Within the Collaborative Research Center “Wave phenomena – analysis and numerics” (CRC 1173) we are currently seeking to recruit, as soon as possible, limited to three years, a

**Doctoral Researcher (f/m/d – 75 %)**
for the project B8
“Theory and numerics of the coupled Maxwell–Landau–Lifshitz–Gilbert equations”

The CRC has been funded by the German Research Foundation (DFG) since 2015. Its goal is to analytically understand, numerically simulate, and eventually manipulate wave propagation under realistic scenarios by intertwining analysis and numerics.

The proposed doctoral project focuses on numerical methods to simulate dynamical effects of magnetised material.

We seek an ambitious doctoral researcher with an interest in numerical simulation of partial differential equations. Within the project, you will learn about the simulation of time-dependent problems in a high-performance space-time setting. You will have the opportunity to attend courses, conferences, workshops, and summer schools. Engagement in teaching is encouraged.

We provide an inspiring, attractive, interdisciplinary, and internationally recognized scientific environment with access to excellent facilities of the KIT, a wide scope of advanced training options within our integrated research training group, and flexible working time models. Our CRC aims at the implementation of equal opportunities, it promotes diversity and supports persons with childcare or eldercare responsibilities as well as persons with disabilities. Funds for travel and guests are available through the CRC.

**The following qualifications are required:**
- Excellent Master or an equivalent degree in Mathematics.
- Strong background in numerical methods of partial differential equations and experience with C++.
- We expect good writing and oral communication skills in English along with the ability to work independently within an international team.

Applications should include a cover letter, a curriculum vitae, a statement of research interest, contact information for two referees, and copies of degree certificate(s) in one pdf.

**We offer** an attractive and modern workplace with access to excellent facilities of KIT, diverse and responsible tasks, a wide scope of advanced training options, supplementary pension with the VBL (Pension Authority for Employees in the Public Service Sector), flexible working time models, a job ticket (BW) allowance, and a cafeteria/canteen.

**We prefer** to balance the number of employees (f/m/d). Therefore, we kindly ask female applicants to apply for this job. If qualified, severely disabled persons will be preferred.

Please apply electronically via office@waves.kit.edu until May 31st, 2022. For further information about the project, please contact Prof. Dr. Willy Dörfler, or Ms. Laurette Lauffer, laurette.lauffer@kit.edu .

Further details can be found on our website: www.kit.edu.

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