



UNIVERSITY OF
HOHENHEIM

PhD position in Computational Biology (m/f/d, TV-L E13 65%) at the University of Hohenheim for a duration of three years.

The position will be located at the newly established Computational Biology Group of the University of Hohenheim in Stuttgart. The junior research group is part of the Institute of Biology and is associated with the bioinformatics section of the Hohenheim Computational Science Lab.

The position is funded within the DFG project “Digital Tissue Deconvolution – aus Einzelzelldaten lernen” (<https://gepris.dfg.de/gepris/projekt/420069742>). In this project, we develop techniques for Digital Tissue Deconvolution (DTD). DTD addresses the following problem: given a molecular profile of a tumor tissue, what is its cellular composition? With such estimates, we try to answer questions such as, which immune cells determine the patient’s disease course?

We are seeking a PhD candidate with master in computer sciences, mathematics, or physics. Within this thesis, the candidate should develop machine learning techniques for DTD and apply them to high-throughput cancer data. Important skills are

- Good programming skills in, e.g., Python or C.
- Solid mathematical background. Knowledge in computational statistics is beneficial, but not a requirement.
- Good writing, language, and communication skills.
- Basic knowledge in biology is an advantage, but not a requirement.
- An open and enthusiastic personality that wants to develop new computational and statistical tools.

Applications with CV and cover letter should be directly sent via e-mail to Dr. Michael Altenbuchinger (michael.altenbuchinger@uni-hohenheim.de). The position will be open until it is filled. The University of Hohenheim seeks to increase the proportion of women in research and teaching and strongly encourages qualified female scientists to apply. With equal qualifications, preference will be given to candidates with disabilities.

The University of Hohenheim, Germany, is located in the south of Stuttgart. The pleasant campus is located close to the airport and hosts a well-equipped research infrastructure, a baroque palace and rambling parks, as well as a vibrant scientific community. More information: Computational Biology Group <https://compbio.uni-hohenheim.de/en/>
Computational Science Lab <https://csl.uni-hohenheim.de/>
Institute of Biology <https://www.uni-hohenheim.de/fakultaeten-institute>