Brandenburgische Technische Universität Cottbus - Senftenberg

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

Reference Number: 44/24

Salary group	E 13 TV-L
Work hours	Full-time
Limitation	limited to 31.07.2026
Employment location	Cottbus

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 responsibilities

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.

Your Skills

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.

Our Offer

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.

For further information please contact Prof. Dr.-Ing. Andriy Panchenko; E-Mail: itsec-jobs.informatik@lists.b-tu.de

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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 as well as persons of equal status will be given priority in the case of equal suitability.

The submission of application photos is not required.

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

Please send your **application documents in a PDF document**, **stating the reference number**, **exclusively by e-mail** by **31.05.2024** 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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