

The Bioinformatics Lab at the Technical University of Munich, TUM Campus Straubing for Biotechnology and Sustainability and the Weihenstephan-Triesdorf University of Applied Sciences is looking for a candidate for a Bachelor's or Master's thesis with the topic

Design of a Web Application for Automatic Seed Germination Assessment

at the earliest possible date.

Seed research is mainly done by manually assessing germination experiments, which is time consuming and error prone. Modern machine learning based methods (such as deep learning) have been used in order to automate this process. Currently, this software can only be used by domain experts. The goal of this thesis is to develop a responsive and modern web-application that can be easily used to discriminate the germination status of seeds from images.

Your tasks:

- Literature research
- Implementation of a modern web-application using the Python Django Web Framework
- Focus on a user-friendly interface

Your skills:

- You are close to finishing your Bachelor's or Master's degree, preferably in a technical field
- Strong programming knowledge in Python
- Preferably knowledge in web development (Django Web Framework)
- Preferably knowledge of Single Page Applications
- Preferably knowledge of HTML5, CSS and Javascript
- Ability to work and learn new topics autonomously
- Proactive, goal-oriented and communicative way of working
- Good language competence in English, written as well as spoken