

Principal Consultant Satellite Communications (Military Satellite Communications)



COMPANY: e2E SERVICES LTD.
JOB REF: RES.043
TYPE OF ROLE: PERMANENT
CLIENT LOCATIONS: Welwyn Garden City



Our Company

e2E has been at the forefront of innovation in the space sector, specialising in satellite communications, for two decades, offering to all our world-wide stakeholders unrivalled expertise to design, develop and operate state-of-the-art solutions and systems. Our portfolio of consultancy 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 strive to improve – and the results consistently achieved over the years, at both personal and team levels, are outstanding and make e2E a great place to work.

Job Description

Our team is involved in supporting system design, system analysis, major bids, implementation, and testing of military satellite communications networks including satellites built to civil and military specifications. These networks can involve GEO, MEO and LEO satellites and include the use of existing commercial satellite systems to augment core military satellites constellations.

We are recruiting a Principal Consultant to strengthen our team. This role will typically be required to work with multiple customers on their projects in the field of military satellite communications.

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The candidate is expected to undertake tasks throughout the design life cycle and implementation cycle of the communications systems. Starting with initial studies and progressing through to supporting implementation of end-to-end communications services. Working closely with e2E's clients through their bid and implementation campaigns and will be responsible for undertaking multiple tasks.

e2E requires a candidate with an excellent understanding of a typical satellite project at both system and subsystem levels, incorporating space and ground segments, and a thorough knowledge of end-to-end communications service delivery, systems engineering knowledge and experience. The successful candidate is ideally expected to have acquired some areas of specialisms also and so will be expected to demonstrate experience of many - but not necessarily all - of the following skills, experience, and responsibilities.

Key Responsibilities

- Analyse customer requirements that involved complex technical aspects and trade off studies.
- Design, develop and prepare system designs for complex mobile and fixed satcom networks (GEO and non-GEO/LEO/CubeSats constellations) and their associated test environments.
- Ground segment engineering/terminal design, development and test.
- Perform Link Budgets and Capacity modelling.
- Lead meetings involving sub-contractors and/or customers.
- Review and provide commentary on existing customer analysis and documents.
- Delivering key work packages as part of a larger team.
- Identifying and troubleshooting system communication paths and capacity performance, as well as conducting post-test data analysis and reporting.

Skills, Character and Experience

Essential:

- Graduate with a good Honours or Masters degree in a relevant subject; equivalent qualifications and/or experience can be considered as an alternative.
- At least ten years' experience ideally gained via a global satcom network provider.
- Thorough understanding of satellite communications systems and associated engineering concepts; strong practical knowledge of systems engineering practices from requirements engineering through design/development and on to VV&T.
- Experience and knowledge of IP network design, protocols and security of data; experience of troubleshooting of network, RF signal connection and protocol problems, including identifying and solving problems and issues.
- Satellite Link Budgets and System Capacity Modelling.
- Experience in producing feasibility and trade-off studies.
- Strong analytical skills, the ability to identify key issues and to solve day-to-day challenges and issues and to report upon and present Key Performance Indicator and Service Level Agreement information.
- Experience of working as an integral part of a highly focused team; self-motivated and enthusiastic even when under pressure.
- Good customer-facing and communication skills with ability to produce and present clear,

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concise and unambiguous presentations to customers and other clients.

Desirable:

- Chartered Engineer or equivalent.
- Knowledge of ITIL style processes.
- Knowledge of INCOSE style system engineering within the Aerospace Industry.
- Project Management experience.
- Experience with ESA project and documentation processes and familiarisation with ECSS and other standards.
- Practical experience in the commissioning and testing of satellite systems (space and/or ground segment based) with a leading satellite network operator (GEO and/or non-GEO).
- Experience with network challenges associated with systems integration, including COTS (Commercial Off the Shelf) integration, capacity and performance analysis and system architecture design.
- Skills necessary to evaluate network hardware, software, algorithms and processes to verify and characterise network capability.
- Familiarity with OSS/BSS (Operations Support System / Business Support System) technologies and their use in management and reporting of communications networks.
- Experience in assessment/development of security architectures in a communication system and/or military communications networks.

Salary

- Attractive compensation package dependent on skills/experience plus a 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.

