

MCOS Engineering & IV&V, System Engineer

Description

We are looking for an experienced **Mission Control and Operations System Engineer** to support **EUMETSAT's Copernicus Mission Development (CMD) Division**. The service is performed primarily on-site at EUMETSAT headquarters in Darmstadt.

Responsibilities

The Candidate will support engineering, integration, verification and validation (IV&V) activities for the Mission Control and Operations Sub-Segment (MCOS) of the next-generation Copernicus Earth Observation missions — **CO2M, CRISTAL/CIMR and Sentinel-3 Next Generation Optical (S3-NGO)** — throughout their development and IV&V lifecycle, up to and including System Commissioning.

Specific responsibilities include:

- Contributing to requirements engineering for MCOS at System, Ground Segment and GS Element level, including definition, derivation, traceability and formalisation of requirement baselines (e.g. via DOORS).
- Supporting system and interface design activities for MCOS components; Mission Control Subsystem (MCS), Flight Dynamics Subsystem (FDS), Mission Planning Subsystem (MPS), Operations Preparation Tools (OPSPREP) and Satellite Simulator (SIMSAT), including design documentation, ICDs and trade-off studies.
- Preparing test specifications, test procedures and test reports, and contributing to the planning and execution of integration, verification and validation (IV&V) campaigns at System, Ground Segment and GS Element level.
- Supporting software and hardware configuration deployment, patch/release verification, and anomaly processing (ARBs/CRBs participation).
- Preparing and maintaining Verification Control Documents (VCDs) and supporting Verification Control Boards (VCBs), Test Readiness Reviews (TRRs) and Test Review Boards (TRBs).
- Contributing to major project reviews (SRR, PDR, CDR, IVVR, ORR, Commissioning Review) by reviewing documentation, raising RIDs, and following up resulting actions.
- Supporting rehearsals, launch preparation, satellite commissioning and system commissioning activities.
- Contributing to Model-Based Systems Engineering (MBSE) activities for MCOS, where applicable.
- Interfacing with the Mission Operations Team to consolidate operational concepts for Mission Control Applications, and following the development of applications delivered by internal and external contractors.
- Supporting the evolution and documentation of interfaces between MCOS and other Ground Segment elements (MDPS, MMEs, ESA FOS/MDAS).

Qualifications

Mandatory Requirements

Hiring organization

WGS Workgroup Solutions GmbH

Employment Type

Full-time

Job Location

Darmstadt

Date posted

August 24, 2026

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- Excellent spoken and written English, with ability to prepare clear, accurate and consistent technical documentation.
- Minimum 2 years of experience in Mission Control Engineering / Spacecraft Monitoring & Control applications (requirements, architectural design and/or implementation), combined with at least 3 years of demonstrated experience in Systems Engineering and IV&V, including the IV&V of Satellite Mission Control Systems, at System and/or Ground Segment level for Earth Observation missions, including generation of test specifications, test procedures and test reports.
- Knowledge and working experience of space-related engineering standards and lifecycles (ECSS, CCSDS) concerning space-to-ground interfaces applicable to Satellite Mission Control Systems (e.g. ECSS Packet Utilisation Standard – PUS, CCSDS Space Packet Protocol – SPP, CCSDS Space Link Extension – SLE).
- Experience in requirements engineering and requirements traceability, using dedicated tools (e.g. IBM DOORS or equivalent).
- Experience supporting engineering reviews (SRR, PDR, CDR or equivalent) and formal testing (FAT/OSAT), including preparation of test procedures, TRRs/TRBs.
- Experience in preparation and maintenance of Verification Control Documents (VCDs) and formal verification control processes, including Verification Control Boards (VCBs).
- Experience in interface management and definition, including preparation and management of Interface Control Documents (ICDs).
- Demonstrated experience with Linux operating systems.
- University degree in a relevant engineering discipline.

Nice to have

- Experience customising Spacecraft Monitoring & Control applications based on the MICONYS® software suite (ESA/ESOC), particularly in telemetry, commanding and archive components.
- Knowledge of the Mission Control System's interfaces with Mission Planning Systems and Flight Dynamics Systems, and of spacecraft/ground segment operations.
- Experience with test tools for Spacecraft Monitoring & Control Systems (e.g. satellite simulators such as SIMSAT).
- Use of modelling and design languages for System Engineering (e.g. SysML) and supporting tools (e.g. Enterprise Architect).
- Experience with automated testing (e.g. Jenkins, Selenium, Robot Framework), CI/CD pipelines (GitLab CI/CD, Jenkins, Docker), and test management tools such as Jira Xray (test planning, execution and reporting).
- Knowledge of CCSDS File Delivery Protocol (CFDP) and the wider CCSDS standards stack.
- Knowledge of mission product Quality Control, Calibration and Validation.
- Knowledge of IT/ground segment technologies: relational databases, virtualisation, containerisation, networking, SW deployment tools.
- Experience supporting Copernicus, Sentinel

Job Benefits

- **Competitive compensation** :Attractive salary package including benefits such as sponsorships to social and sport activities, Deutschland ticket or Edenred card,first brands' employee discounts, and more.
- **Work-life balance**
- **Learning & development**

- **Strong team spirit:** A supportive and collaborative culture with team events and social activities

Contacts

Interested applicants should submit their CV and Cover Letter in Europass format, either through the website or by emailing the WGS human resources team at **vacancies@workgroup-solutions.com**

Please submit your application **before 07/09/2026**.