Post-doctoral fellowship at CESBIO

Applications are invited for one research contract fellowship starting, at CESBIO

S1&S2 synergy for soil moisture estimation
(12 months contract)

CESBIO is developing, in collaboration with other partners (UMR TETIS), radar data inversion approaches for monitoring the soil moisture conditions of the soil surface using SAR sensors in synergy with optical data. In the past years, different algorithms have been proposed using different techniques for estimating soil moisture in agricultural areas (neural network, change detection, cost function optimization etc), (e.g. El-Hajj et al., Remote sensing, 2017, Gao et al., Sensors, 2017, Zribi et al., WRR, 2014).

As part of this contract, we propose a generalization of the approaches already developed by our teams over different studied sites in Mediterranean region. The final objective of the POMME-V project is to assimilate these soil moisture products in Land Surface models (such as ISBA) in collaboration with our partners.

The net annual salary is about 36550 euros before income tax, depending on qualification.

Application should be made by e-mail by sending a resume, a cover letter, and the names, telephone and e-mail address of two referees to: mehrez.zribi@cesbio.cnrs.fr

The closing date for application: 15 May 2018.

The candidates should have knowledge of microwave remote sensing of continental surfaces. They should be familiar with programming data analysis in Python, and with matlab.

Funding source: « Sciences et Technologies pour l'Aéronautique et l'Espace » (STAE), Toulouse, France.