



**UNIVERSITÉ  
DE GENÈVE**

**FACULTÉ DES SCIENCES**

Département de physique  
de la matière condensée



**NATIONAL CENTRE OF COMPETENCE IN RESEARCH**  
Materials with Novel Electronic Properties

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## **POSTDOCTORAL POSITION IN THE TECHNOLOGY of SUPERCONDUCTING THIN FILM**

**University of Geneva - DPMC and NCCR MaNEP**

The group of Prof Michel Decroux is looking for a Postdoctoral collaborator to investigate the physical properties of HTC superconducting coated conductors for the development of Fault Current Limiter. Our research projects are conducted in collaboration with ABB, a world leading company in electrical power technology. The aim of these researches is to understand the physical factors limiting the use of superconducting thin films at high current density. These experimental observations are introduced into numerical models to evaluate the potential of improvement in order to propose ameliorations to overcome these limitations.

A solid background in condensed matter with experiences in low temperature physics is required. Additionally, some basic knowledge on numerical simulation programs will be appreciated.

Applications should include a curriculum vitae (including a publication list and 2 references), one page of scientific motivation and the list of exams passed during the Master.

The academic environment at University of Geneva is very attractive. The Physics Institute is hosting the National Center of Competence in Research MaNEP. Salaries are very competitive and the University of Geneva benefits from being located within the city at only short distance from beautiful places along the lake and the mountains

If additional information are required, please do not hesitate to contact Prof Michel Decroux

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**SWISS NATIONAL SCIENCE FOUNDATION**

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