

As part of the German government's artificial intelligence (AI) strategy, the successful Saxon competence center ScaDS.AI Dresden/Leipzig (Center for Scalable Data Analytics and Artificial Intelligence) is being expanded into a leading German AI competence center for Big Data and Artificial Intelligence (AI). For TUD Dresden University of Technology diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

At the **Center for Interdisciplinary Digital Sciences (CIDS)**, the **Department for Scalable Data Analytics and Artificial Intelligence (ScaDS.AI Dresden)** offers a full-time position as

Research Associate / PhD Student (m/f/x)

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting **April 1, 2026**. The position is limited until September 30, 2028, with the option of extension. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position offers the chance to obtain further academic qualification (usually PhD).

The AICOM project, funded by the Saxon State Ministry for Economic Affairs, Labor, Energy, and Climate Protection (SMWA) and Development Bank of Saxony (SAB), aims to create a novel AI assistance system that helps companies use knowledge securely, reliably, and comprehensibly. While current AI models often formulate convincing responses, they frequently provide incorrect or difficult-to-verify information. AICOM therefore combines modern language models with a knowledge graph that structures verified company data. This means that answers can not only be generated, but also explained and substantiated with sources. The goal is to create a trustworthy, energy-efficient, and easily understandable system that improves internal communication, documentation, and decision-making processes. AICOM helps companies find knowledge faster, avoid mistakes, and present complex content more clearly.

Professional assignment: Chair of Scalable Software Architectures for Data Analytics (Prof. Dr. Michael Färber)

Research areas: Natural Language Processing, Large Language Models, Knowledge Graphs, and related fields (e.g. Graph Machine Learning)

Tasks:

- scientific research in at least one of the above-mentioned research areas
- collaboration in national and international research projects, possibly with an industrial collaboration
- presentation and publication of research results in top-tier conferences/journals
- project-based support for students in small projects or theses

The position comes with access to [high performance computing resources](#) and access to training opportunities within ScaDS.AI.

Requirements:

- university degree (M.Sc., M.Eng. or similar) in Computer Science, Artificial Intelligence, Mathematics, Physics, Computational Linguistics, Advanced Information Science and Engineering, or a related field
- strong interest in foundational research in the above-mentioned research areas
- strong programming skills, preferably in Python, including experience with deep learning frameworks (e.g., PyTorch, TensorFlow) and related tools
- good written and spoken English skills
- strong analytical and problem-solving skills
- highly motivated and able to work independently and in teams
- prior research experience (publications, theses, projects) in the above-mentioned research areas is a strong plus

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your detailed application with the usual documents (e.g., cover letter, CV, and other supporting documents), quoting the **job reference "ScaDS.AI Färber AICOM"** by **February 4, 2026** (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD

SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf file to **jobs-scads.ai@tu-dresden.de** or to:

TU Dresden, ScaDS.AI, Prof. Dr.-Ing. Michael Färber, Helmholtzstr. 10, 01069 Dresden, Germany.

Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

TUD is a founding partner in the DRESDEN-concept alliance.



Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: <https://tu-dresden.de/karriere/datenschutzhinweis>.