

The Institute of Mathematics at the Clausthal University of Technology has two vacancies (to be filled **as soon as possible**) for

**Research assistant in the Clausthal Continuous Optimization group**  
(Salary EG 13 TV-L if the personal requirements are met)

for a fixed period of 4 years in full time (pay grade EG 13 TV-L, provided that personal requirements are met). Both positions are part of the VolkswagenStiftung Momentum project [LiftHighUp](#).

**Your core tasks include**

- Development and analysis of novel lifted second-order methods for deep learning
- Publication of research results
- Presentation of research results at international conferences
- Guided preparation of funding proposals for follow-up projects
- Development and maintenance of freely available scientific software
- Documentation of research data
- Interdisciplinary collaboration with other institutes at TU Clausthal
- Supervision of student assistants

**Your profile**

**The following are required:**

- Ability to perform independent scientific work with a strong connection to deep learning or numerical optimization, demonstrated by an excellent PhD in mathematics, computer science, or a related field
- Successful publications of scientific work in international journals or conference proceedings
- Independent, well-structured working style and quick comprehension
- Strong communication skills and ability to work in a team, especially at the interface between mathematics and computer science
- Very good written and spoken English skills
- Very good programming skills in Python or Julia

**The following are desirable:**

- Years of programming experience with deep learning libraries
- Experience with GPU programming
- Enthusiasm for interdisciplinary application problems and for exchange with researchers from other disciplines
- German language skills or the will to acquire them

**What we offer**

- The opportunity for further academic qualification (habilitation)
- A varied and challenging activity in a young and dynamic institute within the vibrant environment of a university
- Remuneration according to the collective agreement for the public service of the federal states (TV-L), as well as a special annual payment according to TV-L and an additional occupational pension scheme (VBL), 30 days of vacation, and days off on Christmas Eve and New Year's Eve
- Reconciliation of work and family life through flexible working time and part-time models as well as mobile work within the scope of operational possibilities
- Occupational health management and university sports offerings
- Future-oriented development and qualification opportunities
- Equal treatment with its facets of equal opportunities, diversity and family-friendliness are very important for TU Clausthal. People with disabilities will be prioritized in case of appropriate qualifications. Applications of people from all

nationalities are welcome.

International applicants should send their complete documents by e-mail ([cco-jobs@tu-clausthal.de](mailto:cco-jobs@tu-clausthal.de)) to Prof. Dr. Andreas Potschka by May 15, 2026.

Applicants who have already learned the German language can apply via the link above.

<https://karriere-ausbildung.tu-clausthal.de/jobposting/fad893b782ee45fcb0480e99119959ae2e2965100>

If you have any questions, please contact Prof. Potschka ([andreas.potschka@tu-clausthal.de](mailto:andreas.potschka@tu-clausthal.de)).

We look forward to receiving your application!

Please also regard our statements on privacy at <https://www.tu-clausthal.de/en/university/careers-vocational-training/job-offers/information-on-data-protection-in-the-application-process>

Application expenses will not be reimbursed. Application documents will be destroyed after the selection of candidates has been concluded.