IDP

Development of a Tile Server Backend for Large Imagery Datasets

About Ocell:

Ocell offers innovative earth observation solutions for manned and unmanned aerial vehicles. We invented a new approach for collecting aerial data with higher resolutions than satellites and for bigger areas than what drones could deliver. Ocell uses various machine learning approaches to extract valuable information from these multi-dimensional data sets.

What we want to achieve with you:

With our network of pilots we generate multispectral imagery of several ten thousand hectares of farmland and forests. This imagery can be used to extract plant health information preventing catastrophic crop failures. Our datasets need to be stored efficiently in large online databases for worldwide easy access, dynamic loading in browsers and forwarding to machine learning pipelines. Queries have to be made based on location, time and spectral band.

What we offer:

• Early involvement in a startup
• Self-responsible work style
• Having a say in technical decisions
• Access to large data sets
• AWS credits
• Guidance and support
• Supervisor: Prof. Diepold (Chair for Data Processing - EI)

What we expect:

• Motivation and technically adeptness
• Experience with database development, AWS and web development
• Interest in startup environments
• IN2140 / IN2026 / IN2030 or other relevant modules

If you are interested please contact us: info@ocell.aero