

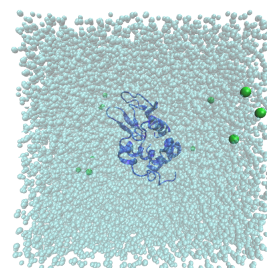
# Student job

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## 1 Description

At MLZ, we work with neutron scattering experiments. We also work with different kinds of simulations like Molecular Dynamics (MD) and continuum simulations with the Finite Element Method (FEM). We need a student assistant who is proficient in High-Performance Computing. We are building a software solution for bridging the gap between simulation and experiments.



## 2 Motivation



If you are looking for a student job that would give you experience in hard-core computing, then this is the opportunity for you. Within this job, you will get a chance to involve yourself in the development process of a High-Performance Computing (HPC) Solution. This could be a handy experience for you before you join the large-scale development of computing solutions within the industry or if you want to be a self sufficient researcher and want to be a part of the open source community.

## 3 Requirements

You need to be

- proficient in C++,
- proficient in Linux,
- familiar with MPI, OpenMP and vectorization and
- familiar with different performance analysis tools like Intel Advisor, Intel VTune profiler and LIKWID is a plus.

The work will be carried out in English.