

TRuStEE - Training on Remote Sensing for Ecosystem modeling

Twelve PhD positions are offered in the frame of the project TRuStEE - Training on Remote Sensing for Ecosystem modelling, a Marie Skłodowska-Curie Innovative Training Network Action. This project aims to capacitate the next generation of scientists to understand and deal with the increasing pressure of environmental change on ecosystem functioning and land-atmosphere interactions. Each of these positions is for a period of 36 months starting in January – March, 2017. Details on the 12 PhD positions and How to apply are provided at the website http://itda-disat.it/?page_id=944

Application deadline: 12 December 2016. Applications received shortly after the deadline are likely to be considered. Priority will be given to applications received within the deadline.

Project Description

TRuStEE will train a new generation of scientists with complementary and interdisciplinary skills in ecosystem modelling, plant physiology, remote sensing technologies and big data analysis, addressing the specific objectives: 1) to identify essential biodiversity variables (EBVs) and the link with plant traits (PTs) and ecosystem functional properties (EFPs), inferable from remote sensing, 2) to investigate a completely new avenue for assessing vegetation photosynthetic efficiency from remote sensing measurements of canopy fluorescence, 3) to assimilate diverse remote sensing data streams with varying spatial and temporal resolution in dynamic ecosystem models and 4) to exploit new satellite missions (e.g. ESA-FLEX, ESA-Sentinels, NASA-GEDI) and Earth Observation products for the upscaling of PTs, EBVs and EFPs. TRuStEE project includes eight academic and two industrial partners representing six European countries: University of Milano-Bicocca (Coordinator), Italy; University of Exeter, UK; Consejo Superior de Investigaciones Científicas, Spain; University of Twente, Netherlands; Fondazione Edmund Mach, Italy; AeroVision BV, Netherlands; Max Planck Institut für Biogeochemie, Jena, Germany; Vlaamse Instelling voor Technologisch Onderzoek (VITO), Belgium; Forschungszentrum Jülich GmbH, Germany; QuestUAV Ltd, UK. The early stage researchers (ESRs) involved will strongly benefit from this network of internationally recognized scientists and private companies with relevant expertise in these topics through training courses, summer schools and secondments.

Nr of positions available : 12

Research Fields

Environmental science - Global change

Eligibility criteria

Applicants should meet the following eligibility criteria:

- have the background and expertise required for the position;
- be at the time of recruitment in the first four years of research career (full-time equivalent research experience) calculated from the date on which the Master degree was obtained;
- not have been awarded a Doctoral Degree;
- not have resided or carried out his/her main activity in the country of the host institute for more than 12 months in the last three years immediately prior to the reference recruitment date;
- be proficient in both written and spoken English.

Research Profiles

First Stage Researcher (R1)

Benefits

The Marie Skłodowska-Curie programme offers highly competitive and attractive salary and working conditions. Exact salary will be confirmed upon appointment. It consists of:

- a living allowance (= 3110 euro/month [the Marie Skłodowska-Curie rules apply a correction factor to this amount to allow for the cost of living in different countries: 1.067 to Italy, 0.988 to Germany, 1.043 to Netherlands, 0.976 to Spain, 1.000 to Belgium and 1.203 to United Kingdom])
- a monthly mobility and family allowance (= 600 and 500 euro/month depending on the family situation). Furthermore, PhD tuition fees for the ESR are covered and the research project is aimed at defending a thesis and obtaining a PhD degree. In addition to their individual scientific projects, all positions will benefit from further continuing training, which includes summer schools and secondments (All ESRs will be seconded at least once at another partner premises), a variety of

training courses as well as transferable skill courses, active participation in workshops and conferences, and exposure to SMEs and Universities from the different European countries involved in TRuStEE.

Comment/web site for additional job details

Apply at the website http://ltda-disat.it/?page_id=944