



Karlsruhe Institute of Technology



The Institute of Geography and Geoecology (IfGG, <https://www.ifgg.kit.edu/english/index.php>) at the Karlsruhe Institute of Technology (KIT) invites applications for

one **Ph.D. position** (TV-L E 13, 65%) in the project

Sources of Oxygenated Polycyclic Aromatic Hydrocarbons (OPAHs) in soils – a compound-specific stable isotope approach

funded by the German Research Foundation (Deutsche Forschungsgemeinschaft, DFG)

### **Responsibilities**

The task of the position is to develop compound-specific stable isotope ratio measurement methods of H and C in polycyclic aromatic hydrocarbons (PAHs) and their oxygenated derivative (OPAHs) using a GC-IRMS device. The method will be applied to soil and aerosol samples that will be collected in and around the city of Karlsruhe. Moreover, experiments to investigate into the photochemical transformation of PAHs to OPAHs and the thermal production of OPAHs will be conducted. Presentation of the results at national and international conferences and publication in peer-reviewed international journals is expected.

### **Requirements**

We are looking for a dynamic, serious, and motivated researcher with a Master degree in Geoecology, Geochemistry, Geoscience, Environmental Sciences or related disciplines. The successful candidate should have basic knowledge of stable isotope geochemistry and the fate of persistent organic pollutants in the environment. Furthermore, we expect laboratory experience in environmental chemistry and knowledge of gas chromatographic methods. Previous experiences in (isotope ratio) mass spectrometry are an advantage. Good communication skills and fluency in English are required.

### **Our offer**

The appointment is for three years and allows for the completion of a doctoral thesis. The position can be filled as soon as possible. The salary is according to the German tariff level TVL E13 with 65% of the usual working time including social benefits. The position will be located in the group of Geomorphology and Soil Science at the Institute of Geography and Geoecology in Karlsruhe. We are an international research group in a lively university environment in Karlsruhe ([www.kit.edu](http://www.kit.edu)) at one of the eleven German Excellence Universities. Our institute is located in the city center of Karlsruhe and can be easily reached with public transport or bike.

### **Application**

Applicants are asked to send a statement of motivation, CV, scans of certificates including marks, and names (with e-mail addresses) of two referees by e-mail in **one single** pdf file to Prof. Dr. Wolfgang Wilcke ([wolfgang.wilcke@kit.edu](mailto:wolfgang.wilcke@kit.edu)). The evaluation procedure will start on 15 September 2024. The position will be open until a qualified candidate is identified. KIT aims at balancing the number of female and male employees. We therefore particularly encourage female applicants to apply for this job. If similarly qualified, handicapped applicants will be preferred.