

Job Title: Launch System Engineer

Req ID 10605 - Posted 23/09/2020



EUROPEAN SPACE AGENCY

Vacancy in the Directorate of Space Transportation.

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 Launch System Engineer

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

Location
ESA Headquarters, Paris, France

Description
Launch System Engineer in the Ariane 6 Engineering team, Flight Programme's Department, Directorate of Space Transportation.

- Duties**
- The post is under the hierarchical responsibility of the Ariane 6 Engineering Integrated Project Team (IPT) Manager. You will be integrated in the Ariane 6 Engineering team under the supervision of the ESA Ariane 6 Chief Engineer. Your responsibilities will encompass:
- launch system analyses, and requirement specification, definition and verification, with particular emphasis on elements concerned with cryogenic ground connections and on-ground and in-flight P/L environmental conditions;
 - implementation of the activities necessary to qualify the Ariane 6 cryogenic connection systems disconnected at lift-off, dubbed Cryogenic Connection Systems (CCS); this implies ensuring transverse and system coherence between mechanical, fluidic, electrical and command and control elements;
 - procurement of system tests executed in either Europe or French Guiana prior to Combined Tests, including their identification, specification and exploitation; supervision of test campaign execution on site;
 - support for Upper Composite engineering activities and operation analyses, including control of performance of relevant facilities and tools;
 - identification of launch system definition improvements/corrections and analyses of launch system configuration changes required by others;
 - support to Project Manager for schedule analysis and monitoring, risk identification and mitigation, and cost-effective implementation of the necessary procurements;
 - contribution to the preparation and execution of Ariane 6 launch system combined tests and maiden flight campaign;
 - contribution to definition of the quality control procedures to be implemented for Ariane 6 Transition Phase and Stabilised Phase exploitation;
 - support with resolving any reservations concerning the Launch System Qualification raised at the beginning of the Ariane 6 Exploitation Phase;
 - preparation of and support for the execution of launch system reviews;
 - coordination of specialised technical assistance by the Directorate of Technology, Engineering and Quality Management (D/TEC), the CNES Launcher Directorate and industry partners in the appropriate areas of competence.

The job description will be revised after the Ariane 6 maiden flight.

Technical competencies

- Multi-disciplinary knowledge of area of responsibility
- Knowledge of industrial costs and schedule aspects
- Knowledge of other technical domains with interfaces to own area of responsibility
- Space system development and PA standards
- Complex project risk management processes
- Knowledge of ESA and industrial development, verification and procurement processes
- Preparation and execution of test and launch campaigns
- On ground and in-flight environmental effects
- Lean, model-based processes analysis techniques

Behavioural competencies

- Communication
- Planning & Organisation

Problem Solving
Responsible Decision-Making
Results Orientation
Teamwork

Education

You should have a Master's degree in space engineering.

Additional requirements

You should have 12 or more years' experience in the development or operations of launch systems or other systems of equivalent complexity. In-depth knowledge of launch systems, with a background in space system engineering, thermo-mechanics and dynamics, is essential.

You are expected to be familiar with design-to-cost practice, and have planning and organisational skills and the ability to work effectively in a team environment. You must be self-motivated and disciplined, have integrity and possess good communication skills.

Competence in lean process analysis and value stream mapping methodologies, as well as experience of working in industry, is an advantage.

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 21 October 2020.

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, Latvia 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.