

Several PhD Positions in Life Sciences (65% TVL 13)

(Starting date: 01/01/2022)

The Faculty of Biology at the University of Kaiserslautern is offering PhD positions in molecular genetics, cell biology, neurobiology, biochemistry, plant physiology and computational biology to highly motivated students. During the course of the program, our PhD students will exploit a wide range of methods to study different aspects of how eukaryotic cells react and adapt to stress conditions with a particular focus on membrane-bounded compartments and organelles. The offered PhD projects are assigned to three areas:

1. Cellular reactions to counter locally defined stresses in organelles

If you are interested in one of the projects of this area, you will study the adaptation to defined stress situations in one specific cellular compartment (chloroplasts, mitochondria), which requires complex and coordinated reactions.

2. Stress-induced adaptations of membrane protein networks

PhD projects assigned to this area will analyze specific adaptations of cellular membranes to changes in global conditions, such as high temperatures, high concentrations of sugars or genomic imbalance situations.

3. Systemic responses to global stress conditions

The projects of this area focus on complex reaction networks whose characterization is largely based on bioinformatics and systems biology approaches.

The TU Kaiserslautern is a campus university with modern laboratories and excellent research conditions. For detailed information on the research areas, the working groups and the offered PhD projects, please visit <https://www.stressistance.de>

The program language is English and there are no tuition fees. Successful candidates will receive contracts (65% TVL13), as well as support with administrative matters, accommodation, visa etc. It may be possible to complete the doctorate within the framework of a structured doctoral program that is currently being planned at the Faculty of Biology and that will offer a multitude of additional qualification elements for your personal and professional development.

We invite applications from highly qualified and motivated students of any nationality who fulfill the following requirements:

- Master's degree (or equivalent) in Biology, Chemistry, Life Science, or related subjects
- Applicants should have finished their studies significantly above average and have a proven interest in the respective research areas
- English language skills are generally required
- German language skills are generally required and can be acquired on site

Applications must be in English and include the following information in a single PDF:

- Motivation letter (max. two pages)
- Curriculum vitae (max. two pages)
- Master Diploma and corresponding transcripts (transcripts or certificates of annual examinations taken at the home university showing grades and an explanation of the grading system)
- Proposal for a thesis in the chosen project area (max. two pages)
- Two letters of recommendation by different professors from the applicant's home university or related scientific institutions, which were issued within the past two years.
- Proof of English language proficiency

Please e-mail your application to gamoroso@hrk.uni-kl.de before October 20, 2021. The subject of the email has to be "Application for STRESSistance".