

## Ground Stations System Engineer

### Description

WGS is looking for a Ground Stations System Engineer to join our Engineering Ground Stations service team at EUMETSAT (Darmstadt, Germany).

### Hiring organization

WGS Workgroup Solutions GmbH

### Date posted

September 17, 2021

### Responsibilities

Task will include the following:

- Contribute to the management of Ground Stations and System requirements from the definition phase through the traceability, verification, validation and maintenance stages using formal methods and tools (e.g. DOORs);
- Contribute to the Link budget analysis in UHF, L, S, X and Ka Band;
- Contribute to the operation and testing of RF and microwave tools and S/W package for generation of signal processing related simulations and/or semi-automated measurement procedures;
- Participate to the Ground Station operations activities during critical mission phases, pre and post launch (i.e.: SVT, LEOP, IOT and contingency).
- Contribute to the analysis and the implementation/testing of changes, or reengineering that may be required on the basis of user requirements or maintainability issues in the area of Ground Stations systems and subsystems.
- Contribute to the testing and validation of new software and firmware releases of Ground Stations systems and subsystems.
- Contribute to the remote operation and the maintenance of EUMETSAT Ground Stations in the areas of:
  - Monitoring & Control and S/W applications;
  - Transfer protocols for the spacecraft telemetry, telecommand and mission data
- Contribute to the coordination of the maintenance activities with the Ground Stations provision and maintenance providers and the investigations and rectification of anomalies.

### Qualifications

The Key Person shall have the following attributes and skills:

- A university degree in a relevant technical discipline (i.e., telecommunications, electronics, radio frequency or equivalent) or the equivalent work experience.
- Proven experience in the ground stations systems and subsystems engineering (TT&C and Mission Data Acquisition).
- Excellent analytical, synthesis, and presentation skills.
- Very good interpersonal, communication and reporting skills and an ability to apply these to the interactions within a team and between teams in a multi-disciplinary context.
- A systematic approach to work with the ability to plan their work and to cope with tight schedules and multiple tasks.
- The ability to work effectively under pressure and to manage complex tasks with minimum supervision.
- The capability to write accurate, concise, focused and consistent technical

documentation and reports.

Competence skills:

- Fluency in English
- Ground Stations requirements engineering cycle (including DOORS)
- Space to Ground and Ground to Space Link budget analysis
- Standard RF and microwave tools and S/W package for generation of signal processing related simulations and/or semiautomated measurement procedures
- Ground Stations payload data processing SW applications (e.g. data consolidators, demultiplexers, data integrity systems, etc...)
- CCSDS Space Link Extension configuration and debugging
- Conversant with CCSDS and/or ECSS standards
- In Orbit Test (IOT) systems
- Technical follow-up of upgrades or evolutions of operations ground stations including IV&V
- Diagnosis, debugging and technical assessment of ground stations hardware and software failures
- Configuration and testing of all TT&C and Payload data reception Ground Stations related systems (e.g. LNA, F&T, Frequency converters, SSPA, TLTs, RF switches, antenna modulators/demodulator, tracking systems, ACU, etc)
- Conversant with configuration management of hardware and software systems

**Contacts**

Interested applicants should submit their CV and Cover Letter in Europass format, either through the website or by emailing the WGS recruitment team at [vacancies@workgroup-solutions.com](mailto:vacancies@workgroup-solutions.com)

The position is open until filled.