At the Brandenburg University of Technology Cottbus-Senftenberg, the following 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 a third-party funded research project, starting as soon as possible:

**Two Academic Staff (m/f/d)**
**Full-time, E 13 TV-L, limited until 01.12.2024**
**Reference number: 30/22**

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

- Development of new methods and techniques for the conception and realisation of heterogeneous computer architectures, in particular using reconfigurable logic components and microcontrollers.
- Design of novel processors using non-volatile memory technologies (RRAMs)
- 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), 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 the joint project: "THIEMCB5G - Digitales Leitkrankenhaus: Carl-Thiem-Klinikum gGmbH", in particular:

- Implementation and evaluation of an RFID system in a medical environment
- Realisation of gateways for protocol translation 5G/RFID
- Selection and programming of 5G-IoT modules
- Integration of the components into the overall system

Further activities include:

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

**What you bring with you:**

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. Marc Reichenbach (e-mail: marc.reichenbach@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 10.03.2022 exclusively by e-mail in PDF format to the Head of the Department of Computer Engineering, Dr.-Ing. Marc Reichenbach, Brandenburg University of Technology Cottbus-Senftenberg, e-mail: marc.reichenbach@b-tu.de