At the Brandenburg University of Technology Cottbus-Senftenberg – in the faculty of Mathematics, computer science, physics, electrical engineering and information technology at the chair of wireless systems approval - the following position is to be filled in the project Innovation campus II

**academic staff (m/f/d) in the field of wireless systems**  
limited until probably 30.06.2024, full time, E 13 TV-L  

**code number: 16/22**

The Wireless Systems group is concerned with modelling different dependencies (e.g. reliability and security) in individual systems and networked devices. In current projects, the FG is investigating the application of AI methods in the area of IT security and predictive maintenance. The department is contributing these findings to the Mittelstand 4.0 competence centre in Cottbus and to the CyberSecurity master's degree programme.

The main objectives of the 5G-Connected Sensing sub-project of iCampus II are to provide a 5G platform for general multi-sensor systems and to develop and analyse methods for optimising the operation of 5G multi-sensor networks. In addition, the potential of 5G for new applications in the areas of Industry 4.0 and integrated energy systems, which are highly relevant for structural change, is to be demonstrated.

The tasks of the wireless systems department include the definition and implementation of stressors for above-mentioned 5G networks, i.e. the determination of possible faults and attacks, the investigation of AI-based methods for determining the current network state as well as their efficient implementation.

These are your tasks:
- Scientific work within the scope of the research focus of the department,
- In particular, collaboration in the preparation and implementation of the joint project "Innovationscampus Elektronik und Mikrosensorik, Cottbus (Phase II) -icampus2, sub-project 5G Connected". The focus is on AI methods as a means to improve reliability of 5G networks
- Lectures and publications on the research topic, preparation of contributions for reports and presentations
- Other research-related administrative tasks

Requirements:
You have successfully completed a scientific university degree as defined in the pay scale for the TV-L (accredited Master's degree / university diploma / equivalent) in a subject relevant to the job (computer science, electrical engineering, applied physics or comparable).

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 Prof. Dr. Peter Langendörfer (E-Mail:peter.langendoerfer@b-tu.de Tel.: +49 (0)335 5625-350).
We offer you:

- Exciting and varied tasks in a highly innovative research project.
- Modern infrastructure with high development and creative potential as well as an international team.
- Extensive opportunities for flexible working hours, such as home office, to enable a better work-life balance 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 will be given priority in the case of equal suitability.

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, exclusively by e-mail in PDF format by 08.03.2022 to the Head of the Wireless Systems Department - Prof. Dr. Peter Langendörfer, Brandenburg University of Technology Cottbus-Senftenberg, e-mail: peter.langendoerfer@b-tu.de.

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