

## SATELLITE COMMS OPERATIONS AND VALIDATION ENGINEER



**COMPANY:** e2E SERVICES LTD.

**JOB REF:** RES.058

**TYPE OF ROLE:** PERMANENT

**LOCATION:** WELWYN GARDEN CITY, HERTFORDSHIRE & LONDON



### 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 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

Our team is involved in establishing, implementing and validating ground control and monitoring systems and remote operation of intelligent communications payloads on GEO, MEO and LEO satellites for both civil and military customers.

We are expanding our team and are seeking a **Satcom Operations Engineer** to support the ongoing payload operations procedure development and validation to ensure mission success on a number of programmes. This role will typically require developing an intimate understanding of the satellite payload architecture, developing operational procedures to control, configure and monitor the payload and subsequently perform validation of these operational procedures. The ideal candidate



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would also have a role in supporting the satellite payload ground segment system integration and validation campaign.

The candidate is expected to work closely with e2E's clients through the ground segment validation and operations validation/rehearsal exercises that will precede Spacecraft Launch.

### **Key Responsibilities**

- Identification of requirements for Satellite Payload Operation Procedures.
- Development of these Operational Procedures in document and proprietary script language form.
- Support to definition and development of Satellite Operations database in terms of parameters and calculations used by satellite operations procedures
- Validation of the operational procedure execution using payload and spacecraft simulation tools and infrastructure.
- Support to development and execution of overall test strategy, test plans, test cases and test procedures for satellite TT&C ground segment operation.
- Identifying and troubleshooting satellite ground segment and payload problems as well as operational procedure execution problems.
- Creating validation reports to document issues and assist development with the investigation and resolution of issues
- Review/comment on testability issues, obvious design flaws, anticipate data collection points and develop plans for as well as conduct anomaly tests and analysis as required

### **Skills, Character and Experience**

- Awareness of both commercial and technical issues
- Adaptable to new requirements and changing priorities
- Self-motivated and enthusiastic even under pressure
- Able to function and communicate effectively within a team and with other personnel
- Proven ability to work to deadlines and stay focussed on objectives
- Good document writing and presentation skills
- Willing to travel for up to one month nationally and internationally to support test execution or validation campaigns

### **Essential**

- Honours degree or equivalent in a relevant Engineering or Science discipline (e.g., Electronics / Communication Systems).
- Experience in developing operational procedures for remote control and monitoring of aerospace or communications platforms
- Experience in Operational Procedure Validation or Operational Readiness Testing
- Experience of planning test and validation campaigns, conducting tests, collecting and analysing data from tests, communicating results and anomalies to senior management and customers through both presentations and formal test reports
- Experience in the troubleshooting of Remote Monitoring and Control systems and IP interfaces as well as RF signal connection and protocol problems
- Knowledge and experience of using spacecraft/payload simulators in validation of systems.



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- Experience in development in automated procedure or automated test development environments and troubleshooting automated procedure issues.

### Desirable

- Knowledge and experience of satellite platform and intelligent comms payload design
- Experience of Spacecraft Platform and Payload Compatibility Tests with Operational Ground Segments
- Experience in system design or testing of Satellite Ground Segments
- Knowledge of In-Orbit Test Equipment and associated Test Campaigns
- Knowledge and experience of GEO and non-GEO spacecraft platforms
- Testing experience in a variety of environments/venues, (stand-alone/integrated testing, factory acceptance testing and operational networks)
- Experience of military satellite communications systems and associated security architecture
- Knowledge and experience of using test tools such as Wireshark and/or spacecraft/payload simulators.
- Experience in Software Defined Radio Networks and Satellite Communications Payloads

### **Salary**

- Attractive compensation package dependent on skills/experience.
- Growing list of Company benefits.
- 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.

