

## Data Systems Engineer

**Job Req ID:** 14716

**Closing Date:** 04 March 2022

**Publication:** Internal & External

**Vacancy Type:** Permanent

**Date Posted:** 04 February 2022

Vacancy in the Directorate of Operations.

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. We therefore welcome applications from a qualified candidates irrespective of gender, sexual orientation, ethnicity, beliefs, age, disability or other characteristics. Applications from women are encouraged.

This post is classified A2-A4 on the Coordinated Organisations' salary scale.

### Location

ESOC, Darmstadt, Germany

### Description

Data System Manager in the Data Systems Infrastructure Section of the Mission Operations Data Systems Division, Ground Systems Engineering and Innovation Department, Directorate of Operations.

The Mission Operations Data Systems Division is responsible for the definitive implementation, acceptance, and maintenance of operational data systems. This includes but is not limited to:

- mission data systems (e.g. mission control systems, mission planning systems, operational simulators);
- infrastructure data systems (SIMULUS, MICONYS, EGOS-CC, Generic Application and Software Development Environment);
- multi mission data systems and services provided to missions;
- custom developments and application-specific data systems (for Space Safety programme or robotic missions).

### Duties

You will report to the Head of the Data Systems Infrastructure Section.

During your initial assignment you can expect to be responsible for several of the following:

- Supporting transfer to operations of new generation Mission Control System infrastructure, EGOS-CC, including its maintenance and sustaining;
- Supporting transfer to operations of new generation simulator infrastructure, SIMULUS NG, including its maintenance and sustaining;
- Developing new systems to support automation and offline operations;
- Developing new systems exploiting artificial intelligence;
- Developing new systems exploiting Model-Based System Engineering;
- Supporting actively the transition of ESOC Infrastructure Data Systems to the European Community License.

- Specifying the software requirements of these systems in collaboration with operational users;
- Defining and specifying their internal and external interfaces in agreement with relevant parties;
- Preparing and supervising the industrial procurement contracts for design implementation and maintenance of these systems;
- Acceptance of the deliverables received from industry, ensuring that they are correct, complete and comply with the relevant requirements;
- Providing support for mission operations staff as required in the various operational phases, including System Validation Tests, simulation campaigns and in software coordination as part of the Mission Control Team during critical operational phases such as launches;
- Coordinating with other internal (i.e. within ESOC) or external units, e.g. with the user, supplying the necessary hardware, networks and related services;
- Contributing to the establishment of standards in the area of operations data systems and software engineering;
- Participating in research and development activities in the area of operations data systems.

### **Technical competencies**

Experience in the development of complex data systems software

Ability to understand user needs in complex software systems

Experience in Software engineering methods and tools used in development of data processing systems

Experience in the management of software projects

State-of-the-art knowledge in modern IT trends and key strategic innovation areas

Familiarity with systems similar to those belonging to the ESOC control centre infrastructure

### **Behavioural competencies**

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

### **Education**

A Master's degree in engineering or informatics is required for this post.

### **Additional requirements**

You should have at least two years of proven professional experience in the development of complex data systems software as well as experience in understanding user needs when defining complex software systems and in modern software engineering techniques used in developing data processing systems. You should also have experience of software project management. A service-oriented attitude towards end users/operation customers is essential, as is the ability to work constructively with suppliers (for example external software suppliers or ICT infrastructure suppliers). Familiarity with systems similar to those belonging to the ESOC control centre infrastructure is desirable. In particular, proven experience in software infrastructure for ESOC simulators and/or in EGOS-CC would be considered an asset.

### **Other information**

The working languages of the Agency are English and French. A good knowledge of one of these is required. Knowledge of another Member State language would be an asset.

The Agency may require applicants to undergo selection tests.

At the Agency we value diversity and we welcome people with disabilities. Whenever possible, we seek to accommodate individuals with disabilities by providing the necessary support at the workplace. The Human Resources Department can also provide assistance during the recruitment process. If you would like to discuss this further please contact us email [contact.human.resources@esa.int](mailto:contact.human.resources@esa.int).

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Please note that applications are only considered from nationals of one of the following States: Austria, Belgium, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, the United Kingdom and Canada, Latvia, Lithuania and Slovenia.

According to the ESA Convention, the recruitment of staff must take into account an adequate distribution of posts among nationals of the ESA Member States\*. When short-listing for an interview, priority will first be given to internal candidates and secondly to external candidates from under-represented or balanced Member States\*. (<https://esamultimedia.esa.int/docs/careers/NationalityTargets.pdf>)

In accordance with the European Space Agency's security procedures and as part of the selection process, successful candidates will be required to undergo basic screening before appointment.

Recruitment will normally be at the first grade in the band (A2); however, if the candidate selected has little or no experience, the position may be filled at A1 level.

\*Member States, Associate Members or Cooperating States.

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