

25<sup>th</sup> September, 2018

## Blood Sample Database Development (part-time or full-time position, or Internship)

We are an interdisciplinary international team involving Laser Specialists, Bioinformaticians in collaboration with Medical Doctors developing laser-based technologies for the purpose of early diagnosis and treatment of cancer.

The project is part of large Laboratory for Attosecond Physics (LAP) headed by Prof. Dr. Ferenc Krausz at LMU Laser Physics and the Max Planck Institute for Quantum Optics (MPQ).

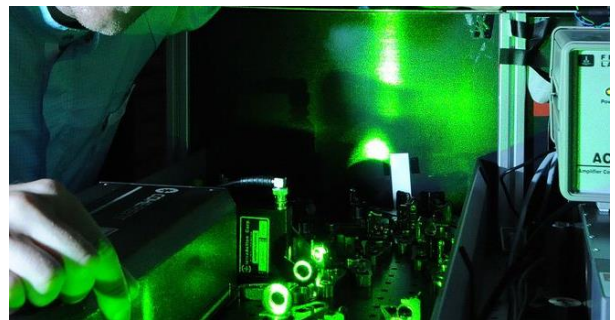
The BIRD team ([www.attoworld.de/research/bird/](http://www.attoworld.de/research/bird/)) is aiming at devising new ways to detect and analyze molecular fingerprints in medical samples (blood serum) using IR-Laser spectroscopy to define health states of individuals. During the ongoing medical studies, where blood samples are collected at our partner clinics, information about the medical sample parameters, the sample storage place as well as measured spectral data need to be stored, organized and tracked in a database system (bio-repository). For the build-up of this bio-repository we are offering a position and a second HIWI/WerkstudentIn position in Database and Frontend development.

### Main activities/tasks:

- Planning and implementing client application (WPF, C#)
- Implementation of user rights management
- Adaptions to database design (MySQL Server)
- Definition of SQL queries
- Data import and cleaning from clinical databases

### Experience & Skills:

- Bachelor's degree in Computer Science/Information Technology or equivalent
- >2 years of hands-on coding experience with C#, Java, Python,..
- Experience with Databases and SQL
- Experience in user interface design
- Very good in grasping and understanding abstract models
- Experience in C#/.net, WPF, MySQL, Entity Framework, Reactive UI Framework is a plus
- Experience in Python, Pandas and MS Access (VBA) is a plus
- Fluent in English



The position is based in the Research Campus Garching, easily accessible by public transport. We offer a broad range of stimulating and responsible tasks. The position is offered on a full- or part-time basis and can be filled as soon as possible.

Please send your CV and motivation letter to [m.uiberacker@physik.uni-muenchen.de](mailto:m.uiberacker@physik.uni-muenchen.de)

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