



HiWi position

Large Language Models (LLM) in Tractor engineering

The Chair of Agrimechatronics at Technical University of Munich (TUM)

invites for applications for a HiWi position. M/F/D. Applications from disabled persons with essentially the same qualifications will be given preference. TUM strives to raise the proportion of women in its workforce and explicitly encourages application from qualified women.

About the position

The tasks involve programming applications utilizing various LLM's and API's according to specification. Tasks require implementation of custom RAG, finetuning models with own dataset, and programming user interfaces, calling LLM through API and programming custom scripts.

The number of working hours can be from 8 to 20 hours per week, arranged on workdays that fit the student's schedule. The Chair of Agrimechatronics operates mainly in Freising/Weihenstephan (Dürnast). We also have a small office in Garching. Partially remote work is possible.

About us

The Chair of Agrimechatronics (Prof. Oksanen) studies especially Intelligent Machines for Agriculture. The research themes include topics like tractors and other agricultural vehicles and robots, tractor-implement automation, communication technologies for vehicles, navigation, guidance and planning, positioning systems, model-based control of mechatronic systems, drives and power systems, and robotic implements.

Your qualifications

- Programming skills in Python, C++
- Experience with Langchain and Vector Databases helpful
- Understanding of LLMs like ChatGPT
- Prompt engineering
- Fluent language skills in written and spoken English

Application process

Start: as soon as possible. Send your application in English by email to amx@wzw.tum.de with title "HiWi application" including

- A short email elaborating your background and motivation
- Curriculum vitae (CV) in English and current transcript of records of your studies

Data Protection Information: When you apply for a position with the Technical University of Munich (TUM), you are submitting personal information. Data protection information according to Art.13 of the data protection basic regulation (DSGVO) for the collection and processing of personal data in the context of your application. By submitting your application, you confirm that you have acknowledged the above data protection information of TUM.