

The Elite Network of Bavaria-funded graduate college “The Proteomes that Feed the World” at the School of Life Sciences, Technical University of Munich invites applications for:



12 Doctoral Candidates f/m/d

Plant Proteomics, Bioinformatics and Biology



The opportunity: Plants are the nutritional basis of life on earth and protein-rich foods from plants are a global megatrend essential for sustaining an increasing human population and counteracting climate change. However, little is known about crop proteomes – the entirety of proteins that execute and control nearly every aspect of life. Therefore, TUM has launched a visionary initiative with high socio-economic relevance on the topic of “The Proteomes that Feed the World”. This international doctoral program pursues the following major aims:

1. To **train and develop future leaders** in science, industry and society who excel in research, management and communication. This will be achieved by implementing a professional training and project management structure in which doctoral candidates (DCs) master challenging roles, take on substantial responsibility and acquire important transferable skills.
2. To **create a proteome atlas of the 100 most important crop plants** for human nutrition. This project brings together an interdisciplinary team with leading expertise in plant science, proteomics and bioinformatics. Added value comes from a large international network of excellent academic and industry partners as well as a vibrant local scientific community.
3. To **perform internationally competitive crop plant research** for which DCs will obtain their academic degrees. Topics cover improving yield, quantity and quality, exploiting interactions with insects, microbes, the soil, the climate, protecting plants from pests and pathogens and building molecular and digital research tools.

Requirements: Candidates must hold an internationally recognized MSc degree in a life science discipline or in (bio-)informatics. We aim to recruit individuals of the highest potential typically from the top 10% of an academic year. Candidates must have a good command of the English language and very good interpersonal and intercultural skills. We are looking for self-motivated and broadly interested individuals with a strong sense of responsibility.

Our offer: The positions are available for four years. You will join an interdisciplinary team of life scientists and bioinformaticians who use the latest proteomic approaches and equipment to better understand plant biology. The TUM is one of the best academic institutions in Germany, a well worked out international program, offers a stimulating work environment and excellent future perspectives.

Application process: Applicants should send a dossier containing a motivational statement (max. one page), a curriculum vitae summarizing qualifications and experience, copies of degrees and transcripts of study records, names and the email addresses of at least one referee as a single PDF document and no later than March 31st 2022 to info.proteomics@ls.tum.de. Online interviews will be conducted with selected candidates and remaining shortlisted candidates will be invited to the TUM campus in Freising, Germany for one full week of face-to-face meetings with representatives of the faculty of life sciences, the TUM Graduate School and individual research groups. All successful candidates are required to start October 1st, 2022.