Job Announcement, 03. Sept. 2009

Job Title

Job Title: **ESR agreement # 2 - Hyperspectral sensor modelling and simulation**
Number of positions: 1
Start date: (1 February 2010; earlier start date is eventually feasible (to be confirmed))
Duration: 12 months
Salary: EC Marie Curie salary and allowances

Applications are invited for an Early Stage Researcher (ESR) position within the framework of the European Marie Curie Research and Training Network HYPER-I-NET) at

- Kayser-Threde GmbH (KT), Munich, Germany in cooperation with the German Aerospace Center (DLR), Oberpfaffenhofen, Germany

The entire HYPER-I-NET network comprises 15 scientific partners in 10 European countries: http://cordis.europa.eu/mc-opportunities/index.cfm?fuseaction=dataForm.showDataDetail&obj_id=13104&obj_type=PRJ

Job Description:

A modular sensor simulation tool shall be designed and implemented. It comprises the spectral, radiometric, and geometric instrument characterization using a modular software design for the various components respectively performance aspects of an imaging spectrometer. Existing modules from DLR and KT and other partners will be made available.

The sensor simulation tool shall be flexible to support the assessment of future hyperspectral and multispectral instruments designed for the solar reflective region from 400 - 2500 nm, but also for the thermal-infrared region from 8-14 micron. Synthetic scenes shall be simulated using spectral reflectance / emissivity databases for different applications (e.g., agriculture, forestry, mineralogy) employing results of radiative transfer calculations available in atmospheric databases. The simulation tool shall be used to support lab and vicarious calibration activities.
Candidates should have a Master (MSc) or equivalent degree in Physics, Meteorology or Engineering Sciences with a background in remote sensing as well as advanced programming skills (Matlab, IDL), a good knowledge at least of English and a strong motivation to work as part of a team.
The position offers opportunities to collaborate with other members of the network, and to attend short courses, meetings, summer schools and workshops held at the project partner sites and international sites. Preference will be given to applicants who are citizens or residents of the European Union and Associated Countries**. The position is NOT open to German applicants**. Well qualified women researchers are particularly encouraged to apply. You may check your eligibility on:

http://ec.europa.eu/research/fp6/mariecurie-actions/action/fellow_en.html
(section 5)

Minimum Information to be provided with the application:
1. Expression-of-interest letter.
2. Curriculum Vitae.
3. Bibliography (numbered).
4. Description of the candidate's research or development achievements and experience.
5. Names and contact details for two references.

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Place Of Work:
Germany Kayser-Threde GmbH (KT), Munich, Germany

About Kayser-Threde GmbH

Founded in 1967, Kayser-Threde is a leading systems house providing high-technology solutions for the industrial, aerospace and scientific sectors. These include applications and solutions in manned and unmanned space missions, optics, crash test data acquisition and process control.

Kayser-Threde is well respected for working closely together with its customers from a project's start through to completion, including all aspects from studies, analyses, systems design, special developments, production, testing, implementation, operation and support.

Born out of the rigorous requirements demanded in the aerospace business, Kayser-Threde has developed outstanding quality standards reflected in the reliability of its systems, solutions and processes.

Kayser-Threde belongs to the OHB Technology Group. Further information on Kayser-Threde and the Kayser-Threde Group is available at www.kayser-threde.com