**Assistant Professor (without Tenure Track) in Fixed-Point Numerical Algorithms (W1)**

### Job description:
The focus of the professorship is on innovative methods of numerical linear algebra for exascale computing. You should work in one or more of the following topics:

- Development of fixed-point based, efficient algorithms on modern and future hardware architectures;
- Reformulation of mathematical problems as fixed-point iterations;
- Realization of modules for large-scale scientific simulations;
- Software development, especially Continuous Integration;
- Interdisciplinary work between Mathematics, Informatics and Computational Science & Engineering

In addition, you have experience in working within the Helmholtz program-oriented funding, in particular in the program "Supercomputing and Big Data" and you are willing to participate in the future program "Engineering Digital Futures". Furthermore, you are willing to offer courses in the elective areas of study of the KIT Department of Informatics. You have gained international experience after completing your dissertation and have already successfully obtained additional funding from national and international funding sources in competitive calls for proposals.

The candidate is expected to actively shape research at KIT, to advance the personal development of her/himself and independently supervise doctoral researchers as well as graduate and undergraduate students. The new professor shall successfully combine collaborative work attitude with strong communication skills.

### Qualification:
In addition to outstanding scientific achievements, such as those achieved as part of an excellent dissertation, the successful acquisition of an externally evaluated junior research group is a prerequisite. Additionally, according to § 51 of the Baden-Wuerttemberg University Act (Landeshochschulgesetz des Landes Baden-Württemberg), a university degree, teaching aptitude and exceptional competence in scientific work are required. The evaluation process and the evaluation criteria are according to the principles outlined in the KIT document „Qualitätssicherungskonzept für Juniorprofessuren und Tenure-Track-Professuren am Karlsruher Institut für Technologie (KIT)“. In addition, the evaluation puts special emphasis on commitment to the Helmholtz program. For career development, an accompanying procedure and proper mentoring are offered.

### Institute:
Division II - Informatics, Economics, and Society, Department of Informatics, Institute of Theoretical Informatics (ITI)
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<thead>
<tr>
<th><strong>Contract duration:</strong></th>
<th>The initial appointment is for six years as a temporary civil servant or as an employee. An interim evaluation is carried out in the third year of service followed by a final evaluation at the end of the appointment phase.</th>
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<td><strong>Starting date:</strong></td>
<td>as soon as possible</td>
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<td><strong>Application up to:</strong></td>
<td>14.04.2019</td>
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<td><strong>Contact person in line-management:</strong></td>
<td>For specific enquiries regarding this position please contact Prof. Dr. Ralf Reussner, email: <a href="mailto:ralf.reussner@kit.edu">ralf.reussner@kit.edu</a>.</td>
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<td><strong>Application:</strong></td>
<td>Applications with the required documents (curriculum vitae, degree certificates as well as a list of publications) and a perspective paper (maximum of two pages) should be sent by email, preferably compiled into a single PDF document, to <a href="mailto:dekanat@informatik.kit.edu">dekanat@informatik.kit.edu</a>.</td>
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<td>KIT is an equal opportunity employer. Women are especially encouraged to apply. Applicants with disabilities will be preferentially considered if equally qualified.</td>
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