

VN 21/49 Microwave Instrument System Engineer

The EUMETSAT Polar System - Second Generation (EPS-SG) will secure the continuation of meteorological observations from the mid-morning polar orbit over a period of 21 years, starting in 2024/25, based on three successive pairs of Metop-SG A/B satellites. EPS-SG will bring observations to a new standard, through the suite of innovative European instruments flown on the Metop-SG spacecraft. These include Microwave Sounder (MWS), Microwave Imager (MWI) and Ice Cloud Imager (ICI) instruments.

In parallel, phase-A activities for a potential expansion of EPS-SG are running and include the development of small satellites equipped with small microwave sounders which are envisaged to complement the EPS-SG microwave sounding mission.

Reporting to the EPS-SG Instrument Systems Manager, the Microwave Instrument Engineer will support the activities linked to the ESA-led development of the MWS instrument, as well as supporting activities linked to the development of new small microwave sounders in the frame of prospective LEO missions. He/she will acquire, maintain and share in-house knowledge on instrument design, performances and operations aspects.

As a member of the Instrument Team and together with instrument scientists, system, ground segment and operations preparation engineers, the post holder will also be involved in the development, operations preparation and commissioning of the end-to-end of microwave instruments chains covering all functions from instrument commanding to delivery of products to users.

Duties

- Provide technical support for the MWS instruments project teams to ensure daily coordination of information related to design, test results, expected performances and operations of these instruments;
- Follow the assembly, integration and testing of MWS on the Metop-SG
- Follow the development of the radiometers 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



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

25 January 2022

- satellites carried out under ESA responsibility;
- Analyse and assess results of microwave radiometer testing and qualification including any non-conformances and identify issues having potential implications for the design, development, performances, operations and commissioning of end-to-end instrument chains;
- processing chains;
- Support the operations preparation and commissioning of microwave radiometers end-to-end instrument chains in cooperation with ESA, focusing on instrument operability and performance validation;
- Maintain and share relevant information and knowledge within EUMETSAT on the microwave radiometers;
- Support activities related to the prospective activities with regard to future microwave passive radiometer missions.

Skills and Experience

- Proven engineering experience in the full development cycle of a space-borne passive microwave instrument;
- Knowledge of Level 0 and Level 1 microwave instrument data processing;
- 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 5,363 per month (net of internal tax but excluding pension contribution and insurances) 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 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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