



Against the backdrop of the energy transition, one of the most dynamic energy research locations in Germany is currently being created in Cottbus. As a young, up-and-coming university, the Brandenburg University of Technology Cottbus-Senftenberg (BTU), which has traditionally focused on energy research, is playing a central role in this structural development process. In the new "**Energy Innovation Center**" (EIZ), more than 70 scientists\* at BTU Cottbus-Senftenberg are conducting research together with an interdisciplinary partner network on innovative solutions and technologies for a climate-neutral energy supply in Lusatia and worldwide.

The **Faculty 1 MINT - Mathematics, Computer Science, Physics, Electrical Engineering and Information Technology** is seeking to fill the following position at the **Chair of IT Security** in Cottbus as soon as possible:

**Research Assistant (m/f/d) (Focus: AI-based attack detection  
in critical infrastructures)**

limited to 31.07.2026, full time, E 13 TV-L

**Reference number: 44/24**

Together with our project partners from academia and industry, you will work on the EIZ research project. The position is assigned to the EIZ sub-project "**COSYS -- Control Systems and Cyber Security Lab**" and focusses on AI-based detection and simulation of network attacks on critical infrastructure. You will develop AI-based systems that learn the normal system behaviour and raise the alarm whenever there is a deviation from the normal state. You will contribute to the explainability of automated AI decisions. You will also work on administrative tasks related to research. You will also actively participate in current discussions on IT security in future energy systems and developments by publishing in scientific journals and presenting your research findings at international conferences.

**These are your tasks:**

**Research work:**

- scientific work within the framework of the research focus of the department,
- collaboration in the preparation and implementation of third-party funded projects, here in the project: "Joint project EIZ: Energy Innovation Center of the Brandenburg University of Technology Cottbus-Senftenberg",
- presentations and publications on the subject of research,
- preparation of contributions for reports and presentations, topic: AI-supported penetration tests,
- other administrative tasks related to research.

**What you bring:**

A university degree in the sense of the TV-L pay scale (accredited Master's degree / university diploma / equivalent) in a subject relevant to the position (computer science or comparable) is required.

Personally, you are characterised by the ability to work scientifically, independence, flexibility and good communication skills.

For further information please contact Prof. Dr.-Ing. Andriy Panchenko;

E-Mail: [itsec-jobs.informatik@lists.b-tu.de](mailto:itsec-jobs.informatik@lists.b-tu.de)

**We offer you:**

The BTU offers you excellent conditions for your academic qualification and research. In addition, there are many advantages of Cottbus-Senftenberg as a science location, which is particularly characterised by its interdisciplinarity, such as convenient transport connections to Berlin or Dresden and attractive and inexpensive housing options in the Lusatian Lake District.

If you want to play an active role in shaping change in Lusatia, become part of the BTU family. We look forward to getting to know you.

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 or of equal status are given priority if equally qualified.

BTU aims to increase the proportion of women in research and teaching and therefore strongly encourages qualified female applicants to apply.

The submission of application photos is waived.

Please note the [detailed information on the selection procedure](#) on the BTU website.

Please send your **application documents in a PDF document, stating the reference number, exclusively by e-mail by 30.08.2024** to the **Head of the Department of IT Security, Prof. Andriy Panchenko**, Brandenburg University of Technology Cottbus-Senftenberg, E-Mail: <mailto:itsec-jobs.informatik@lists.b-tu.de>



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**Published: 22.02.2024**

**Valid until 30.08.2024**