

Department of Mineralogy
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**UNIVERSITÉ
DE GENÈVE**

FACULTÉ DES SCIENCES

PhD position in Isotope Geochemistry – Metallogeny

University of Geneva (Switzerland)

Geochronologic and petrologic evolution of composite batholiths and the formation of giant porphyry-related Cu deposits

THE PROJECT: A PhD position funded by the Swiss National Foundation has become available at the Department of Mineralogy of the University of Geneva (Switzerland) starting from **1 January 2010**, in the frame of a large-scale ongoing project (Magmas, ore deposits and geodynamic evolution at convergent margins: the case of Ecuador and Peru). The aims of the project are to contribute to the understanding of the debated role of adakite-like rocks in the genesis of Cenozoic giant porphyry-type deposits of the Andes. In particular, through the investigation of two magmatic centers associated with giant porphyry-type mineralization (Junin, Ecuador and Tintaya, Peru) it will be sought to explore three main problematics: (i) Do adakite-like rocks suggest the occurrence of “instantaneous” and/or long-lived giant magmatic chambers in the lower crust?; (ii) Do they indicate a crustal stress regime favoring increased rate and focusing of magmas into the upper crust area where the giant porphyry system will form? (iii) Do adakite-like magmas contain anomalous metal and volatile concentrations?

YOUR PROFILE: A Diploma or Master degree (or equivalent) in Earth Sciences is a pre-requisite and experience in radiogenic isotopes and/or igneous petrology and/or ore deposits are considered a plus. Research in this project involves fieldwork in Ecuador/Peru and extensive analytical work with the radiogenic isotope and microanalytical facilities available in Geneva and Lausanne. We are seeking a highly motivated student who will study a hotly debated topic and will have the opportunity to work with a wide range of state-of-the art techniques. The student will have also to help teaching “practical courses” in French at the undergraduate level.

THE HOST INSTITUTION: The Department of Mineralogy of Geneva is one of the world’s leading centers in the fields of geochronology and ore deposits and, together with the Geosciences Institutes of Lausanne (65 km from Geneva), offers a broad range of analytical tools (TIMS for U-Pb, Pb, Sr, Nd isotopes, Ar-Ar mass spectrometry, fission track equipment, XRF, LA-ICP-MS, SEM and microprobe among others). For information about current and published research at our Department you may visit our website: <http://www.unige.ch/sciences/terre/mineral/>

DURATION OF THE PROJECT AND SALARY: The duration of the project is 3 years with the possibility of 1 year extension. Salary: 3300 CHF/month (1st year, gradually increasing on 2nd and 3rd years).

APPLICATIONS: Please send as soon as possible (1) your CV, (2) copy of university degree(s), (3) a short letter explaining your interest in the project and the reasons for undertaking a PhD study, and (4) names and complete addresses of two referees to **Dr. Massimo Chiaradia**. For further information contact:

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