



Talent driven
culture.

Senior Flight Operations Engineer

Ref.ª T20266

Our client is a space systems engineering company, delivering advanced design solutions and turn-key space SW systems. Building on a solid team of highly motivated and specialised engineers, it is now a reference player in the European space sector, leading in the areas of Mission Analysis, Guidance, Navigation and Control, Global Navigation Satellite Systems Technologies, Ground Segment Systems and Earth Observation applications.

Location: Coimbra (Portugal)

Main Accountabilities:

- General tasks:
 - Leadership of the operation of the system.
 - With support from Platform Systems Engineering and Ground segment engineering.
 - Operational Planning and Procedure Development
 - Develop and validate nominal and contingency procedures for spacecraft operations.
 - Define operational timelines and command sequences.
 - Mission Monitoring and Control
 - Monitor spacecraft telemetry and performance in real time.
 - Execute command plans and validate their successful implementation.
 - Anomaly Detection and Resolution
 - Identify, analyze, and support the resolution of anomalies in spacecraft behavior.
 - Work with subsystem experts and flight dynamics teams during troubleshooting.
 - Ground Segment Coordination
 - Interface with ground stations, mission control centers, and flight dynamics.
 - Ensure smooth data flow and command uplink/downlink operations.
 - Testing and Validation
 - Support system validation through simulations and rehearsals (e.g., Launch & Early Orbit Phase – LEOP).
 - Test procedures in operational simulators and testbeds.
 - Documentation and Training

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- Coordination of operation manuals and flight plans of the system (platform, payload and ground segment). It includes LEOP, commissioning, and nominal trades.
- Support to Launch and Commissioning Phases
 - Participate in LEOP and spacecraft commissioning activities.
 - Adapt procedures based on in-flight performance.
- Specific tasks:
 - Establish the operational concept and operational requirements for the spacecraft avionics and its subsystems including redundancy management strategy.
 - Perform PUS tailoring within core avionics needs.
 - Establish the SOP master list and follow up on its development and validation.
 - Prepare nominal and contingency scenarios and their respective procedures.
 - Interface with Ground Segment and MCS - evaluation and deployment of offline evaluation tools.
 - Define HK packet definition, FDIR monitoring strategy and recovery procedures.
 - Support mission phase definition.
 - Prepare Avionics Flight Operations User Manual.

Requirements & Qualifications:

Education:

- Preferred: A recognized engineering or master's degree (Mechanical, Aerospace, Electrical, Electronic) or a related degree (e.g., Physics, Maths).

Professional Experience:

- Required: Minimum 5 years in Project Management (preferably in Space industry or high-tech environments).

Technical Requirements:

- Required:
 - Familiar with V&V campaigns with Earth Observation satellites and/or launchers.
 - Practical experience in aerospace sector especially on Functional avionics (experience in ESA/European programmes is welcome)
 - Capacity to understand new concepts and apply them to engineering problems
 - Familiar with phase D/E of Satellite Production, and launch test campaign
 - Familiar with PUS concept and to work under ECSS schemes.
 - Familiar with EGSE and test environments in C/D satellite project phases.

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- Experience in satellite operations, mission planning, and scheduling;
- Consolidated programming skills in Python, MATLAB, or C++;
- Familiarity with Mission Control Software (e.g., SCOS-2000, MOIS, OpenMCT);
- Strong analytical skills to process and interpret satellite telemetry data;
- Hands-on experience with automation tools and scripting for mission operations;
- Ability to work in a team and adapt to dynamic and fast-growing environments;
- Knowledge of industry standards and best practices for flight operations;
- Excellent problem-solving skills, critical thinking, and creativity to tackle technical challenges.

Languages skills:

- English (C1 level as minimum), spoken and written.
- Fluent Spanish, Italian or Portuguese is a plus.

Offer:

- Wage package appropriate to the demonstrated knowledge and experience.
- Career development opportunity.
- Contractual link established directly with our client's company.
- Work in highly innovative projects with ESA (European Space Agency).

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