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UNIVERSITÉ DE GENÈVE

## PhD position in Isotope Geochemistry - Metallogeny

*at the University of Geneva (Switzerland)*

### **Ore deposits and magmas at a convergent margin: the case of Ecuador**

**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 2006**, in the frame of a large-scale project that will study the relationships between Cenozoic to Recent porphyry-Cu/epithermal deposits and magma chemistry in Ecuador.

The aims of the project are: (i) reconstruct the geochemical evolution of magmatic centers associated with major mineralization of Ecuador during the Oligo-Miocene and the transition to the apparently barren post-Miocene adakitic magmatism using geochronological, geochemical and isotope tracing techniques; (ii) explore the relationships between changing magma chemistry and formation of the ore deposits; (iii) correlate such geochemical evolution to the geodynamic evolution of the Ecuadorian crust.

**YOUR PROFILE:** A Diploma or Master degree (or equivalent) in Earth Sciences is a pre-requisite and experience in radiogenic isotopes and/or ore deposits and/or igneous petrology are considered a plus. Research in this project involves two fieldwork campaigns in Ecuador, each one lasting approximately 1 month, and extensive analytical work at the radiogenic isotope laboratories of Geneva and at the microprobe and LA-ICP-MS in 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 leading European centers in the fields of ore deposits and geochronology and, together with the Geosciences Institutes of Lausanne (situated 65 km from Geneva), offers all the analytical tools needed to carry out successfully this project (TIMS for radiogenic isotopes and U-Pb dating, Ar-Ar mass spectrometry, XRF for major and trace element geochemistry, LA-ICP-MS and microprobe for melt inclusion studies). For information about current and published research at our Department you may visit our website: <http://www.unige.ch/sciences/terre/mineral/>

**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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