GOME-2 Level 1 Calibration & Validation Consultant based at EUMETSAT, Darmstadt, Germany

HAMTEC Consulting a provider of quality consultants to the aerospace industry.

We are currently seeking a GOME-2 level 1 Cal/Val consultant shall have the experience and capability to fulfil the assigned tasks with a minimum of supervision and have good inter-personal skills. He/she shall be familiar with satellite instrument characteristics for Earth observation, in particular calibration and validation of moderate spectral resolution data in the UV/Visible part of the spectrum.

Location: Darmstadt, Germany
Position: Contract
Rate: € TBD
Start Date: July 2011
Duration: 2 years plus a one year option
Closing date: 6 May 2011

TASKS:

This consultancy is primarily to support the calibration and validation of GOME-2 level 1 data products. The main focus of the activity is the calibration and validation of the GOME-2 UV/Visible radiance and polarisation sensitive data, the evaluation of the long-term degradation signatures in GOME-2 data and methods for generation of degradation correction factors, cross-calibration and validation activities both with instruments of a similar class and GOME-2 instruments on Metop-A and Metop-B, and investigation of problems indicated by feedback from level 1 data users.

Associated with this activity is the development of prototype software to support the analysis and supporting documentation such as algorithm specifications, test data descriptions and validation reports. The consultant will be fully integrated in the LEO Support Team within the Meteorological Division but will also be expected to interface with experts across EUMETSAT as required.

The tasks of the Consultant will include:

- analysis of in-flight calibration performance of the GOME-2 instruments on Metop- A and Metop-B
- evaluation of the applicability of the on-ground characterisation key data to the inorbit situation of GOME-2 including radiometric and polarisation sensitivity key data including angular dependencies.
- analysis of the long-term degradation signatures on GOME-2, including from all in-flight calibration sources, sun and Earthshine data
Qualifications and Experience

- A University degree (or equivalent) in a relevant discipline
- A minimum of 5 years experience in the field of remote sensing product data analysis including at least 2 years of experience of UV/Visible calibration and validation

Essential Skills

- Remote sensing data analysis using UV/Visible satellite data;
- Calibration and validation of level 1 satellite data products;
- Use of (vector) radiative transfer models;
- The EPS missions and instruments;
- Writing concise and comprehensive scientific and technical reports;
- Demonstrated skills in a higher programming language;
- Specification, design and coding of complex product processors;
- Testing and verification of complex data processing systems;

Desirable Skills:

- Quality control of satellite data and products;
- Operational product processing environments;
- Knowledge of SQL;
- Software build environments and tools (e.g. make, imake, eclipse, insure++);
- Source code control system, (e.g. Subversion or CVS).
Security

In line with Asylum & Immigration Legislation, all applicants must be eligible to live and work in the EU. Documented evidence of eligibility will be required from candidates as part of the recruitment process. Furthermore, in view of the nature of the work the company is in, all potential employees will undergo stringent reference and identity checks.

Please send you CV in English to:
Simon Davidson via recruit@hamtec.co.uk
To register with HAMTEC Consulting and to view current opportunities go to our website:
http://www.hamtec.co.uk