

## Open Positions in Software Engineering and Machine Learning

The Chair of Intelligent Software Systems (<https://www.uni-weimar.de/en/medien/professuren/intelligente-software-systeme/>) at the Media faculty at the Bauhaus-University Weimar offers **two** positions, starting as soon as possible:

- PhD Candidate (ref. nb.: **M/WP-03/17**):
  - The successful candidate will be expected to work at the intersection of machine learning and software engineering. The main research focus will be on the automated generation and optimization of source code using techniques from deep learning. The candidate will also be expected to work on automation approaches to software engineering and perform teaching duties (exercises, projects, etc.).
  - The position has a planned duration of three years, which can be extended in accordance to the Wissenschaftszeitvertragsgesetz (legislation on fixed-term contracts in academia).
  
- PhD Candidate or Post-Doc (ref. nb.: **M/WP-04/17**):
  - The successful candidate will be expected to support the introduction and establishment of the new master curriculum: “Digital Engineering”. Furthermore, the candidate will be expected to contribute to the research of the Chair.
  - The position has a planned duration of one year. In case of successful third party funding, the position can be extended.

### *Research Area:*

The Chair of Intelligent Software Systems develops novel methods and tools in software engineering based on a unique combination of machine learning techniques and software analysis. Research topics address the automated and optimal configuration of software systems, sampling and optimization techniques, and applications of deep learning to code generation and optimizations. The overarching goal is to improve automation in software engineering to build better software with lower cost.

We are looking for highly-motivated, focused, and enthusiastic persons with an ability for creative and innovative thinking.

### *Requirements:*

- Above-average university degree (Master (MSc.), Diploma (Univ.)) in Computer Science or equivalent
- Good to very good background in mathematics, statistics, or machine learning
- Good to very good background in software engineering (e.g., software analysis, software product lines, etc.)
- Very good programming skills (in at least one of: Python, Java, C#, C++)

The salary is in accordance with the German public service salary scale (100% TV-L E13). The Bauhaus-University Weimar is an equal opportunity employer. It aims to increase the proportion of women and therefore particularly welcomes applications by women. Applicants with severe disabilities will be given priority consideration given comparable qualifications.

Please send your application with a cover letter, curriculum vitae, transcript of record, etc. using the **reference number** till **March 31st, 2017** to: [norbert.siegmund@uni-weimar.de](mailto:norbert.siegmund@uni-weimar.de)