

The Ruhr area, one of Europe's largest metropolitan regions, offers attractive career opportunities for excellent scientists and scholars from around the world. In 2021, Ruhr University Bochum, TU Dortmund University and the University of Duisburg-Essen established the Research Alliance Ruhr to bundle their cutting-edge international research on the most urgent challenges facing humankind. There are four research centers and a college. This is just the latest chapter in our long-standing collaboration as the University Alliance Ruhr (UA Ruhr), a community of 14,000 researchers and 120,000 students in the heart of Germany.

The Reliable AI group at TU Dortmund University and the Center Trustworthy Data Science and Security is seeking two postdoctoral researchers (full-time, but a part-time appointment is possible). The positions are to be filled as early as possible and is in full-time (part-time possible). Payment according to public service s agreement: TV-L E13. We welcome candidates with research interests in formal methods, including verification and formal guarantees for deep neural networks or probabilistic programs, program synthesis (e.g., using large language models), software verification, safe machine learning (deep learning or reinforcement learning), neuro-symbolic techniques or deep learning under logic constraints, as well as broader topics related to formal methods and verification.

## 2 Postdoc positions "Verification and Formal Methods" (2 years) m/f/d

### YOUR RESPONSIBILITIES

- Conducting research in formal methods and verification
- Independently drafting grant proposals and collaborating on grant applications.
- Participating in national and international research projects
- Supervising Master and PhD students

### YOUR QUALIFICATIONS

- Excellent PhD in computer science or a related fields
- Research experience in the areas of formal methods, verification, (safe) machine learning, or artificial intelligence
- Publications in leading venues for formal methods or logic (e.g., CAV, TACAS, LICS, STACS), programming languages (e.g., POPL, PLDI, OOPSLA), machine learning (e.g., NeurIPS, ICML, ICLR), or artificial intelligence (e.g., AAAI, ICAPS, AAMAS).

### WHAT WE OFFER

- Work in an outstanding, internationally visible research environment
- Active supervision and promotion of your scientific development toward a doctoral degree
- We aim at both theoretical research as well as practical applications in close collaboration with academic and industrial partners
- Access to state-of-the-art research facilities and resources, including our GPU cluster
- A collaborative and supportive research environment with an international, friendly, and dedicated team
- A balanced and family- friendly work-life relationship is important to us; thus, we offer options for flexible working times or part-time remote home-office.

### RESEARCH ALLIANCE RUHR

The Research Alliance Ruhr is a joint undertaking of the three major universities in the Ruhr area and was initiated by the Ruhr Conference. The four research centers focus on "One Health Ruhr," "Chemical Sciences and Sustainability," "Trustworthy Data Science and Security," and "Future Energy Materials and Systems." In addition, the Research Alliance Ruhr has established a "College for Social Sciences and Humanities".

The Research Alliance Ruhr will appoint up to 50 research professors in the next few years and also offer numerous positions for research assistants. Join us now to create innovations for the world of tomorrow in Europe's densest university landscape, where you can find a wide range of scientific and industrial partners right on the doorstep.

### YOUR APPLICATION

If you are interested in the position, please send your application (Ref-No. w03-26) until March, 10, 2026 to:

**Research Center Trustworthy  
Data Science and Security Technische  
Universität Dortmund  
Prof. Dr. Daniel Neider  
Joseph-von-Fraunhofer-Str. 25  
44227 Dortmund**

Please provide the usual documents: motivation letter, CV, and copies of your certificates and one to two letters of reference

### DIVERSITY

The TU Dortmund University promotes diversity and equal opportunities. Convince us with your personality and expertise.

Applications from women will be given preferential treatment in accordance with the legal regulations. It is pointed out that the application of suitable severely disabled persons is desired.

### FURTHER INFORMATION

If you have any further questions, please contact:  
Prof. Dr. Daniel Neider  
[jobs-reliable-ai@rc-trust.ai](mailto:jobs-reliable-ai@rc-trust.ai)