

The **Institute for Theoretical Physics** at the University of Cologne invites applications for a

Postdoc position in biological physics & systems biology

starting in July 2017 or later with a weekly working time of 39,83 hours (100% position). The initial contract is limited until June 2019 and can be extended until June 2021. The salary is based on the German E13 TV-L scale if terms and conditions under collective bargaining law are fulfilled.

A postdoc position is available in the Bollenbach lab at the University of Cologne. The Bollenbach lab uses a combined experimental and theoretical approach to tackle a wide range of questions in biological physics and systems biology. Our main interest is in revealing general, quantitative principles that enable predicting the dynamics of biological systems. Specifically, we are investigating the evolution of antibiotic resistance and cellular responses to combinations of multiple stressors such as antibiotics. We primarily use the model systems *E. coli* and *S. cerevisiae* to tackle these problems. We combine concepts and techniques from physics with advanced high-throughput techniques from systems biology. Physicists and biologists work closely together in our interdisciplinary group. For more details about our research program and projects visit <http://bpsb.uni-koeln.de/>.

Applicants should hold a MSc and PhD university degree in physics or a related discipline, have a serious interest in biological problems, and the willingness to learn and perform basic molecular biology and microbiology experiments in an interdisciplinary project. Programming skills and good communication skills are required. Prior experience with dynamical systems theory, statistical physics, or basic knowledge of molecular cell biology would be an advantage, but is not required. Applicants should be highly motivated and independent.

The University of Cologne is an equal opportunities employer. Applications of women are thus especially encouraged; applications of disabled persons will be given preferential treatment to those of other candidates with equal qualifications.

Application

If you are interested in joining our interdisciplinary lab, please send your application (incl. CV, publication list, 3 reference letters) to t.bollenbach@uni-koeln.de.

Closing date for applications is **30.06.2017**.