



The research group **AutoML for Science** is looking for a highly motivated candidate for

PhD Position (75%, E 13 TV-L, m/f/d) | AutoML for Science

The contract will start as soon as possible and will have a duration of 3 years.

About the project. The application of ML relies on crucial design decisions that demand considerable expertise and resources. The research group focuses on methods to lift this barrier and make ML easy to use via hyperparameter optimization (HPO) methods and AutoML systems, aiming to study the following:



- How can we build the next generation of AutoML systems?
- How can we leverage recent advances in Deep Learning for AutoML systems?
- How can we construct meaningful benchmark problems?
- How can we develop practical HPO methods?
- What is needed to apply HPO/AutoML for scientific applications?

As a successful applicant, you will carry out research along these topics in the context of the **Cluster of Excellence “Machine learning - New Perspectives for Science”** as part of the newly established early career research group “**AutoML for Science**”. You will have ample opportunity to collaborate with other research groups, publish and present your scientific results at international venues.

Required Qualifications

- An excellent MSc degree (or about to finish) in AI, ML, DL, computer science or a related discipline
- Solid knowledge of (and experience with) ML and DL methods
- Python knowledge with good working knowledge in applying/evaluating ML & DL methods

Knowledge in one or more of the following is beneficial: AutoML systems | Hyperparameter optimization | Bayesian Optimization | Large-scale evaluations | Deep Learning with tabular data

To apply, please send the following documents (as one PDF) to katharina.eggensperger@uni-tuebingen.de:

- Preferred **starting date** (including earliest and latest possible date)
- **CV & Transcript of records**
- **Research Statement** (max one page) including why you want to start a PhD and why you want to do research in AutoML

Deadline for applications: **None**

→ For further questions, please also do reach out to katharina.eggensperger@uni-tuebingen.de

About Tübingen. The University of Tübingen is one of few excellence universities in Germany. With its cluster of excellence “Machine Learning for Science”, embedded in the interdisciplinary research environment of the CyberValley, the Max-Planck-Institute, the ELLIS Institute, and the Tübingen AI center, it provides a vibrant research environment, access to unique research facilities and great research opportunities.