



## PhD Positions

There are several opening for PhD students in the lab of **Oliver Kohlbacher** at the Center for Bioinformatics of Eberhard Karls University Tübingen. Our group is strongly interdisciplinary and focuses on cutting-edge research in systems biology (network analysis, metabolomics, proteomics), immunoinformatics, structural bioinformatics and computer-aided drug design. Currently we have open positions in the following areas:

- One PhD position in the area of **systems biology/network analysis** (applicants with a background in CS or bioinformatics preferred)  
*Task: Development of novel algorithms for efficient analysis and visualization of network-centered biological data and application of these methods in metabolic networks/bioengineering.*
- One PhD position in the area of **immunoinformatics/vaccine design** (applicants with a background in bioinformatics, machine learning, optimization preferred)  
*Task: Develop novel methods for the computer-based design of vaccines for infectious diseases and cancer based on expression data and MHC ligandome data.*
- One PhD position in the area of structural bioinformatics/biophysics (applicants with a background in physics, physical chemistry, bioinformatics preferred)  
*Task: Study the recently developed reentrant condensation of proteins by polyvalent counterions using Monte Carlo and molecular dynamics techniques to develop a theoretical framework for understanding this phenomenon.*
- One PhD position in the area of **proteomics/metabolomics** (applicants with a background in bioinformatics, biochemistry, CS preferred)  
*Task: Development of novel algorithms for the analysis of proteome and metabolome data in close collaboration with our international experimental partners and application to various projects from cancer research, diabetes and stem cell research.*

Applicants should hold an MSc or equivalent degree in bioinformatics, computer science, chemistry, biophysics, physics, or a related discipline. Please send your CV, a list of publications and contact information of at least two references until **October 31, 2009** to the address below.

### Contact

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