



Technische Universität Berlin offers an open position:

## Student assistant (80 hours per month)

**Faculty IV: Electrical Engineering and Computer Science - Institute of Telecommunication Systems**

**Reference number:** IV-SB-0083-2024 (starting at the earliest possible / limited for two years / closing date for applications 26/11/24)

### Working field:

We are looking for a student worker to support our research in the new DFG-funded Collaborative Research Center FONDA, which investigates optimization of large-scale scientific data analysis workflows. More specifically, the project aims to support scientists in finding efficient methods for implementing and executing machine learning based data analysis workflows for monitoring forest disturbances, allowing them for rapid deployment of remediation actions. At the research group DOS of Prof. Odej Kao, we (1) monitor data analysis workflow performance degradation (2) develop new self-adaptive algorithms for scheduling in different environments (3) research methods for efficient and stable maintenance of machine learning based data analysis workflows and (4) research computational efficiency with incremental learning.

The student will be fully involved in the collaborative research and, thus, gain comprehensive insights into scientific practices.

The student's responsibilities include:

- Preparing our infrastructure-specific execution profiles for the implementation of scientific experiments (40 %)
- supporting execution of scientific experiments (30 %)
- supporting the team in research (e.g. literature research, framework testing etc.) (30 %)

### Requirements:

Must:

- A good understanding of distributed systems and machine learning
- Solid programming skills preferably in Python
- Good knowledge of Linux and command line tools
- Very good knowledge of English and good knowledge of German both written and spoken

Can:

- Familiarity of Remote Sensing
- Working knowledge of machine learning frameworks like TensorFlow or PyTorch
- Experience in working with distributed processing systems like Spark or Nextflow
- Good communication skills

**Party responsible for specialist area / point of contact for job posting:** Diellza Sherifi/ Prof. Odej Kao

**Period of employment:** immediately for 2 years

Please submit your written application including your CV, certificate of enrollment, and where applicable, current transcript of records, to the place of employment indicated above.

In the interest of promoting equality opportunities for men and women, applications from women with suitable qualifications are particularly encouraged.

The vacancy is also available on the internet at  
<https://www.personalabteilung.tu-berlin.de/menue/jobs/>

