

Summer intern offer: Deep Learning For Bioimage Analysis in High Content Screening

Description

We are currently looking for an internship student to join our development team. The internship will contribute to the establishment of deep-learning (DL) image analysis solutions for high-content screening microscopy. The project will be centred around the evaluation and application of DL-techniques to analyze image datasets originating from zebrafish chemical screening experiments. This internship will extend on previous work and aims to establish workflows for automatic detection of regions of interest, or the classification and clustering of different biological phenotypes within large and complex image datasets.

About the position

- Bachelor/Master student (or equivalent) in bioinformatics, computer vision, biotechnology or similar qualification.
- Basic programming skills are mandatory (preferably Python).
- Experience with the KNIME analytics platform, image-processing or deep learning is advantageous but not required.
- Good english language skills are a plus.

About Acquirer

As a division of DITABIS AG, ACQUIFER offers developments and products centred on automated microscopy and other modern imaging technologies. This includes the Imaging Machine, a novel high content screening platform, following a unique opto-mechanical design rendering it ideal for non-adherent motion sensitive samples or large specimen such as zebrafish, and the HIVE, a modular IT solutions for workflow optimization in data intensive biomedical research projects.

Duration: 1 to 3 months, full time
Location: Heidelberg, Germany
Date: July to September 2019
Contact: Please send your application to Laurent Thomas (l.thomas@acquirer.de).

Related publications:

- Gehrig, J., Pandey, G., and Westhoff, J.H. (2018). Zebrafish as a Model for Drug Screening in Genetic Kidney Diseases. *Frontiers in Pediatrics* 6.
- Pandey, G., Westhoff, J., Schaefer, F., and Gehrig, J. (2019). A Smart Imaging Workflow for Organ-Specific Screening in a Cystic Kidney Zebrafish Disease Model. *International Journal of Molecular Sciences* 20, 1290.

