

## METAL BOROHYDRIDES AS HYDROGEN STORAGE MATERIALS AND SUPERIONIC CONDUCTORS

Ph.D. studentship in Crystallography at the Laboratory of Crystallography  
University of Geneva, Switzerland

The Laboratory of Crystallography ([www.unige.ch/sciences/crystal/](http://www.unige.ch/sciences/crystal/)) at the University of Geneva ([www.unige.ch](http://www.unige.ch)) has an open *Swiss National Science Foundation* ([www.snf.ch](http://www.snf.ch)) funded *Ph.D. position* for the research on new *metal borohydrides* for *hydrogen storage* and *superionic conductor* applications.

The work includes the synthesis of borohydrides by *ball-milling* and *ab-initio* structural characterization by X-ray and neutron powder diffraction. The diffraction data will be collected at the modern synchrotron and neutron sources like ESRF Grenoble ([www.esrf.fr](http://www.esrf.fr)) and PSI Villigen ([www.psi.ch](http://www.psi.ch)). The structural characterization will use modern methods and software like Fox ([vincefn.net/Fox](http://vincefn.net/Fox)), Topas ([www.topas-academic.net](http://www.topas-academic.net)) and *Pair Distribution Function* analysis ([www.totalscattering.org](http://www.totalscattering.org)).

The position is available from May 2010 or later according to an agreement. The successful applicant should have a degree equivalent to an university diploma. A good background in general crystallography and solid state chemistry/physics would be an advantage.

To apply, please contact:

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