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VN 19/48 INSTRUMENT CHAIN ENGINEER FOR FUTURE COPERNICUS SENTINEL MISSIONS

EUMETSAT is already involved in the development and operations of the Copernicus Sentinel 3, 4, 5 and 6 missions in cooperation with ESA and is now contributing to phase A/B studies for future High Priority Candidate Copernicus Sentinel missions of relevance to its mandate, in particular a CO₂ monitoring mission (CO2M) it will also operate.

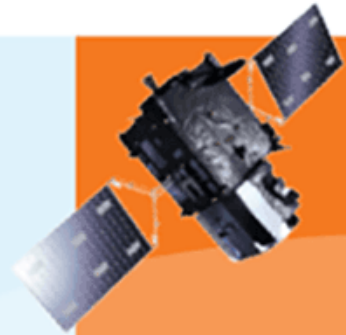
Reporting to the Project Manager for Future Copernicus Sentinel Missions, the Instrument Engineer will follow-up the design and development of the optical (from visible to short wave infrared) CO2M instruments, simulators, algorithms and Level 1 ground prototype processors and support the EUMETSAT appropriation of information that is critical to the development of data processing chains and satellite operations.

DUTIES

Follow-up the evolutions of performance and operability requirements of the CO2M instruments in cooperation with ESA, and support the assessment of compliance with mission and system-level requirements; Follow-up the ESA-led design and end-to-end development of the instruments, analyse and assess results of on-ground calibration, testing and qualification and support the assessment of the implications of non-conformances at system and data processing level; Follow-up the design and development of the instruments

Assess the relevance of the instrument-dedicated tools developed by ESA for the purpose of in-orbit verifications to the commissioning of Level 1 products;

Assess the need and define requirements for additional tools needed for calibration, commissioning and validation of Level 1 products, and follow-up and support the development of agreed tools; Follow-up the ESA-led assessment of in-orbit performances of the instruments



LOCATION

Darmstadt, Germany



QUALIFICATIONS

University degree or equivalent in a relevant discipline (e.g. physics, engineering)



LANGUAGES

Candidates must be able to work effectively in English and have some knowledge of French.



DEADLINE

2 January 2020

simulators, algorithms and Level 1 ground prototype processors, assess their consistency with the instrument design and development and their suitability to support the development of operational Level 1 processing chains;
Participate in system, satellite and instrument reviews as appropriate;
In coordination with the ESA and EUMETSAT Mission/Project Scientists co-convening the CO2M Mission Advisory Group (MAG):

- Attend MAG meetings as an observer and contribute to agreed actions;
- Support the definition of requirements for calibration, commissioning and validation of Level 1 products;
- Support the definition of a joint ESA-EUMETSAT calibration and validation plan, and the identification of respective and shared contributions and of those required from third parties;

during Satellite In Orbit Validation Tests;
Support commissioning of instruments and end-to-end operability and performance validation;
Support commissioning Level 1 products and the implementation of the calibration-validation plan;
Support reporting to EUMETSAT Member States.

SKILLS AND EXPERIENCE

Engineering experience in the design and development of optical observation or space science instrument chains, including derivation of algorithm for instrument data processing;
Experience with grating spectrometers in the visible to shortwave infrared range would be a distinct advantage;
Excellent team-working, communication and presentation skills
Pro-active attitude and the ability to work autonomously with a minimum of supervision

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.

This vacancy is subject to approval in the 2020 EUMETSAT Budget and therefore may be filled no sooner than 1 January 2020.

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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