UNIVERSITÉ DE GENÈVE
FACULTÉ DES SCIENCES
Département de physique de la matière condensée

MaNEP SWITZERLAND
NATIONAL CENTRE OF COMPETENCE IN RESEARCH
Materials with Novel Electronic Properties

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POSTDOC POSITION IN SCANNING PROBE STUDIES OF LOW DIMENSIONAL SUPERCONDUCTORS

University of Geneva – DPMC and NCCR MaNEP

The group of Prof. Renner at the University of Geneva, Switzerland, is looking for a postdoctoral collaborator to study graphene, intercalated graphite or intercalated dichalcogenide compounds in the Department of Condensed Matter Physics (DPMC) and MaNEP. Our research is focused on the electronic properties of correlated electron systems and low dimensional compounds using state-of-the-art scanning probe techniques (STM and AFM) in ultrahigh vacuum and variable temperature. The successful candidate will be in charge of new projects taking advantage of single and bilayer graphene samples to explore the mechanism of superconductivity in graphite intercalated compounds, or explore superconductivity in 1T-$TiSe_2$. He will be involved in all aspects of the project, including the planning, sample preparation, data acquisition and analysis.

A solid background and previous research experience in solid state physics is highly desirable. Preference will be given to candidates with experience in one or more of the following techniques: scanning probe microscopy (STM and/or AFM), tunneling spectroscopy, and the use of ultra high vacuum and cryogenic equipment. Applications should include a curriculum vitae, a list of exams passed during the Master studies (with grades), a one-page description of scientific interests and motivations, two recommendations and a list of publications.

The academic environment at the University of Geneva is very stimulating. The physics section is hosting the NCCR MaNEP and many groups of top international level working on different aspects of new *materials with novel electronic properties* (MaNEP), both experimentally and theoretically. Salaries are very competitive, and the University of Geneva benefits from being located in the city centre and only a short distance from beautiful places along the lake and in the Alps.

For additional information, please contact at your convenience Prof. Christoph Renner.

FNSNF Swiss National Science Foundation
The National Centres of Competence in Research (NCCR) are a research instrument of the Swiss National Science Foundation.