



Department 7: **Natural and Environmental Sciences** at the **Campus Landau** is looking for  
**a scientist (0,65 EGr. 13 TV-L)**

at the **Institute for Environmental Sciences**, temporary for the period of two years in the research project „BAC-SWR: Impact of bacterial biomass on soil water repellency“. The position is subject to the German law on fixed-term contracts in science (WissZeitVG).

### **Tasks:**

The DFG project “Impact of bacterial biomass on the surface wettability of soil particles under varying moisture conditions” aims at the understanding of the degree in which bacterial cells and their residues contribute to the appearance and persistence of soil water repellency (SWR) and whether adaptation of bacteria to water and salt stress may explain the often observed enhanced repellency after strong drying events. These questions shall be answered by several closely linked experiments in cooperation with Dr. Marc-Oliver Göbel (Leibniz Universität Hannover) and Dr. Anja Miltner (Helmholtz-Zentrum für Umweltforschung in Leipzig) (further information: [www.uni-koblenz-landau.de/de/landau/fb7/umweltwissenschaften/uchemie/projekte/bac-swr](http://www.uni-koblenz-landau.de/de/landau/fb7/umweltwissenschaften/uchemie/projekte/bac-swr)).

The task of the scientist is the characterization of cells, fragments, minerals and associations using atomic force microscopes (AFM) with regard to nanomechanical and physico-chemical properties. The responsibility also includes the development and implementation of new AFM methods, e.g. the application of chemical force microscopy (CFM) in different media (air and liquids).

Apart from this employment, the possibility of further academic qualifications (for example, PhD) is offered and strongly supported. For further information, please contact Dr. Dörte Diehl ([diehl@uni-landau.de](mailto:diehl@uni-landau.de)).

### **Requirements:**

Graduation at a university or a comparable institute with focus on physics, chemistry or environmental chemistry excluding bachelor degree. Knowledge in physical chemistry, a very good vision, the willingness to develop new methods at the AFM and good command of English is required. Experiences with AFM are beneficial.

It is the policy of the University of Koblenz-Landau to increase the percentage of female employees. If equally qualified, preference will be given to female applicants in fields where they are underrepresented. Disabled candidates are given priority, if equally qualified (certificate required).

The applicants should send their documents (vita with scientific curriculum, certificates, publication lists, research interests etc.) until **25.09.2016** quoting the reference number **Ld 08/2016-W** exclusively via email to Dr. Dörte Diehl ([diehl@uni-landau.de](mailto:diehl@uni-landau.de)).

We do not send a confirmation of receipt. In accordance to the protection of data privacy all documents will be destroyed after the application procedure.