Applied Sciences for Life – This claim describes the unique range of subjects at Weihenstephan-Triesdorf University of Applied Sciences, all of which clearly and consistently focus on the life sciences. The university serves approximately 6,100 students in degree programs located at three different campus locations (Freising, Triesdorf, Straubing), making us one of the most important green universities in Europe.

The Bioinformatics Research Lab (https://bit.cs.tum.de) located at the Technical University of Munich, Campus Straubing for Biotechnology and Sustainability, Germany (as cooperating research institute with the Weihenstephan-Triesdorf University of Applied Sciences), offers the following full-time position:

**Research Scientist/Ph.D. Student (f/m/d)**

for the project “KI-PLANET”

Identification Number M740-SR

The position is for a fixed term until February 28, 2027.

We are looking for a highly motivated and excellent candidate as a research assistant (m/f/d) in the field of machine learning. The position deals with computer vision for automatic phenotyping of plant diseases in image data. To this end, you will develop new deep learning-based phenotyping methods that can be easily adapted to new phenotypes and diseases for which little annotated data is available. One aim of the project is to phenotype real plants from our industrial plant breeding partner to test the developed methods and their quality and to perform QTL mapping and genome-wide association studies to select promising candidates for further breeding. Another goal is to develop a web application based on Python Django that allows breeders to store and analyze data in the browser.

**Job Description:**
- You will develop novel machine learning and computer vision methods for phenotyping plants in image data
- You will develop bioinformatic pipelines in which you correlate the extracted phenotypes with genetic data
- You will work in close cooperation with our industry partner on project-relevant research questions
- You will develop and extend cloud-based web applications and databases to analyze image-based data
- You will write scientific publications and present scientific results at international conferences

**Your Profile:**
You are interested in independent scientific work. In addition, you are goal-oriented, have analytical skills, scientific curiosity and are a team player. Furthermore, you have a very good command of written and spoken English and very good programming skills in Python. Very good knowledge of machine learning, computer vision and basic knowledge of bioinformatics complete your profile. Basic knowledge of the German language would be an advantage to communicate with our industry partners. A German driver’s license is highly advantageous to travel to our experimental sites.

**Requirements:**
Strong academic background with a master in computer science, mathematics, bioinformatics, computational biology/biotechnology, statistics or related field.

**Please Note:**
The starting date will be at the earliest date possible. Pay scale in accordance with the collective agreement for the public service up to pay group 13 TV-L.
Severely disabled candidates are preferably employed in case of essentially equal suitability, competence and professional performance. Qualified female candidates are explicitly encouraged to apply for this position.

Foreign professional qualifications/foreign university degrees can only be taken into account if you can provide proof of equivalence/recognition. You can find the office responsible for this via the portal www.anerkennung-in-deutschland.de.

If you are interested in this position, please apply directly to the online form on the homepage of the HSWT ("Apply now") until 21.01.2024 including a CV, a statement of interest, a summary of your previous work experience, a list of publications, contact information of three references and copies of certificates (Bachelor, Master and Ph.D.).

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