



**UNIVERSITÉ  
DE GENÈVE**

**FACULTY OF SCIENCE**

Department of Earth Sciences

## **PhD opportunity in high-precision time-scale calibration at the University of Geneva, Switzerland**

The Earth Science Department of the University of Geneva, seeks applications for a PhD position in high-precision time calibration of Early-Middle Triassic climate variations recognized in marine sedimentary sequences.

The candidate will acquire high-precision U-Pb zircon ages by chemical-abrasion, isotope-dilution TIMS from volcanic ashes inter-bedded with fossiliferous marine sediments. She or he will join a multidisciplinary group of geologists to carry out fieldwork and sample collection in different areas, such as, e.g., on the Arab peninsula or in USA/Canada. The project will also involve high-resolution oxygen and carbon isotope analyses, trace-element and Hf isotope analyses on accessory minerals from the dated ash beds, and calculation of Bayesian age-depth models from sedimentary sequences.

The project is part of an interdisciplinary research effort to achieve a fully consistent, time-resolved and global environmental model for the high-frequency and high-amplitude climate changes at the end of the early Triassic. The research team from Universities of Zürich, Lausanne and Geneva will comprise 6 PhD students and 5 researchers in paleontology, geochemistry, geochronology and probabilistic climate modeling, funded by the Swiss National Foundation for Scientific Research for 4 years. The successful candidate will take different short courses on relevant topics in the frame of this interdisciplinary research program.

We invite applicants with a MSc., Diploma, high-ranking BSc. (honors; 1st class or 2-1), and/or equivalent degree(s) in Earth Sciences. The successful candidate should have previous experience performing geochemical analyses in a clean laboratory environment, and an affinity for working with analytical equipment, especially mass spectrometers. The ideal candidate is demonstrably careful and disciplined, as well as ambitious and keen on working in a multidisciplinary, multicultural and multilingual environment. The candidate should have an aptitude for quickly learning new skills. Reasonable fluency in speaking, reading and writing scientific English is required. The project starts 1st November 2018.

The University of Geneva, as a part of the ELSTE community (Earth Science Sections of the Universities of Lausanne and Geneva), offers state-of-the-art analytical facilities. For more detailed descriptions see: <http://www.unige.ch/sciences/terre/en/earth-sciences-department/>

Applications (including a CV, a list of three referees, and a statement about motivation and career planning) should be sent as one pdf file to Prof. Urs Schaltegger ([urs.schaltegger@unige.ch](mailto:urs.schaltegger@unige.ch)) before June 10, 2018. The position is open for citizens of the European Union/AELE and Swiss citizens. Selected candidates will be invited for a one-day recruitment workshop at the end of June 2018.