



Satellite Ground Station Engineer

COMPANY: e2E SERVICES LTD.

JOB REF: RES.029

TYPE OF ROLE: Permanent

LOCATION: Darmstadt, Germany



Our Company

We have been at the forefront of innovation in the satellite communications industry for two decades, offering to all its stakeholders unrivalled expertise to design, develop and operate state-of-the-art solutions and systems, world-wide. Our portfolio of services and technology know-how covers the entire spectrum of any satellite communication project, from market opportunity sizing and end-user requirements down to ground network development, commissioning, and operations. To both commercial and defence related domains, we also offer unique modular and agile technology to enable a more user-friendly and accessible use of satellite communication resources.

Innovation and ingenuity are the guiding principles of anything we do for our customers. Working with e2E requires a high level of dedication and personal motivation, commitment, and a drive to continually seek to improve things but the results our Group has consistently achieved over the years, at personal and team levels, are outstanding and make e2E a great place to work.

Job Description

We are expanding our team and are seeking a satellite ground station engineer based in Darmstadt, Germany working as part of our multi-national project team.

In the context of Satellite Earth Observation ground segment, monitoring, and control systems in an operational Mission Control Centre environment. Provide support to the daily operations of the Ground Stations and their interfaces to other components of the ground segment to ensure their maximum availability and reliability. You will provide ground station engineering capability for both GEO and LEO missions. Provide a system-wide knowledge of the Ground Segments, particularly in the



Satellite Ground Station Engineer

areas of spacecraft monitoring & control and the flow of mission data, due to the central role the ground station plays in spacecraft and ground segment operations.

Support the ground station day-to-day operation and maintenance, analysis, design, development, and testing of the facilities which also includes the handling of anomalies, upgrades, and configuration changes for these facilities.

Key Responsibilities

- Long-term planning and short-term scheduling of the operational usage of the ground stations to support both the needs of the Flight Operations and Ground Stations engineering team.
- Interface with project teams for the implementation of system upgrades to support major operations projects and major activities described in the Operational System Mid-Term Evolution Plan. This will include ground station changes required to support major space segment evolutions.
- Interfacing with the ground stations maintenance teams and industry representatives to ensure optimised performance by the ground stations, including participating in the definition, specification, and implementation of any changes.
- Planning and co-ordination of upgrades, repairs, and evolutions with the engineering teams.
- Organising the validation of upgrades, repairs, and evolutions with the Controller Teams.
- Definition and maintenance of ground station operations procedures and operations guides.
- Maintaining operational ground stations databases.
- Investigation into anomalies, their documentation, classification and correction/mitigation, participation in associated Anomaly Review Boards.
- Provision of training, through production and presentation of written materials, practical demonstrations, and presentations, to other members of the Operations Department.

Skills, Character and Experience

Essential

- Graduate with a University degree (or equivalent) in a relevant technical discipline or the equivalent ground stations experience, with at least five years' experience in ground stations TT&C operations in support of multiple Geostationary (GEO) and/or Low Earth Orbit (LEO) spacecraft.
- At least five years' experience in a real-time 24/7 spacecraft operations environment, ideally in an earth observation environment.
- Excellent interpersonal and co-ordination skills
- Good communications skills, to allow the effective communication of information under a variety of circumstances.
- Working proactively within team and being able to work with the minimum of supervision. The variety of the tasks and the scope and complexity of the systems to be supported require a high degree of autonomy and good analytical skills.
- System software engineering in an operational earth observation environment.

Agility in Communications



Satellite Ground Station Engineer

- Monitoring & Control software application maintenance and configuration.
- Ground Stations Monitoring and Control.
- Baseband operation and configuration.
- Knowledge of ECSS and CCSDS standards in satellite Telemetry, Telecommanding, ranging & SLE (Space Link Extension)
- UNIX and Windows based operating system.
- TCP/IP, SNMP, UDP based communications protocols.
- C++ and Java programming languages and XML.

Desirable

Previous experience and knowledge in any of the following areas will be considered an additional asset:

- Major upgrades or evolutions of operational ground stations
- Defining and implementing the verification and validation of ground stations
- Interfaces between ground stations and ground segments
- First-line hardware and software failure diagnosis and correction
- Data Base Applications and related configurations control mechanisms.

Salary

- Competitive generous salary package
- Please apply by sending your CV to recruitment@e2egroup.co.uk
- By submitting your CV/application you are consenting to e2E Group using and storing information about you for monitoring purposes relating to your application of future employment. This information will only be used by e2E Group.

e2E Group is committed to achieving workforce diversity and welcome all applications irrespective of social and cultural background, age gender, disability, sexual orientation or religious belief.

