VN 22/20 Spacecraft Simulator Software Engineer

Within the Mission Control Applications and Tools Competence Area (MCAT CA) of the Generic Systems and Infrastructure Division (GSI), the Spacecraft Simulator Software Engineer is responsible for the engineering and maintenance of Mission Control Applications and related Tools within the **EUMETSAT** ground systems, for missions operated by EUMETSAT, in support to both Operations & Services to Users (OPS) and Programme Preparation & Development (PRD) departments.

The Spacecraft Simulator Software Engineer participates in the ground segment mission control functions design, development, maintenance and IV&V (Integration, Verification and Validation) activities and provides operations support in associated areas.

The Spacecraft Simulator Software Engineer contributes to knowledge management within the Generic Systems and Infrastructure (GSI) Division in the area of mission control systems and related technology/products, ensuring current technical expertise and competences are employed.

This position supports the **Copernicus Programme**.

Duties

- Manage maintenance activities of spacecraft simulators and operation preparation tools, in support to flight operations preparation of operational missions;
- Interface with end-users (Flight Control Team) of spacecraft simulators for anomaly investigation, definition of corrective and evolving activities and mid-term planning of maintenance tasks and deliveries production;
- Manage maintenance and service contracts with industry, including the
- Support the definition, development and testing of new spacecraft simulators and operations preparation tools within the development of ground segments for new missions;
- Ensure the development and maintenance of the technical knowledge and skill-base within the competence area;
- Support the definition, development and adoption of generic, innovative and cost-efficient technical

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LOCATION
Darmstadt, Germany

QUALIFICATIONS
University degree in a relevant discipline.

LANGUAGES
The official languages of EUMETSAT are English and French. Candidates must be able to work effectively in English and have some knowledge of French.

DEADLINE
30 August 2022

monitoring and control of contractors' performance against agreed Service Level Agreements and other contractual conditions; solutions for future evolutions of the systems under her/his responsibilities.

Skills and Experience

- Development and maintenance of Spacecraft Simulators and Operation Preparation Tools (e.g. TM/TC database and flight operations procedure tools);
- Sound knowledge and experience using different software development methodologies and practices (e.g. waterfall, agile,) and lifecycles with formal production and maintenance of technical documentation such as: Software Requirements Specifications (SRS), Architectural Design Documents (ADD), Interface Control Document and Test Plans;
- Experience of maintaining large scale software systems in an operational environment, preferably related to high-availability (24 h/day) applications;
- Innovative mindset and proposed approach toward adoption of new technologies and engineering solution;
- Good interpersonal and communication skills, combined with a proven ability to apply these collaboratively within and across teams;
- Knowledge and demonstrated experience in:
  - Integration, testing and acceptance of complex software applications;
  - Software design methodologies (e.g. OOA/OOD), design languages (i.e. UML) and CASE tools;
  - Relevant experience with different programming language e.g. C++, Java, Python, JavaScript, Groovy.
  - Ability to make use of open source solutions and technologies to address engineering challenges efficiently;
  - DevOps and Continuous Integration and Continuous Development engineering frameworks with their instantiation and configuration;
  - CCSDS and ECSS standards relevant to the Space Mission Control domain;
  - ESA/ESOC SIMULUS Spacecraft Simulator suite;
  - ESA/ESOC DABYS TM/TC Database Management product.
- The knowledge of one or more of the following domains/systems is considered an advantage:
  - ESA/ESOC MICONYS Mission Control System suite.

Employment Conditions

The initial contract will be of 4 years' duration, with subsequent 5 year contracts being awarded thereafter, subject to individual performance and organisation requirements. There is no limit to the amount of follow-up contracts a staff member can receive up to the EUMETSAT retirement age of 63 and there are certainly opportunities to establish a long career perspective at EUMETSAT.

This post is graded A2/A4 on the EUMETSAT salary scales. The minimum basic salary for this

post is EURO 5,363 per month (net of internal tax but excluding pension contribution and insurances) which may be negotiable on the basis of skills and experience. The salary scale provides for increments on the anniversary of taking up employment, and scales are reviewed by the EUMETSAT Council with effect from 1 January each year. In addition to basic salary, EUMETSAT offers attractive benefits. Further information, including salary details, is available on the EUMETSAT web site.

EUMETSAT is committed to providing an equal opportunities work environment for men and women.
Please note that only nationals of EUMETSAT Member States may apply. The EUMETSAT Convention requires that Staff shall be recruited on the basis of their qualifications, account being taken of the international character of EUMETSAT.

About EUMETSAT

EUMETSAT is Europe's meteorological satellite agency. Its role is to establish and operate meteorological satellites to monitor the weather and climate from space - 24 hours a day, 365 days a year. This information is supplied to the National Meteorological Services of the organisation's Member States in Europe, as well as other users worldwide.

EUMETSAT also operates several Copernicus missions on behalf of the European Union and provide data services to the Copernicus marine and atmospheric services and their users.

As an intergovernmental European Organisation, EUMETSAT has 30 Member States (Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, The Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.)

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