



## **Diploma/Master/Bachelor Thesis**

### **Topic: Logistics of electron micrographs**

Electron tomography is new and currently the only technique, which can achieve molecular resolution of cells and organelles close to their native environment. The cluster of excellence “macromolecular complexes” has purchased a high-end, state of the art electron microscope, which is working 24 hours/day 7 days/week and produces roughly 20 Gbytes of data/day. This data is further processed for extracting the information out of the tomograms. We seek an expert, who is going to develop/adapt the necessary logistics in order to track every single image form the microscope, so that its use can be traced back to the origin.

Our group is world leading in the development of image processing techniques for electron tomography. We have access to a high-end computing cluster, programmable GPUs, and provide the necessary facilities for a successful and fruitful thesis.

Adequate payment will be provided.

Work description:

0% theory

80% development in C/C++ and/or MATLAB and/or JAVA

20% application

For detailed informations please contact:

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