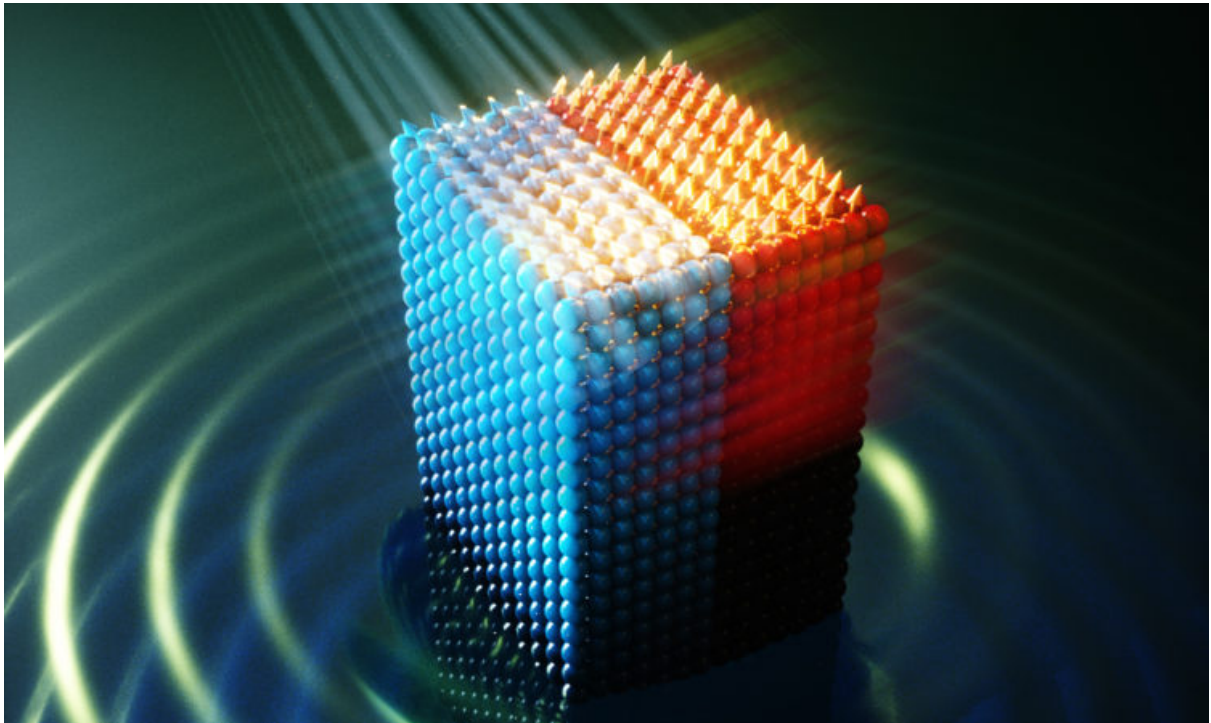


Postdoc position in Experimental Quantum Matter Physics

Laboratory for Designer Quantum Materials
Department of Quantum Matter Physics
University of Geneva



The Laboratory for Designer Quantum Materials invites applicants for a Postdoc position in Experimental Quantum Matter Physics

Start date: September 1st 2022

The project

Transition metal oxides exhibit some of the most interesting phenomena in condensed matter physics, from high temperature superconductivity to metal-insulator transitions. Synthesising these materials with advanced techniques allows for fine control over their interactions and electronic phases. In this project we will manipulate the atomic structure with picometer precision in order to control the electronic properties of quantum materials.

The candidate

We are looking for candidates with a strong background in condensed matter physics, interested in the physics of correlated materials in and out of equilibrium. Experience in thin film deposition and nanofabrication is required. Excellent communication and analytical skills are required. The candidate should aspire to perform research at the highest international level.

Our group

The Postdoc project will be carried out in the Laboratory for Designer Quantum Materials at the Department of Quantum Matter Physics of the University of Geneva. Our laboratory combines synthesis of heterostructure of quantum materials, with nanofabrication and advanced optical techniques for material control. The department is a major centre of Swiss research in the field of quantum matter physics, with strong collaborations between experimental and theory groups.

The principal investigator

The Postdoc project will be supervised by Prof. Andrea Caviglia, andrea.caviglia@unige.ch, +41223796495.

The candidate will also be required to participate in teaching and knowledge dissemination activities. Scientific writing of research papers is part of the responsibilities of the candidate.

We offer excellent employment conditions and a stimulating scientific environment located in one of the most liveable cities in the world, surrounded by natural beauty.

The application process

The application should be written in English and submitted to andrea.caviglia@unige.ch.

The application needs to include:

- 1) A motivation letter that discusses why you are applying to this specific project and why you would like to join our group.
- 2) A curriculum vitae.
- 3) A publication list.
- 4) A list of three scientists that can provide references.

The application process will remain open until the position is filled.