A 2-year

PhD position (scientific assistant)

funded by third party is available in the lab of Prof. Dr. Gabriele Taentzer, Faculty of Mathematics and Computer Science, Philipps-Universität Marburg, starting at the **next possible date**.

Project background

In the context of the DFG priority program "Design for Future – Managed Software Evolution" the aim is to improve the versioning of models of model-based software projects. Versioning concepts, algorithms, and tools for software models shall be lifted from a low level to a higher, user-friendly abstraction level. This aim includes the specification and recognition of complex edit operations as well as detecting conflicts and merging model evolutions on the level of edit operations. All main model versioning concepts shall be formalized by graph transformation concepts in order to reason about complex model modifications and their interrelations. To check the technical feasibility of our approach, we choose the widely used Eclipse Modeling Project (EMF) as technical space. The possibility for further scientific qualification is given.

Profile of the candidate

We are looking for a motivated person interested in the topic above and with a German diploma, master, or a comparable degree in computer science or a related field. Candidates should have an excellent knowledge in model-driven software development, especially EMF and model transformations, very good practical skills in Java programming as well as good knowledge of graph transformation concepts. Some knowledge of German is desirable. Salary and benefits are according to a public service position in Germany (TV-H E 13) and amount to ca. 40.000 € a year depending on experience and family status.

The Philipps-Universität Marburg advocates gender equality. Women are therefore strongly encouraged to apply. We welcome applicants with children – as the Philipps-Universität considers itself a familyfriendly university. Working hours can be adapted to special family needs. Physically challenged applicants will be given preference in case of equal qualification.

Please send photocopies of any documents only, as we cannot return the material. Please note also that we cannot refund application and travel expenses. For scientific enquiries contact Prof. Dr. Taentzer (taentzer@mathematik.uni-marburg.de)

Please send your application mentioning registration number fb12-0003-wmz-2013 including a letter outlining your suitability for the post, a detailed CV, contact details of 2 referees, a copy of your diploma thesis and/or other exams, and, if applicable, a list of publications to Prof. Dr. Taentzer, Faculty of Mathematics and Computer Sciences of the Philipps-Universität Marburg, Hans-Meerwein-Straße, 35032 Marburg, Germany. Deadline is May 2nd, 2013.