Chair of Agrimechatronics
TUM School of Life Sciences
Technical University of Munich

PhD Position

Hyperspectral Camera Systems for Autonomous Off-Road Vehicles in Dusty Environments

The Chair of Agrimechatronics at the Technical University of Munich (TUM)

invites applications for the position of a Research Assistant (Doctoral Student). M/F/D. Applications from disabled persons with essentially the same qualifications will be given preference. TUM strives to raise the proportion of women in its workforce and explicitly encourages applications from qualified women.

About the position

The position contains both teaching duties and participation in research projects. The research project topics focus on improving object recognition through computer vision in dusty conditions by incorporating hyperspectral cameras. In addition, assisting in project applications and general development duties of the Chair. The position is available from 01.12.2025.

About us

The Chair of Agrimechatronics (Prof. Oksanen) studies especially Intelligent Machines for Agriculture. The research themes include topics like tractors and other agricultural vehicles and robots, tractor-implement automation, communication technologies for vehicles, navigation, guidance and planning, positioning systems, model-based control of mechatronic systems, drives and power systems, and robotic implements.

We offer

As a part of our international team in the northern Munich area, you will have an excellent opportunity to develop yourself as a team player as well as an independent researcher. Our work is interdisciplinary, international, and in-depth, but also practical. We offer the possibility to obtain broad and profound expertise, both theory and practice, in the field of agricultural applications, technology, and research.

Compensation

The position will be paid in accordance with the Collective Agreement for the Civil Service of the Lands (TV-L).

Your qualifications

- A Master's level university degree in engineering (e.g. Computer Science), completed with above-average results
- Good skills (both theory and practice) in one or several of the following topics: Computer Vision, Machine Learning, Hyperspectral Cameras
- Professional proficiency in written and spoken English

Application process

Send your application in English by email to amx@wzw.tum.de with the title "Research Assistant application" **at the latest 01.07.2025,** including

- A cover letter (for example, elaborating your background, interests, and motivation)
- Curriculum Vitae (CV) in English
- PDF copies of earned university degrees and transcripts of individual grades
- PDF copy of your Master's thesis or a seminar paper

Data Protection Information: When you apply for a position with the Technical University of Munich (TUM), you are submitting personal information. Data protection information according to Art.13 of the data protection basic regulation (DSGVO) for the collection and processing of personal data in the context of your application. By submitting your application, you confirm that you have acknowledged the above data protection information of TUM.

More information **http://www.amx.wzw.tum.de/**