

Internship: Net Radiation Modelling



Company description

eLEAF is a Netherlands-based high-tech company that supplies reliable, quantitative data on water and vegetation on any land surface to support sustainable water use, increase food production, and protect environmental systems. eLEAF is active worldwide and has completed projects in over 30 countries. eLEAF closely works with partners that are at the forefront of new developments in food security and water productivity, enabling them to deal with challenges and problems the moment they arise and develop a structural solution for it.

At the heart of the company is eLEAF's PiMapping® technology. This technology is a set of algorithms used to enrich raw satellite imagery. Through energy balance modelling land surface atmosphere interactions are described, resulting in pixel specific information on a wide variety of parameters, including biomass production, crop water use, water shortage and weather conditions. These parameters form the basis of consultancies and operational applications. With this technology eLEAF has been awarded "Geospatial Solutions Company of the Year 2013".

Job description

eLEAF has opened a position to perform research on the land surface net radiation. Energy balance algorithms such as SEBAL require information on the net radiation at various timescales. During this research a global applicable model will be developed and tested to model the land surface net radiation both during daytime and during nighttime. This model will be based on thorough literature review and tested with available field measurements of the net radiation.

The assignment can be tailored to fit a thesis or internship project at MSc or BSc level. The final content and timelines will be agreed upon by the candidate, university and eLEAF before the internship starts.

What we ask

- Acquainted with land surface fluxes and net radiation
- Strong programming knowledge
- Independent worker

What we offer

- Internship position in a dynamic internationally oriented company
- Workplace in Wageningen
- Introduction to the growing industry of application of satellite imagery
- Internship compensation

Application

More information about eLEAF in general can be found at www.eleaf.com. For more information you can contact Mr Maurits Voogt, Managing Director of eLEAF (maurits.voogt@eleaf.com). Applications for this position can be submitted to Mr Voogt as well.