

Student Assistant: Edge Computing and Cloud Service Orchestration

We are looking for a motivated student to join our team as a student assistant, focusing on challenges in **Edge Computing** and **Cloud Service Orchestration**.

This is a **20-hour-per-week** position perfect for students who want to apply their skills in a dynamic research environment. The TUM HiWi contract has a duration of 6 months and can be extended. The candidate will be working in a very international environment collaborating with Industrial and Academic researchers from all around Europe on a daily basis. This position is open to BSc and MSc students enrolled at TUM.

Your Responsibilities

- Operational, maintenance, and development tasks on our research codebase.
- Contributing to open-source repositories of the **Oakestra**¹ project.
- Assisting with our internal experimental setup used to gather results for scientific contributions.

¹Oakestra: www.oakestra.io

Requirements

Your background must match all the mandatory (★) requirements and you must have experience with at least 1 optional (♣) technologies/topics.

- Enrolled in a Master's or Bachelor's program at TUM (Technical University of Munich)
- Experience with Git ★
- Knowledge Edge and Cloud computing ★
- Comfortable with Python and Go programming languages ★
- Ability to work in a team ★
- Container Networking (CNI, net namespaces, veths, eBPF, proxies, tunnelling) ♣
- AWX and Ansible ♣
- AI applications deployment ♣
- Javascript, Typescript and Angular ♣
- Kubernetes (or its derivatives such as k3s) ♣
- CI/CD Pipelines ♣
- Embedded software development ♣
- WebAssembly ♣
- OCI standards ♣
- Container migration (e.g. CRIU) ♣
- Unikernels (e.g. Unikraft) ♣



Contact

Send **CV** and **transcript of records** to Giovanni Bartolomeo (giovanni.bartolomeo@tum.de)
Please add a few lines about yourself and the status of your studies at TUM.