



**UNIVERSITÉ
DE GENÈVE**

FACULTY OF SCIENCE
Department of Quantum
Matter Physics

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1 POSTDOCTORAL RESEARCHER POSITION

SCANNING PROBE STUDIES OF ORDERED ELECTRONIC PHASES AND SUPERCONDUCTIVITY

University of Geneva, Switzerland – Department of Quantum Matter Physics

The group of Prof. Renner at the University of Geneva in Switzerland is looking for a highly motivated postdoctoral scientist with a strong interest and documented background in condensed matter physics and low temperature scanning probes. The research topic is focused on detailed scanning probe (STM and AFM) studies of ordered electronic phases and superconductivity. In addition to tunneling spectroscopy and imaging, the selected candidate will contribute to developing novel instrumentation capabilities. The successful candidate will be involved in all aspects of the scientific project. The laboratory of Prof. Renner features two state-of-the-art combined low temperature STM/AFM with a range of in-situ evaporators for atomic-scale coating, LEED, RHEED, XPS, ion and hydrogen sources for surface characterization and preparation (see <http://dqmp.unige.ch/renner/> for more information). A new instrument for spin-polarized STM is under final assembly. The research projects will further benefit from close proximity to other laboratories, including crystal growth, transport properties and various materials characterization techniques, optical and other spectroscopic techniques, as well as device fabrication and a state-of-the art workshop.

You have a solid background in scanning probes, solid state physics, ultra-high vacuum and cryogenic environments. You are prepared to work hard in a very challenging field then you are welcome to send your application including curriculum vitae, a one-page description of scientific interests and motivations, your publication list and Master examination scores, and two recommendations.

The University of Geneva is offering a very stimulating academic environment and competitive salaries. The physics section counts many groups of top international level working on different aspects of new materials with novel electronic properties, both experimentally and theoretically. The University of Geneva further benefits from being located in the city centre and only a short distance from beautiful places along the lake and in the Alps. Applications will be considered until the position has been filled.

This is your opportunity to join a dynamic team and take advantage of performant equipment. For additional information, please contact at your convenience Prof. Christoph Renner.