

TU Dortmund University is a dynamic research-oriented university with 17 departments in the natural and engineering sciences as well as social and cultural sciences. On our international campus, around 6,700 employees make a daily contribution to solving pressing questions of the present and the future. Openness and diversity characterize not only the collaboration in research and teaching, but also in technology and administration.

Research Assistant or Postdoc

The Department of Embedded Systems at the Faculty of Electrical Engineering and Information Technology has a vacancy for a research employee or Postdoc for a limited period of 3 years. The duration of the contract will be appropriate to the qualification goal. Remuneration will be paid in accordance with the collective bargaining regulations according to pay group 13 TV-L. This is a full-time position. Employment on a part-time basis or a reduction to part-time is possible. The possibility of a doctorate or habilitation is given.

Your tasks:

You will contribute to our activities for developing innovative, intelligent and connected embedded systems where performance, predictability and self-adaptability play an important role. Particular focus is on the following areas:

- System-level performance analysis of highly parallel and heterogeneous embedded architectures, in particular Multiprocessor Systems-on-Chips (MPSoCs),
- Efficient and predictable (formal) solutions for guaranteeing end-to-end QoS in dynamic distributed systems,
- Hardware and software co-design of adaptive (learning) methods for autonomous systems,
- Assistance in the organization and implementation of teaching courses (Bachelor & Master level) is also expected (4 SWS).

What we offer:

- Exposure to state-of-the-art research topics in cooperation with researchers from renowned universities,
- Collaboration with industrial partners and application of research results in the fields of mobility, avionics, IoT and smart grids,
- Working in an international and interdisciplinary research environment,
- Contribute to fundamental research and technology development,
- Diverse opportunities for scientific & personal development,
- Support in balancing work and family life and working in a dedicated team.

Your qualification:

- A completed scientific Master or Doctorate degree in electrical engineering or computer sciences with excellent grade. For candidates

with a doctorate degree, excellent publication record in peer-reviewed international conferences.

- Ability to conduct independent scientific research,
- Very good English skills, knowledge of the German language is preferable.

What would you ideally bring:

- Prior knowledge and work related to the aforementioned topics,
- Willingness to collaborate in national and international interdisciplinary scientific exchange,
- Very good organizational, communication skills and high personal commitment.

We promote diversity and equal opportunities. Convince us with your personality and expertise. Applications from women will be given preferential treatment in accordance with the statutory regulations.

It is pointed out that the application of suitable severely disabled persons is desired.

If you are interested, please apply by 07.06.2022 with the usual documents, stating the reference number w38-22:

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Informationstechnik
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