivated candidates with a strong background in condensed matter physics seeking to excel in this interdisciplinary project. A successful candidate should be passionate about hands-on lab work that includes measuring, analyzing and disseminating SPM data. The candidate should display an eagerness to learn and apply new skills. Experience in coding (especially Labview and Matlab), operating SPMs, high-frequency electronics, as well as CAD modeling and the simulation of spin systems is desired.

The University of Zurich offers excellent research conditions and an attractive salary in a newly established group. Our small and dynamic group guarantees a flexible work environment and visibility at an early career stage.

A master degree in Physics or a related discipline and a strong command of English are required. Exceptional Bachelor candidates may be admitted either via the UZH fast-track program or via the intermediate realization of a Master project.

Contact Fabian Natterer for more details and send your application package, including CV, motivation letter, names and contact information of 2-3 references to

[fabian.natterer@uzh.ch](mailto:fabian.natterer@uzh.ch)

