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A WORLD OF DIFFERENCE

# VN 20/25 OPTICAL INSTRUMENT SYSTEM ENGINEER

EUMETSAT is developing the EUMETSAT Polar System of Second Generation (EPS-SG) that includes Metop-SG A and Metop-SG B satellites developed and procured through ESA. The EPS-SG mission will monitor weather and climate from the mid-morning polar orbit over a period of 21 years starting in 2024/25, based on three successive pairs of Metop-SGA/B satellites.

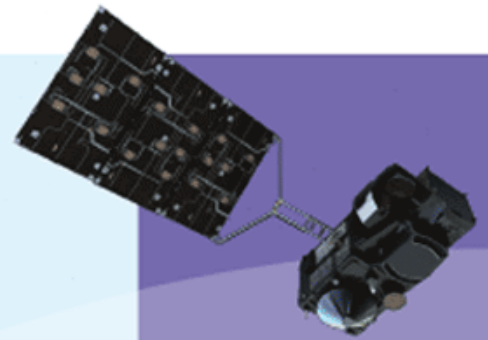
With the exception of IASI-NG and METimage, all Metop-SGA instruments are developed and procured under ESA responsibility, including two optical instruments, the Multi-viewing, Multi-channel and Multi-polarisation Instrument (3MI) and the Copernicus Sentinel-5 UV-to-SWIR spectrometer.

Reporting to the EPS-SG Instrument Systems Manager, the EPS-SG Optical Instrument System Engineer will follow up the ESA-led development of the 3MI and Copernicus Sentinel-5 instruments, acquire, maintain and share in-house knowledge on instrument design, performances and operations aspects. As a member of the EUMETSAT Instrument Functional Chain Teams involving also instrument scientists, system, ground segment and operations preparation engineers, he/she will support the development, operations preparation and commissioning of the end-to-end 3MI and Sentinel-5 instrument chains covering all functions from instrument commanding to delivery of products to users.

## DUTIES

As the EUMETSAT technical interface of the ESA 3MI and Sentinel-5 instrument project teams, ensure day-to-day coordination for the timely acquisition of information and knowledge on design, test results, expected performances, and operations of the 3MI and Sentinel-5 instruments by EUMETSAT;  
Maintain and share this

Follow up the development of 3MI and Sentinel-5 Level 1 processing algorithms associated ground prototype processors and instrument data simulators, and assess their consistency with the instrument development and their suitability to support the development of operational Level 1 processing chains;  
Manage the cooperation with CNES for the provision of



### LOCATION

Darmstadt, Germany



### QUALIFICATIONS

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



### LANGUAGES

The official languages of EUMETSAT are English and French. Candidates must be able to work effectively in English and have some knowledge of French.



### DEADLINE

22 May 2020

information and knowledge within the EUMETSAT 3MI and Sentinel-5 Instrument Functional Chain Teams;  
Follow-up the assembly, integration, on-ground calibration and testing of the 3MI and Sentinel-5 instruments and relevant aspects of subsequent Metop-SG A satellite tests carried out under ESA responsibility;  
Analyse and assess results of 3MI and Sentinel-5 on-ground calibration, testing and qualification and identify issues having potential implications for the design, development, performances, operations and commissioning of end-to-end instrument chains;  
As a member of the EUMETSAT 3MI and Sentinel-5 Instrument Functional Chain Teams, support the assessment of the implications of non-conformances for the development and validation of instrument data processing, operations and commissioning;

support to the development of 3MI Level 1b processing, vicarious calibration and performance assessment tools and other relevant EUMETSAT contracts requiring knowledge of the design 3MI and Sentinel-5 instruments;  
Support the operations preparation and commissioning of the Sentinel-5 and 3MI end-to-end instrument chains in cooperation with ESA, focusing on instrument operability and performance validation;  
Participate in reviews at 3MI and Sentinel-5 instrument, Metop-SG A satellite and EPS-SG system levels;  
Support reporting to EUMETSAT management and Member States.

## SKILLS AND EXPERIENCE

Proven engineering experience in the full development cycle of a space-borne optical instrument;  
Experience in on-ground calibration of optical instruments would be an advantage;  
Knowledge of Level 0 and Level 1 processing of optical instrument data processing;  
Knowledge of level 1 algorithms would be an advantage;  
Experience in coordinating technical work with multiple and/or multi-disciplinary entities, preferably in an international environment;  
Pro-active attitude and ability to work autonomously with a minimum of supervision;  
Excellent team-working, communication, and presentation skills.

## 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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