The Brandenburg University of Technology (BTU) Cottbus-Senftenberg is a research-oriented university that combines its role as the central university of Lusatia with a strong international perspective. It offers a combination of basic and application-oriented research with a focus on the environment, energy, materials, construction, health, and information and communication technology.

The Faculty 1 MINT - Mathematics, Computer Science, Physics, Electrical Engineering and Information Technology invites applications for a

**Professorship (W2) Distributed Measurement Systems and Sensor Networks (Joint professorship, Jülich model)**

in personal union

with the leadership of the group “Wireless Sensor Networks and Middleware Plattforms” of IHP - Leibniz Institute for High Performance Microelectronics

commencing at the earliest opportunity.

The future holder of the professorship "Distributed Measurement Systems and Sensor Networks" should represent this field in research and teaching, especially in the context of the Cyber-Security Master's programme, and should have excellent scientific credentials in the field of Distributed Measurement Systems and Sensor Networks. The successful candidate should have several years of successful research and development work in this field. Since the professorship is associated with the leadership of a research group at IHP, the candidate must have experience in leading multinational teams, e.g. from EU projects. The future post holder is expected to be scientifically active in at least two of the following research areas:

1. reliability and security in wireless sensor networks and distributed sensing systems
2. energy efficiency of sensor nodes and sensor networks - software and hardware solutions
3. modularity in hardware and software: realisation for sensor nodes and sensor networks
4. design methodology and reusability of existing partial solutions (modules)
5. operating systems and middleware solutions for sensor networks and distributed measurement systems
6. sensor data processing using artificial intelligence
7. IT security aspects in the area of distributed resource-limited systems.

Suitable application areas include smart city, smart grid and environmental monitoring. The joint professorship is based on the Jüllich model and includes an obligation to hold courses at the BTU in the amount of 2 LVS. Lectures are primarily to be held in German, fluency in English is expected.
Experience in the acquisition and realization of third-party funded projects is expected. Fields of research should be relevant for the DFG (German Research Foundation) or similar international research funding organisations.

For further information please contact Peter Langendörfer, Tel. 0335 5625-350 / email: peter.langendoerfer@b-tu.de.

Other duties result from the requirements set by § 42 Brandenburgisches Hochschulgesetz (Higher Education Act of the State of Brandenburg - BbgHG) in conjunction with § 3 BbgHG. Please refer to §§ 41 paragraph 1 No 1 – 4a and 43 BbgHG for prerequisites and conditions of employment.

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. As a family-oriented University, BTU Cottbus-Senftenberg offers a Dual Career Service.

The application, including academic certificates, curriculum vitae, a list of publications, as well as proof of teaching experience, should be sent by e-mail in a single pdf file with a max. 7 MB until 27.01.2023 to:

Dean of the Faculty of Mathematics, Computer Science, Physics, Electrical Engineering and Information Technology
BTU Cottbus - Senftenberg, Postfach 101344, 03013 Cottbus

Email: fakultaet1-bewerbungen@b-tu.de

When sending your application by unencrypted e-mail, please be aware of the risks regarding the confidentiality and integrity of your application content and please also note the data protection information on the BTU website.