Job Title: Software & Operations Engineer

Req ID **7001** - Posted **02/08/2018**

EUROPEAN SPACE AGENCY

Vacancy in the Directorate of Technology, Engineering and Quality.

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. Applications from women are encouraged.

Post
Software & Operations Engineer

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

Location
ESTEC, Noordwijk, The Netherlands

Description
Software & Operations Engineer in the Flight Software Systems Section, Software Systems Division, Systems Department, Directorate of Technology, Engineering and Quality.

The postholder will be assigned as **integrated support** in the function of **Software and Operations Engineer** reporting to the Spacecraft Engineering Manager of the Euclid Project within the Science Directorate.

Euclid is the second medium size mission of the Cosmic Vision Science Programme of the Agency and is devoted to map the dark Universe through the combination of imaging and spectroscopic galaxy surveys.
This includes responsibility for all on-board software for both platform and instruments, as well as the development of the ground segment software.

Training and familiarisation with the parent Department's mandate, processes and procedures will be provided at the start of this assignment.

Duties
Specific responsibilities include:
- Supervising the specification, design, procurement and development of all software on-board the spacecraft.
- Monitoring, in coordination with the Payload & Mission Manager, the development of the instrument software to ensure adherence to programmatic commitments, quality and compatibility with the rest of the space segment.
- Coordination and supervision of the mission and science operations centres development, including early operations definitions.
- Monitoring, in coordination with the Payload & Mission Manager, the development of the instrument consortum science ground segment to ensure adherence to programmatic commitments, quality and compatibility with the rest of the ground segment.
- Supervising the relevant procurements throughout their lifetime, with participation in relevant ITTs and reviews.
- Ensuring, in cooperation with the Euclid Project team, all on-board software compliance with technical and performance requirements and overall mission requirements.
- Monitoring the relevant procurement's schedule and risks as well as the maintenance of the relevant up-to-date technical budgets.
- Supporting the in-orbit commissioning of subsystems under his responsibility.

- Participating in other Project and Project Department tasks benefitting from the postholder's experience.

Technology:

- Participating in periodic meetings with the parent Division and contributing to the transfer of technical knowledge and lessons learned across the Agency.
- Contribute to the identification of relevant research topics in the field of competence for the parent Division

Technical competencies

A good understanding of modern software engineering methods and tools, R&D trends and the industrial landscape
Experience in real-time embedded software
Knowledge of all phases of the software development lifecycle
Knowledge of spacecraft systems and engineering processes
Experience in the management and monitoring of industrial activities, including participation in reviews
Experience of space engineering standards
CFDP knowledge is an asset

Behavioural competencies

Communication
Teamwork
Problem Solving
Results Orientation
Planning & Organisation
Continuous Learning

Education

Applicants should have a Master's degree or equivalent qualification in computer science and/or electrical engineering.

Additional requirements

- extensive knowledge of modern software engineering and practical expeirence in spacecaft sofware engineering.
- Ability to manage several activities and keep system engineering control of the entire spacecraft software ecosystem
- Experience with space engineering standards including telecommand and telemetry services and their implementation, temwork skills, including contiruting to team efficiency/effectiveness.
- Strong problem-solving skills, to deal with day-to-day operational challenges

Other information

For behavioural competencies expected from ESA staff in general, please refer to the ESA Competency Framework.

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.

The closing date for applications is 30 August 2018.

If you require support with your application due to a disability, please email contact.human.resources@esa.int.

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 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 Member States. (http://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.