Master's Thesis/ Research Assistant (WHK):
Pipeline for analysis of biological 3D image data

Three main institutes in medical research – *DKTK, DZNE,* and *HZDR* – join forces to **answer critical questions in neurobiology**. Enhancing the understanding of brain sub-structures and their response to disease treatment requires co-registration of detailed biological information with modern anatomical 3D imaging, such as **advanced magnetic resonance imaging (MRI)**.

This project aims to implement a pipeline for **biological 3D imaging data** analysis and their co-registration with the gold standard, i.e., the Allen Brain Atlas.
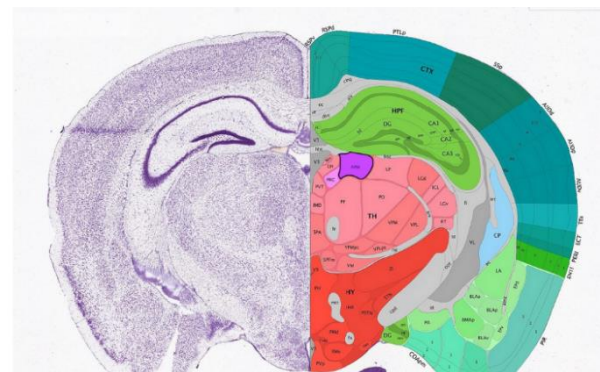
Requirements:

- Interest in bio-physics / -informatics
- Proven **programming experience**
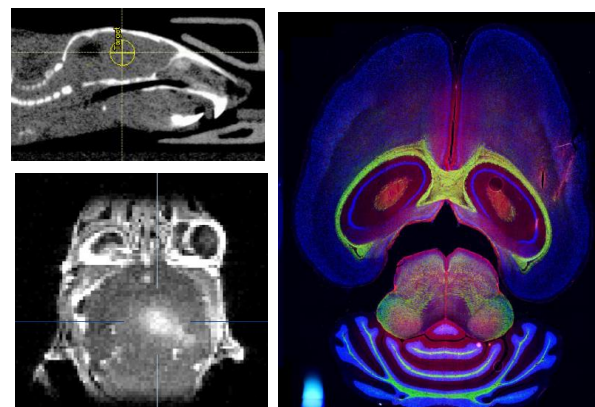- Good English and presentation skills
- Strong communication skills

What we offer:

- Highly interdisciplinary working environment in medical research
- Intersection of programming, physics medicine, neuro- and cancer biology
- **Excellent supervision**
- Employment (WHK, up to 19h/week)

Start: immediately

Allen Brain Atlas (http://portal.brain-map.org/)

Mouse brain imaging: CT, MRI and microscopy

Further information: www.oncoray.de | www.hzdr.de | www.dzne.de | www.mpi-cbg.de

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