



The **Chair of Software Engineering** is offering a full-time position as

## Postdoctoral Researcher Position in AI/ML for Sustainable Software Engineering (all genders)

starting on 01.07.2026 or later on based on arrangements.

The Sustainable Software Engineering Group at the University of Mannheim invites applications for a full-time PhD student position in Software Sustainability for an initial period of 2 years, with the possibility of extension.

The position focuses on various dimensions of software sustainability, including technical, environmental, economic, social, and individual. It aims to address software sustainability challenges through research at the intersection of AI/ML, software engineering, and sustainability. Possible research topics include: source code analysis, software evolution, software architecture, code comprehension, improving software performance with respect to sustainability, including resource consumption, energy-efficient code, and sustainable deployment. Depending on the project, the work may also involve experiments on controlled servers to measure energy consumption or user studies with software developers. Experience with large-scale or HPC experimentation is a strong plus.

### Your tasks include:

- Conduct cutting-edge research in the field of software engineering and sustainability
- Publish and present research results at leading international venues
- Contribute to teaching in the Software Engineering Group, such as tutoring or student supervision, typically with a teaching load of 4 SWS
- Co-supervising PhD and MSc/BSc students
- Contributing to the preparation of scientific funding proposals

### Your profile:

- PhD in Computer Science, Software Engineering, Machine Learning, or a closely related field
- Strong research interest in green software engineering, software performance optimization, supported by a solid publication record

The **University of Mannheim** is one of the leading universities in Germany with approximately 12,000 students in five schools. Particularly in business and economics as well as in the social sciences the university ranks among the top institutions both at national and international level. More than 2,600 employees profit from an exciting work environment with numerous benefits.

The Sustainable Software Engineering Group is part of the Software Engineering Group at the University of Mannheim, a collaborative research environment with expertise in green software engineering, empirical software engineering, generative software engineering, model-driven software engineering, and software testing.

### Key information

**Start:** 01.07.2026 or later on based on arrangements

**Term:** 2 years, with the possibility of extension

**Remuneration bracket:** E 13 TV-L BW

**Weekly hours:** 39.5 hours, the position is generally suitable for job sharing

**Location:**  
B 6, 29 68159 Mannheim Germany

**Application deadline:**  
18 Mai 2026

**Reference number:** SSE Postdoc position

- Very good programming skills and practical experience with AI/ML frameworks
- Strong analytical, problem-solving, mentoring (advising BSc/MSc/PhD students), and collaboration skills
- Ability to work independently and in a collaborative research environment with high motivation for research and teaching
- Proficient in written and spoken English

#### What we offer:

- An excellent research environment with strong collaboration opportunities within the institute groups, software engineering groups in Switzerland and the Netherlands, and beyond
- Flexible working conditions and access to compute infrastructure
- Generous travel and research funding
- Teaching opportunities in BSc and MSc programs and PhD co-supervision
- A full-time position with competitive salary according to TV-L 13



Outstanding research culture



Innovative academic working environment



Positive working atmosphere



Central location in the city center



30 vacation days plus paid leave at Christmas/New Years Eve



Extensive range of further training opportunities

Applications from persons with a disability are given preferential consideration provided that they are appropriately qualified. The University of Mannheim is committed to increasing the quota of women in areas where they are underrepresented and thus encourages women with appropriate qualifications to apply.

If you are interested in applying, please send your application documents via e-mail or mail **by 18 May 2026 at the latest:**

**University of Mannheim**  
**Chair of Software Engineering**  
**Prof. Dr. Pooja Rani**  
**B 6, 29**  
**68159 Mannheim**  
**Germany**  
**pooja.rani@uni-mannheim.de**

If you have any questions about the position, please contact Prof. Dr. Pooja Rani at

#### Data protection

Please find detailed information on the collection of personal data from the data subject according to Article 13 GDPR on the university's homepage: [www.uni-mannheim.de/datenschutz-bei-bewerbungen](http://www.uni-mannheim.de/datenschutz-bei-bewerbungen).

Submitted application documents will only be returned if you enclose a self-addressed stamped envelope. Otherwise, they will be destroyed in accordance with current data protection law after the application procedure has ended. Electronic applications will be deleted accordingly..

If you apply by e-mail, please note that protection of confidential data cannot be guaranteed as unauthorized third parties might gain access to unencrypted e-mails during transmission.



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