

PhD student, 100%, Structure-function analysis of toxin-antitoxin systems in the human pathogen *Pseudomonas aeruginosa*.

The **Biozentrum of the University of Basel** is one of the world's leading Life Sciences Institutes with over 30 research groups and 500 employees that research how molecules and cells create life, spanning the scale from atoms to organisms. Founded in 1971, the Biozentrum has been the birth place of many fundamental discoveries in biology and medicine, spawning several Nobel Laureates.

A **PhD position** is available at the Biozentrum within an SNSF-funded project on «**The role of toxin/antitoxin modules in *Pseudomonas aeruginosa* phenotypic heterogeneity and antibiotic tolerance**». The project aims at reaching a molecular and cellular understanding of phenotypic heterogeneity in populations of *P. aeruginosa* and how this contributes to virulence and persistence of this important human pathogen.

We are seeking excellent and highly motivated candidates with interest and training in **structural biology and biochemistry**. Successful applicants will be working in an interdisciplinary team of researchers investigating mechanisms of virulence and persistence of the human pathogen *P. aeruginosa*. The team includes experts in molecular microbiology, computational biology and structural biology. The new team member will be responsible for the biochemical and structural analysis of toxins and will probe their interaction with the respective antitoxins.

We offer an outstanding and highly interactive scientific environment, state-of-the-art technology platforms, competitive salaries, and opportunities for advanced training. The new team member will be joining the **international Biozentrum PhD program**, a community of over 130 young scientists from around the world, with a strong mentoring program and access to a post-graduate teaching program. The position is available immediately and is funded for four years.

Basel is a cosmopolitan and multicultural city at the heart of Europe. Bordering three countries, Switzerland, Germany, and France, Basel provides a high standard of living with a thriving cultural atmosphere. The **Basel area** is Europe's most important Life Science hub with many small and medium-size biotech companies as well as global pharmaceutical players.

Please send your application (cover letter, CV, diplomas and contact information of two referees) to Prof. Urs Jenal, Biozentrum, University of Basel, Klingelbergstrasse 70, 4056 Basel, Switzerland, e-mail: urs.jenal@unibas.ch. For further information, please see www.biozentrum.unibas.ch/jenal or contact urs.jenal@unibas.ch.