

EUROPEAN SPACE AGENCY

Gateway ESPRIT System & AIV engineer

Job Req ID: 15102

Closing Date: 28 April 2022

Publication: Internal & External

Vacancy Type: Permanent

Date Posted: 30 March 2022

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. We therefore welcome applications from all 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

ESTEC, Noordwijk, Netherlands

Description

The ESPRIT (European System Providing Refuelling, Infrastructure and Telecommunication) is one of the two European contributions to the Gateway partnership. The Gateway will be an outpost orbiting the Moon that provides vital support for a sustainable, long-term human return to the lunar surface, as well as a staging point for deep space exploration.

ESPRIT will provide the refuelling capability, stowage, cargo, windows and the main system for the communication with the lunar surface activities. The communication system, called HLCS, will be accommodated on US HALO element and launched together in 2024 to support the first lunar landing. The ESPRIT refuelling and cargo module (ERM) will provide active refuelling of Xenon and bi-prop to the propulsion system of Gateway, a set of windows, docking port and cargo bay element. ERM will be launched separately in 2027.

As Gateway ESPRIT AIV Engineer you will be assigned as integrated support from the Ground SW System & Functional Verification Section to the ESPRIT AIV and System Team, with direct reporting to its team leader .

You will be delegated the successful planning, execution and control of the Industrial test and verification program and of the joint verification with NASA Gateway program.

Within the domain of responsibility you will be responsible for preparatory work to meet the timely availability of the information and technical background work to the regular Gateway meetings with NASA. Technical and planning work will be done in collaboration with the two project technical Team Leaders and with industry. You will also support ESA management in the Gateway program board for the related agreements.

Duties

Your responsibilities will include:

- following up the industrial preparation, implementation and execution of the verification campaigns;
- defining, agreeing, preparing and performing, in conjunction with Industry, the Gateway integration and verification joint campaigns for both HLCS and RM at NASA for ESA;
- Organising ESA's participation in both the industrial and NASA joint verification, ensuring that those campaigns are conducted as efficiently and effectively as possible;
- participating in Gateway working groups and technical meetings related to your areas of responsibility, acting as project representative;
- helping to prepare project documentation in your area of expertise;
- working together with the engineering teams, you will also agree the level of verification with industry and the closure of requirements verification, including coordination of the required VCB;
- ensuring project level verification evidence is suitable in order to ensure project commitment towards the NASA Gateway;
- taking responsibility for the control and provision of the requirements' verification evidence as well as its maintenance in the ESA DOORs system;

While performing these tasks, you will be responsible for identifying and coordinating the engineering support provided by D/TEC by:

- defining and communicating clear tasks and objectives;
- promoting an effective work environment by encouraging cooperation and collaboration within the team and with the various project interfaces;
- participating in periodic meetings with the parent Division, contributing to the transfer of technical knowledge and lessons learned across the Agency.

Technical competencies

ESA space systems development, verification and review processes and standards
Satellite verification engineering
Experience in technical reviews
Experience of space engineering standards
Experience of space systems issues

Behavioural competencies

Result Orientation
Operational Efficiency
Fostering Cooperation
Relationship Management
Continuous Improvement
Forward Thinking

Education

A Master's degree in engineering is required.

Additional requirements

- A number of years' relevant experience in space mission preparation and/or development;
- Experience of working in projects in collaboration with NASA and knowledge of NASA working practices would be an asset;
- You should have good interpersonal skills and be able to interact autonomously with several interfaces and able to ensure a continued and effective coordination with other teams (internal and external to ESA);
- You should have experience of working in a team or project environment;

- You should have strong problem-solving skills to deal with day-to-day operational challenges, together with demonstrated planning and organisational skills;
- You should have a strong results orientation and be able to set priorities and present practical solutions both orally and in writing;
- You will be expected to contribute to a dynamic and creative environment in the implementation phases of the ESPRIT project.

Other information

For behavioural competencies expected from ESA staff in general, please refer to the [ESA Competency Framework](#).

For further information please visit: [Professionals](#), [What we offer](#) and [FAQ](#)

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.

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 conducted by an external background screening service.

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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