

Internship / Working Student / Master Thesis

Building Intelligent and Integrated Systems for a Regenerative Future

KIREAP is an innovative "Deep-Tech Start-Up" incubated at the Technical University of Munich (TUM Ventures Labs) and CUSAT (Cochin University of Science & Technology), India. We empower industries with smarter decisions, optimized processes along their value chain.

For societal impact: KIREAP democratizes and digitizes the agricultural value chain – from farm to processor. Our food system, with its more than 500 million smallholding farmers, suffers from climate change and inefficiencies leading to unpredictability of prices, 20% of food loss, and up to 20% of the world's CO2 emissions.

Taking a technology leap: Our proprietary solutions drive **autonomous ecosystem intelligence** in the agriculture vertical and beyond, by integrating data and real-world processes alongside the entire supply chain, leveraging AI-based optimization models for cost efficiency and sustainability, while providing full traceability on our blockchain platform to the last mile.



Our solutions already support 15'000 Indian farmers with limited technological and financial resources benefiting from our digital supply chain platform, digitalizing quality and logistics without being dependent on intermediaries. Our remote sensing solution integrates a drone-based precision agriculture platform combining satellite systems, weather data and multispectral imagery generating insights with AI models for better decisions.

For our Munich Center of Excellence

Remote Sensing Solutions

we seek an

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to support us in

- Developing an AI system that analyzes drone-collected images to understand crop status.
- Improving cost-efficiency in receiving detailed crop information using regular vs. multispectral cameras.
- Improving the accuracy of predicting crop yield using a combination of multiple data sources.

Remote Sensing for Smart Field Agriculture (intern / student)

Your tasks

- Perform research on farmer user stories & quality standards
- Support the team in analyzing crop / corn quality using remote sensing solutions
- Collect images from existing data sources to train our AI models
- Assess the remote sensing business model

You are

- Enthusiastic about solving great societal challenges for a regenerative future
- A problem solver without hesitation to take on complex tasks
- A continuous learner
- Reliable and resilient
- Self-motivated and autonomous, willing to work remotely

Your experience

- You study/studied entrepreneurship, life science and/or regenerative agriculture with a specialization on data analytics, or computer science
- Python and ideally also C++ programming skills.
- Knowledge in any one of Computer Vision, AWS, ROS, MAVLink is a plus
- First experience in the field of innovation methods and agile project management
- A passion for Deep-Tech and Start-Ups

What we offer

- 6 months Internship
- Work closely to extraordinary high-tech solutions at new frontiers
- Exposure to working in a dynamic and multicultural team across several continents
- Start-up culture

Are you ready to be part of a future-oriented start-up with flat hierarchies, and are you ready to take on your own responsibilities in an amazing challenge? Let's chat!

Send your CV to people@kireap.com. For inquiries, contact: philipp.rathjen@kireap.com