

## Senior Solid Propulsion Engineer

**Job Req ID:** 12604

**Closing Date:** 29 June 2021

**Publication:** Internal & External

**Vacancy Type:** Fixed-Term

**Date Posted:** 15 June 2021

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. For this purpose, we 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 for a limited duration of four years (non-renewable) and is classified A2-A4 on the Coordinated Organisations' salary scale.

### Location

ESA Headquarters, Paris, France

### Description

Senior Solid Propulsion Engineer in the P120C Programme (STS-PP), Flight Programmes, Directorate of Space Transportation.

Under the direct authority of the P120C Programme Manager, you will be responsible for implementing the P120C programme activities described below, in the area of solid rocket propulsion

### Duties

You will be responsible for the following duties in particular:

- Following up the technical activities in the area of Solid Rocket Propulsion, and notably by: supervising the completion of P120C SRM development and qualification, ensuring, as regards P120C, coordination with development activities carried out for the launcher systems, in particular for Ariane 6; verifying that P120C Full Operational Capability (FOC) has been achieved; as well as monitoring and technical assessment of independent verifications;
- Supporting the identification of P120C competitiveness improvements to reduce recurring cost and increase motor performance, and monitoring their implementation; overseeing future studies on potential evolutions of P120C or other solid propulsion elements;
- Providing technical support to Vega and Vega C in the area of solid propulsion under the responsibility of the Vega programmes;
- Supporting activities in the area of Solid Rocket Propulsion (P120C) in the context of the Vega C and Ariane 6 Exploitation Programmes, in coordination with the relevant STS exploitation teams. In particular, you will monitor P120C manufacturing and acceptance, provide technical guidance for the treatment of anomalies/non-conformances, assess requests for waivers/deviations, assess evolutions of the definition of P120C SRM (ECP) and their possible impacts on launcher system qualification status, and support the technical activities related to Solid Propulsion within the LEAP programme, such as flight data exploitation, treatment of components/materials obsolescence;
- Managing the implementation of possible adaptations of the firing test bench (BEAP) required for P120C static firing tests, including the finalisation of BEAP Interface Specifications, the definition of the P120C test article configuration, including

stage/system aspects in coordination with the Vega C and Ariane 6 teams, monitoring of the necessary test bench adaptation work and overall planning of activities;

- Acting as ESA focal point for P120C SRM test campaigns, in direct cooperation with CNES and industry, including defining the organisation of test campaigns, the monitoring of test specifications and test plans, the monitoring of the safety file submission process in coordination with the ESA Space Transportation Quality Management Office, the monitoring of test campaign execution in French Guiana (including CVI, level 0 and level 1 analysis);
- Following up the completion of development and qualification of the P120C TVC/TVAS and its various subsystems, in coordination with the relevant launcher system teams, including participation in progress meetings with industry;
- Contributing to P120C risk identification and assessment, including mitigation actions;
- Supporting the Programme Manager in preparing reports to D/STS and PB-LAU;
- Cooperating on day-to-day activities with the CNES Assistant Maitrise d'Ouvrage in line with agreements currently in force, in particular as regards carrying out relevant cross checks and independent technical analysis.

### **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

Knowledge of ESA and industrial development, verification and procurement processes

ESA Space systems development, verification and review processes and standards

### **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**

You should have at least 10 years' work experience on large-scale development programmes.

Strong technical expertise in solid rocket propulsion and in launcher system technical domains is required. A good knowledge of the European launcher sector would be an asset.

Demonstrated capability to interact with industry.

Strong analytical skills, aptitude for planning, results-orientation, team working and good inter-personal skills are essential.

### **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.

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 at [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 Member States. (<https://esamultimedia.esa.int/docs/careers/NationalityTargets.pdf>)

In view of the limited duration of this post, internal candidates are strongly advised to contact their HR advisor before applying.

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.