



Paderborn University is a high-performance and internationally oriented university with approximately 20,000 students. Within interdisciplinary teams, we undertake forward-looking research, design innovative teaching concepts and actively transfer knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our more than 2,600 employees in research, teaching, technology and administration a lively, family-friendly, equal opportunity environment, a lean management structure and diverse opportunities.

Join us to invent the future!

Paderborn University offers 9 full-time PhD positions (f/m/d) within the collaborative AI project SAIL starting as soon as possible in the following areas:

- **R1.2: Eudaimonic design of work support assistance systems (code 5421)**
- **R2.1: Self-aware AI, prosilience, and preparedness (code 5422)**
- **R2.2: Apoptosis of data and models (with aspects of R3.2) (code 5423)**
- **R2.3: Human-centered continuous optimization (code 5424)**
- **R2.5: Sensor validity in variable environmental conditions (code 5425)**
- **R2.6: Processes of social inclusion and exclusion in hybrid teams (code 5426)**
- **R3.2: Approximate computing for AI (hardware) (code 5427)**
- **R3.2: Approximate computing for AI (software) (code 5428)**
- **R3.5: Cognitively efficient explainable AI (code 5429)**

(salary is according to E 13 TV-L)

Funded by the Federal Ministry of Culture and Science of North Rhine-Westphalia, SAIL is a new AI research network between the Universities of Bielefeld and Paderborn as well as the Universities of Applied Sciences Bielefeld and OWL. It stands for "Sustainable Life-cycle of Intelligent Socio-Technical Systems". Current systems containing AI technology are mainly aimed at the introductory phase, in which a core component is the training and adaptation of AI models based on given sample data. The focus of SAIL on the entire life cycle shifts the current focus toward sustainable, long-term development of AI-based systems in real life that act robustly under changing circumstances, offer a possibility of error correction by laypersons, and are compatible with human cognition and societal requirements. In doing so, the project addresses both basic research in the field of AI, its implications from the perspective of the humanities and social sciences, as well as concrete fields of application in the areas of Industry 4.0 and Intelligent Healthcare.

The positions are initially limited until July 31, 2024. A two-year extension is planned if project continuation is approved. The period of employment is governed by the Academic Fixed-Term Contract Act (Wissenschaftszeitvertragsgesetz – WissZeitVG).

Your duties and responsibilities:

- Conduct of interdisciplinary innovative research in one of the research areas mentioned above
- Contributions to project's results, to international conferences and written publications
- Collaboration in the activities of the network

Your profile:

- Very good M.Sc. degree in relevant fields
- Strong analytical and organisational skills
- Communicative and team-oriented personality
- Independent, self-reliant and committed working style
- Interest in interdisciplinary scientific cooperation
- Very good command of English, both written and spoken (German is a plus)

We provide:

- Remuneration salary group E 13 TV-L
- Open communication culture and agile workflows
- Work on highly relevant research topics and technologies
- A family-friendly workplace with the opportunity for telework ('Mobiles Arbeiten') and flexible start and finish times
- Personnel development through further training opportunities
- A supplementary employer pension scheme (VBL)

Applications from women are expressly welcome and will be given preference in accordance with the LGG in the event of equal suitability, qualifications and professional performance, unless reasons relating to the person of a competitor prevail. Part-time employment is generally possible. The application of suitable severely disabled persons and persons with equal rights within the meaning of Book IX of the German Social Law (SGB IX) is also welcome.

Interested applicants can apply to one or several of the positions above by sending a letter of motivation, a curriculum vitae, scanned transcripts and diplomas to Prof. Dr. Axel Ngonga (mone@upb.de) using the **relevant code**.

Information regarding the processing of your personal data can be located at: <https://www.uni-paderborn.de/zv/personal Datenschutz>.

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