



UNIVERSITÄT KOBLENZ · LANDAU

The Institute for Integrated Natural Sciences, Department of Physics, University Koblenz-Landau, Campus Koblenz, is inviting applications for a

Doctoral Position Material Science/Polymer Engineering (1,0 EGr. 13 TV-L)

which is subject to the German law on fixed-term contracts in science (WissZeitVG). The position is for a fixed period until March 31st, 2021 and is to be filled at the earliest possible date. The successful candidate will work in the [Material Physics Group](#) of the University Koblenz-Landau. A subsequent fixed-term employment is possible.

Topic:

The project deals with the development of new materials for thermoplast tape laying. Tape laying is an additive process in which a unidirectional, endless fiber reinforced tape is locally molten and placed onto a mold or component. In this way locally reinforced or multi layered structures for high performance, light weight applications, e.g. in the automotive sector, are obtained. The goal of the current project is to improve the adhesion/bonding of the thermoplastic tape to non-identical materials. The project will be a joined collaboration with Capricorn Composite GmbH (<http://www.capricorngroup.net/en/>) and A+Composites GmbH (<http://www.aplus-composites.de/>).

Requirements:

The successful candidate requires a master degree in Polymer Engineering, Chemical Engineering, Material Science or similar fields. Proven theoretical and practical experience in polymer additives and/or functionalization and thermoplast processing (in particular extrusion, compounding), good English communication skills and the ability to work in an interdisciplinary team are mandatory. Additional knowledge in one of the following disciplines is desirable: polymer characterization in particular mechanical characterization, (endless) fiber reinforced polymer materials, thermosets, adhesives and tape laying. Very strong problem-solving skills, willingness to learn, ability to work independently, experience in writing publications and good presentation skills are essential. The position also includes close interaction with the collaborating companies and frequent stays at their sites.

Please contact Prof. Dr. Silke Rathgeber (phone: +49 (0)261/287-2353 or e-mail: rathgeber@uni-koblenz.de) for further information.

It is the policy of the University 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. International candidates are highly encouraged to apply.

Applications should include a letter of motivation, complete curriculum vitae with a list of publications and presentations, certificates etc.. Please send your application, quoting the **reference number Ko 28/2018**, before **October 02nd, 2018** by e-mail in a single PDF file to bewerbung-K21@uni-koblenz.de. Late applications can be considered until the position is filled.

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.