

For the Institute of Logistics Engineering at Hamburg University of Technology (TUHH), we are seeking to fill the following position at the earliest possible date:

Student Research Assistant (m/f/d) – Computer Vision and Predictive Modeling for the SAMSON Project

With a focus on the development of smart automation systems and services for fruit growing in the Lower Elbe region, the SAMSON project addresses the specific challenges of the Alten Land region, Europe's second-largest contiguous fruit-growing area.

In this context, we are looking for motivated students (m/f/d) to support the SAMSON project by developing and applying computer vision and predictive modeling approaches for the automated detection, counting, and yield estimation of apples on trees prior to harvest. The position involves working with AI-powered methods to enable sustainable orchard management and data-driven decision-making for fruit growers.

Your Tasks

1. Refinement and optimization of existing system structures and workflows
2. Working with collected hardware data from camera and LiDAR sensors
3. Preprocessing, cleaning, and structuring sensor data for further analysis
4. Supporting research activities in the field of computer vision and predictive modeling.
5. Assisting in the development, evaluation, and improvement of AI-based methods for smart automation in fruit growing.

Your Profil

- Enrolled student (m/f/d), preferably in Computer Science, Mechatronics, Electrical Engineering, or a related field
- Basic knowledge of Python, C++, or ROS is desirable but not required
- Initial experience in computer vision and yield prediction, as well as first exposure to edge devices, is desirable but not mandatory.
- Ability to work independently and responsibly
- Fluent in English or German

Our Offer

- Structured onboarding into the research environment
- Insight into leading research projects in the field of Technical Logistics and smart automation systems
- Flexible working hours in a creative and appreciative work atmosphere
- Modern technical equipment and the possibility of remote work (home office)
- Participation in team events such as barbecues and Christmas celebrations

Do you have any questions?

Please feel free to contact Jiahua Wei at jiahua.wei@tuhh.de or by phone at +49 40 30601-4893.

Hamburg University of Technology (TUHH) is committed to equal opportunities and a respectful working environment. Women are particularly encouraged to apply and will be given priority in cases of equal suitability, qualifications, and professional performance due to their underrepresentation.

Please send your **complete application documents** (cover letter, CV, and certificate of enrollment) **by March 27, 2026**, to jiahua.wei@tuhh.de.