

The Cologne Luminescence Laboratory at the Institute of Geography, University of Cologne, Germany invites applications for a

Post – Doctoral Position in luminescence dating

starting August 1st 2017 or later with a weekly working time of 39,83 (100% position) in a DFG-funded project focused on extending the age range of luminescence dating. The contract will be for 3 years in the first instance, with the potential for extension. Payment is based on the German TV-L E13 scale if terms and conditions under collective bargaining law are fulfilled.

The successful candidate will explore the potential of violet stimulated luminescence and thermally-transferred OSL to develop a chronology for specific sites in two Collaborative Research Centres: CRC 806 “*Our Way to Europe. Culture-Environment Interaction and Human Mobility in the Late Quaternary*”, and CRC 1211: “*Earth Evolution at the Dry Limit*”.

The CRC 1211 started in 2016 and will run to mid-2020 in its first phase; it has the potential to be extended for two further 4-year periods. In close collaboration with colleagues of other sub-projects within the CRC, the post-doctoral researcher will help to establish a chronology for a 60 m sediment core that will be taken in November 2017. The luminescence data will be combined with radiocarbon dating, tephrochronology and palaeomagnetism to enable the development of a robust palaeoenvironmental record for this hyper-arid region. In addition to methodological research, the post-doctoral researcher will also have the opportunity to contribute to other sub-projects within the CRC by providing chronological data.

The Cologne Luminescence Laboratory, within the Institute of Geography of the University of Cologne, hosts state-of-the-art luminescence dating equipment, including 5 Risø TL/OSL readers (three with single-grain attachments), a Lexsyg Research instrument equipped with a CCD camera, as well as two high-precision Ge gamma spectrometers and beta counting facilities. As part of this project a further Risø TL/OSL reader, equipped with a violet laser, has been purchased and will be delivered later in 2017.

Candidates who have worked extensively with luminescence dating during their PhD and/or early post-doctoral research careers are strongly encouraged to apply. In addition to laboratory work, there will be fieldwork opportunities and funding is available for the presentation of results at international conferences.

The University of Cologne is an equal opportunities employer. Applications of women are especially encouraged. Disabled candidates will be given priority in case of equal professional qualification.

Enquiries and applications comprising a CV, statement of motivation, statement of research and the names of two referees should be sent as a single PDF **until 30 June 2017** to Georgina King (georgina.king@geo.unibe.ch) and Dominik Brill (brilld@uni-koeln.de).