

# SENIOR SATCOM COMMUNICATIONS PAYLOAD ENGINEER



**COMPANY:** e2E SERVICES LTD.

**JOB REF:** RES.019

**TYPE OF ROLE:** PERMANENT

**LOCATION:** WELWYN GARDEN CITY, HERTFORDSHIRE & CORSHAM, WILTSHIRE



## Our Company

e2E has remained at the forefront of innovation in the satellite communications industry for over two decades now. We offer our clients unrivalled expertise to design, develop and operate state-of-the-art solutions and systems, world-wide. Our portfolio of technical capabilities and technology know-how covers the entire spectrum of a satellite communication project, from market opportunity sizing and end-user requirements all the way through to ground network development, commissioning, and operations management. Our services are provided on both commercial and defence related programmes.

Innovation and ingenuity are the guiding principles of all we do for our customers. Working as part of e2E calls for a high level of dedication, personal motivation, commitment, and a driving instinct to continually look to improve. The results we have consistently achieved in terms of both personal development and team working is outstanding, making e2E the perfect environment to work and develop within.

## Job Description

Our dedicated team is involved in establishing the requirements for the UK's critical next generation of military satellite system. This involves the development of an open and flexible system architecture that brings together cutting-edge technology and innovation from both the defence and commercial sectors. Our team is applying industry best practice to create a responsive and agile satellite operations environment for users operating in the most challenging and hostile of environments. Our activities also appreciate the need to transition and transform incumbent systems and practises that have proved effective to date.

*Agility in Communications*

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We are now actively expanding this team to best prepare for the next stage of the Programme. As a result, we are seeking to add an experienced **Satcom Communications Payload Engineer** to support this Programme and to bring further understanding and experience of military satellite system design, manufacture and operations. Working very much as the coalface, the successful recruit will need to help the customer define the satellite system constellation and individual payload specifications, together with then assuring the satellite payload design and manufacture through the satellite manufacturing process.

## Key Responsibilities

- Working as part of a team to oversee and evaluate the design of the next generation satellite communications payload with experience particularly of working with UHF, X-band and Ka-band operations.
- Understanding of military specific functions including response to stress (RTS) handling, signal detection and jamming.
- Communications payload hardware and software with experience of Digital Signal Processing (DSP), FPGA firmware and embedded software.
- Liaising directly with the satellite manufacturers to oversee the payload configuration and ensure change management.
- Acting as the design authority for the communications payload subsystem serving as requirements manager and overall architecture manager.
- Responsible for reviewing the communications payload onboard and supporting ground systems.
- Responsible for evaluating performance including link budget and interference analysis  
Responsible for planning equipment reviews, conducting risk evaluation reviews of the major subsystem equipment and analysis related flight readiness test results.
- Coordinating with other satellite subsystem and ground support equipment managers.
- Preparing for and attending major project reviews throughout the engineering lifecycle.

## Skills, Character and Experience

- Proven record of having managed payload design, manufacture and assurance on major satellite communications projects during the design and development phases.
- Communication payload engineering experience.
- Management of third-party satellite manufacturers and tier 1 subsystem suppliers.
- Communications payload hardware equipment and onboard software.
- Some level of involvement in spacecraft security engineering.
- Appreciation of all Satcom elements including Space, Ground and User segments.

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- Onboard cryptographic equipment.
- Experience of developing system requirements and subsystem architectural design.
- Experience of space related testing including acceptance, integration and test.
- Experience of space related engineering standards, notably the ECSS standards as relevant to the spacecraft.
- Experience of radiation and hazard analysis of the payload subsystem.
- Ability to participate and work as an integral part of a highly skilled Satcom Systems Engineering team
- Proven ability to produce unambiguous but concise technical reports and operational procedures at the detailed level for reporting to Senior Management.
- Exemplary customer-facing presentational and communicational skills.

### **Essential Requirements:**

- Strong spacecraft engineering background.
- UK Security Cleared (or eligible to be SC cleared).
- >10 years of experience of working in the Satcom sector.
- >5 years of experience of working in satellite communications payload design and development that includes UHF, X-band and Ka-band operations.
- >5 years of experience in working with major satellite manufacturers, suppliers and equipment providers.
- Experience of satellite related negotiations.
- Collaborative team working and working at the boundary between organisations that are pursuing a common goal.
- Aerospace engineering (or equivalent) degree and Chartered Engineer.
- Ability to working under own initiative and across a dispersed and distributed team.

### **Desirable Requirements:**

- Experience in leading cross-cultural, international teams.
- Familiarity of MOD guidance (KiD) and the implementation of this guidance.
- Familiarity with defence programmes and engineering standards.
- Working knowledge of the CADMID acquisition life cycle model.
- Familiarity with MOD's Guide to Engineering Activities and Reviews (GEAR) Framework.

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## Remuneration Package

- Competitive salary dependent on skills/experience.
- Growing list of Company benefits (including 6% Company Pension Scheme contribution, Death in Service Benefit, Income Protection Insurance, membership of Health Care Cash Plan & EAP, Employee Share Option scheme, 25 days holiday per annum in addition to public/bank holidays).

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.

