



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 01.06.2026 or later.

The position focuses on AI/ML for Sustainable Software Engineering, with particular emphasis on software sustainability across technical, environmental, economic, social, and individual dimensions.

The rapid growth of digital transformation and AI technologies has significantly increased the energy demand of software systems. At the same time, sustainability concerns on the software side remain underexplored. This position addresses these challenges through research at the intersection of AI/ML, software engineering, and sustainability.

Possible research topics include: source code analysis, software evolution and software architecture, code generation, 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. Experience with large-scale or HPC experimentation is a strong plus.

Your tasks include:

- Conducting cutting-edge research in green software engineering and software sustainability
- Publishing and presenting research results at leading international venues
- Contributing to teaching in the Software Engineering Group, 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, or a closely related field
- Strong research interest in green software engineering, software performance optimization, supported by a solid publication record
- Very good programming skills and practical experience with AI/ML frameworks

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: 01.06.2026 or later

Term: 2-3 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

Application deadline:
10 Mai 2026

Reference number: SSE Postdoc position

- Strong analytical, problem-solving, mentoring (advising students), and collaboration skills
- Ability to work independently in a collaborative research environment, with high motivation for both – research and teaching
- Proficient in spoken and written English

What we offer:

- An excellent research environment with collaboration opportunities at the University of Mannheim, with the SEAL group at the University of Zurich, and beyond
- Flexible working conditions and access to compute infrastructure
- Generous travel and research funding
- Teaching opportunities in BSc and MSc programs
- PhD co-supervision
- A full-time position with competitive salary according to TV-L 13



Outstanding research culture



Positive working atmosphere



Innovative academic working environment



Central location in the city center



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

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 10 May 2026 at the latest:**

University of Mannheim
Chair of Software Engineering
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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.

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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