

At the Brandenburg University of Technology Cottbus-Senftenberg, one position is available in the **Faculty of STEM - Mathematics, Computer Science, Physics, Electrical Engineering and Information Technology** in the **Department of Computer Engineering** in Cottbus as part of third-party funded research projects, starting as soon as possible:

Academic Staff (m/f/d)
Full-time, E 13 TV-L, limited until 01.12.2024
Reference number: 35/24

The Department of Computer Engineering at the Brandenburg University of Technology Cottbus-Senftenberg is engaged in research and teaching on the conception, architecture and realization of energy-efficient computing systems. The main areas of research are:

- Development of new methods and techniques for the conception and realization of heterogeneous computer architectures, in particular using reconfigurable logic components and microcontrollers.
- Measurement and design of energy efficient video communication solutions.
- Accurate and fast simulation of embedded systems.
- Development of modern methods and frameworks for the design of energy-efficient embedded computing systems and their programming.

Our research approaches are used in diverse applications such as modern industrial processes (including predictive maintenance), video communications, fast data transmission (5G), health applications (wearable sensors for diagnostics) and for fast signal processing (optical, radar) using artificial intelligence.

These are your tasks:

Carrying out scientific research work in one of the projects funded by BMDV:

- Implementation and analysis of 5G interfaces for medical devices
- Preprocessing and compression of medical data
- Analysis and optimization of the transmission channel

Further activities include:

- Lecturing and publishing on the research topic
- Preparation of contributions for reports and presentations
- Other research-related administrative tasks

You can offer:

You have successfully completed a scientific university degree (Master's degree, university diploma or equivalent) in a scientific field relevant to the position, e.g. computer science. You also bring with you the ability to work scientifically, independence, flexibility and good communication skills. With the ability to think analytically and to work diligently and conscientiously, you are an ideal addition to our interdisciplinary team.

For further information about the vacant position, please contact Dr.-Ing. Christian Herglotz (e-mail: christian.herglotz@b-tu.de, Tel.: +49 (0)355 / 69-2026).

We offer you:

You can expect exciting and varied tasks in a highly innovative research project with several partners. You will participate in international conferences with corresponding publications. The work in the project is ideally suited for a doctorate. In the case of a prospective qualification, opportunities for further employment will be sought after the project has ended.

Extensive opportunities for flexible working hours await you, such as home office, in order to enable a better compatibility of family and career and to achieve higher work and result satisfaction through more self-responsibility in the design and execution of your work.

Become a part of the BTU family. We look forward to getting to know you.

The BTU Cottbus-Senftenberg is committed to equal opportunities and diversity and strives for a balanced gender ratio in all employee groups. Persons with a severe disability and their equals are given priority in the case of equal suitability. The BTU aims to increase the proportion of women in research and teaching and therefore strongly encourages qualified female applicants to apply.

Application photos are not required.

Please note the more detailed information on the selection procedure on the BTU Cottbus-Senftenberg website.

Please send **applications, quoting the reference number**, by 29.02.2024 **exclusively by e-mail in PDF format** to the **Head of the Department of Computer Engineering**, Dr.-Ing. Christian Herglotz, Brandenburg University of Technology Cottbus-Senftenberg, e-mail: christian.herglotz@b-tu.de



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