

Software Systems Engineer



Goonhilly Cornwall,
Farnborough or Remote



Permanent, full time



Starting ASAP



Competitive Salary

ABOUT US

Goonhilly (Goonhilly Earth Station Ltd) enables the safe, sustainable, and secure use of space – keeping organisations connected and informed from Earth to the Moon and beyond.

As the world's first and most advanced commercial provider of lunar and deep space communications services, Goonhilly supports spacecraft operating beyond geostationary orbit for organisations including ESA and Intuitive Machines. Goonhilly also provides state-of-the-art RF Space Domain Awareness (SDA) and assured satcom services for national security organisations.

Its sister company, COMSAT, provides commercial satcom services, with both brands sharing operational sites in the US and UK. Both companies also offer secure and reliable data centre services.

Our company values are **TRUST**, **EXCELLENCE**, **COLLABORATION**, and **CURIOSITY**.

THE OPPORTUNITY

We are seeking a highly capable and versatile software engineer to join our team to support the delivery of complex technical and software development programmes. The successful candidate will contribute across the full project lifecycle from requirements definitions and system design through to implementation, optimisation, and on-going support.

KEY RESPONSIBILITIES INCLUDE

- Utilise systems engineering knowledge to lead architecture of software and technical projects of all sizes and complexities.
- Manage and coordinate interfaces between internal and external system components.
- Review, development, analysis, management, and verification of technical requirements, ensuring alignment with project and operational objectives.
- Establishment of development plans, lead best practice and harmonised approaches to software development, management, and documentation.
- Provide technical guidance, supervision and mentoring of junior developers/engineers in production of software and technical elements, ensuring quality outputs.
- Conduct and support reviews, troubleshooting, performance testing, vulnerability analysis and conduct remediation actions as required.
- Maintain coordination, supervision, and change/version control of technical assets across diverse projects.
- Identify and implement opportunities for additional business benefits of software systems to improve performance, reduce outages, enhance automation, accelerate processes, raise consistency, save resources, etc.
- Monitoring and reporting of activities and progress of projects at regular intervals to Project Managers and/or the Executive Team.

KEY SKILLS REQUIRED FOR THIS ROLE

Essential:

- Qualified to degree level in a relevant technical or engineering subject.
- A minimum of 5 years previous relatable experience.
- Thorough demonstratable knowledge and experience of systems engineering principles.
- Proven ability to work to product requirements and implement clear, consistent, documented, testable solutions within complex technical environments.
- Willingness to learn innovative technologies, while accepting that much of the space industry relies upon well-established methods.
- Familiarity working in Linux environments.
- Demonstratable knowledge of data communications and TCP/IP networking principles.
- Familiarity with some of: C, C++, Java, JavaScript/TypeScript, Python, Rust.
- Experience in providing effective technical leadership or mentoring.

- Excellent communication skills, with the ability to explain technical concepts clearly.
- The ability to find ways of solving or pre-empting problems.
- Highly organised, with the ability to manage multiple priorities and deadlines.

Desirable:

- Experience working in communications or space businesses on software development projects.
- Experience with Delay Tolerant Networking (e.g. CCSDS Bundle Protocol).
- Familiarity with CCSDS (Data Link Layer) standards.
- Experience in interface specification between software components and modules.
- Good competence in at least one common scripting or programming language.
- Experience with Software Defined Radio and RF Digital Signal Processing.
- Experience with control systems, industrial automation or similar.
- Knowledge of contemporary software development practices including change and version control, unit testing, formal specifications, security considerations.
- Experience working with data visualisation and analysis tools.
- Familiarity with RF systems design and/or ground station operations.

WHAT YOU CAN EXPECT FROM US

- Competitive Salary
- Holiday - 25 days plus bank holidays
- Life Assurance
- Private Medical Cover
- Private Dental Cover
- Company Pension Scheme
- Enhanced Family Friendly Cover

We are an equal opportunities employer and are committed to ensuring that our workplace and employment practices are free from discrimination, harassment, or victimisation on the grounds of race, gender, married or civil partner status, pregnancy and maternity, sexual

orientation, trans status, disability, religion or belief, and age. We encourage applicants from a wide range of background and with different identities and experiences to apply for roles with Goonhilly.

HOW TO APPLY

Please send your CV to recruitment@goonhilly.org. When submitting, please tell us how your knowledge, experience, skills, and abilities meet the requirements for our role.

Application closing date: 5th July 2026. Please note that we do not expect to contact applicants until after this date.

Positions at Goonhilly are subject to pre-employment checks.