

Remote Sensing Data Scientist Intern - Agriculture

Role Description:

This role is part of a dynamic Global Research Team responsible for feeding traders with recommendations and trading views, covering a wide range of agricultural commodities. The intern will report to the Crop Modeller and will have the opportunity to contribute to, design, develop and implement new approaches for crop acreage and yield estimation. The intern will be based in Geneva, Switzerland.

Work Activities / Tasks:

- Contribute to developing and validating machine learning models for crop yield and acreage estimation using geospatial big data (mainly satellite data: Sentinel-1/2, Landsat 7&8, etc. + global weather forecasts: GFS).
- Design and implement processing workflows (from data gathering to image correction and cloud removal to learning model output visualization).
- Develop various trading tools based on workflow outputs.

Functional Competencies and Behavioural Competencies:

- Advanced knowledge of satellite data products (Sentinel-1/2, Landsat, MODIS, SMOS, etc.).
- Practical experience in implementing processing workflows of satellite data.
- Practical experience in applying machine learning techniques in the field of earth observation remote sensing.
- Good programming skills and familiar with the main packages for handling geospatial data in R or Python.
- Familiar with meteorological reanalysis data is a plus (NLDAS, GLDAS, GFS, etc.).
- Familiar with basic crop physiology is a plus.
- Professional proficiency in English is mandatory, other languages are an asset.

Essential Education:

- MSc (completed or close completion) in geoinformatics, quantitative geography, EO remote sensing, data science, or in a related field.

NOTE

The recruitment process will include a test on programming, statistics and remote sensing.

Please send your application to Ms Ladya Pelamourgues, HR Business Partner, ladya.pelamourgues@ectp.com