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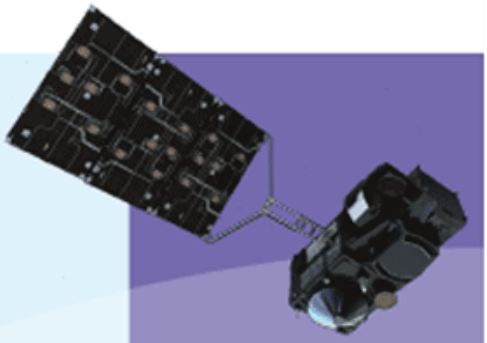

VN 20/33 REMOTE SENSING SCIENTIST – INSTRUMENT NAVIGATION, REGISTRATION AND CALIBRATION (2 POSTS)

Image Navigation, Registration and Calibration (INRC) is a critical function for achieving targeted performances in the processing of Earth observation satellite data. This builds on in depth scientific understanding of specific design features of spacecraft and instruments (e.g. pointing, geometric, radiometric and multi-spectral performances) and of the use of external elements (e.g. selected natural observation targets) to improve over intrinsic performances of instruments and achieve Level 1 products of suitable geometric and radiometric quality.

EUMETSAT is recruiting two new members of the Image Navigation, Registration and Calibration Competence Area of its Remote Sensing and Products (RSP) Division.

These two Remote Sensing Scientists – Instrument Navigation, Registration and Calibration will provide scientific expertise on relevant INRC algorithms, support the development of new ones , monitor the quality of operational Level-1 image products and support the commissioning of new imaging missions e.g. Meteosat Third Generation, EPS-Second Generation and Copernicus Sentinel-3/-4/-5. From low Earth and geostationary orbits.

One post will focus on geometric processing, navigation, and geometric image quality, and the second on radiometric processing, instrument calibration, and radiometric image quality.

LOCATION
Darmstadt, Germany

QUALIFICATIONS
Advanced university degree in remote sensing, physics, engineering, or related fields.

LANGUAGES
The official languages of EUMETSAT are English and French. Candidates must be able to work effectively in English. Some knowledge of German and French would be an advantage.

DEADLINE
18 August 2020

DUTIES

- Support algorithm development for Level-1 data processing chains of current and future imaging missions and the
- Support the verification, validation and support during the initial operations phase of the Level-1 data processing

commissioning and maintenance of these chains;
Support the monitoring of image quality and calibration of the generated Level-1 image products for both low Earth (LEO) and geostationary (GEO) orbit systems, including the development of state-of-art tools for analysis;
Develop and maintain prototype software, in particular geometric and radiometric processing algorithms, in order to improve the operational implementations of Level-1 processing across low Earth and geostationary orbit missions;
Support the development, procurement, and operations of tools to monitor Level-1 calibration and product quality;
systems; including commissioning, the initial focus being on the MTG and EPS-SG missions;
As a member of multi-disciplinary Instrument Functional Chain teams, interact and cooperate with other scientists and instrument system engineers to optimise the design, development, performance and commissioning of end-to-end instrument chains from sensing to Level 1 products;
Support interactions with ESA, other development partners and contractors responsible for the development of satellites and instruments to appropriate the required instrument knowledge
Interact with the Operations team to optimise the performances during exploitation;
Initiate and lead relevant scientific/technical studies, including the management of external support contracts.

SKILLS AND EXPERIENCE

In depth scientific and/or engineering knowledge of the use and development of geometric and/or radiometric remote sensing algorithms for Level-1 instrument data processing;
Demonstrated knowledge of instrument calibration and validation methods, including continuous quality monitoring of satellite products;
Fluency in a high-level programming language is important (preferable C, C++, or Python) in UNIX environments, including the usage of parallel processing;
Experience with scientific applications and analysis tools (e.g. MATLAB or IDL);
Experience with collaborative projects covering research and development work in an operational environment is an advantage;
Excellent problem solving, analysis, synthesis, and presentation skills and quality orientation;
A demonstrable learning orientation and the willingness to expand own knowledge/skills;
Good inter-personal skills and a proven ability to apply these to interactions within a team and between teams.

EMPLOYMENT CONDITIONS

The initial contract will be of 4 years' duration, with subsequent 5 year contracts being awarded thereafter, subject to individual performance and organisation requirements. There is no limit to the

amount of follow-up contracts a staff member can receive up to the EUMETSAT retirement age of 63 and there are certainly opportunities to establish a long career perspective at EUMETSAT.
This post is graded A2/A4 on the EUMETSAT salary scales. The minimum basic salary for this post is EURO 5,797 per month (net of internal tax) which may be negotiable on the basis of skills and experience. The salary scale provides for increments on the anniversary of taking up employment, and scales are reviewed by the EUMETSAT Council with effect from 1 January each year. In addition to basic salary, EUMETSAT offers attractive benefits. Further information, including salary details, is available on the EUMETSAT web site.

EUMETSAT is committed to providing an equal opportunities work environment for men and women. Please note that only nationals of EUMETSAT Member States may apply. The EUMETSAT Convention requires that Staff shall be recruited on the basis of their qualifications, account being taken of the international character of EUMETSAT.

ABOUT EUMETSAT

EUMETSAT is Europe's meteorological satellite agency. Its role is to establish and operate meteorological satellites to monitor the weather and climate from space - 24 hours a day, 365 days a year. This information is supplied to the National Meteorological Services of the organisation's Member and Cooperating States in Europe, as well as other users worldwide.

EUMETSAT also operates several Copernicus missions on behalf of the European Union and provide data services to the Copernicus marine and atmospheric services and their users.

As an intergovernmental European Organisation, EUMETSAT has 30 Member States (Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, The Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.)

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