

Job Title: VEGA/P120C Senior Solid Propulsion Engineer

Req ID 7161 - Posted 28/06/2018



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

VEGA/P120C Senior Solid Propulsion Engineer

This post is for a limited duration of 4 years, non-renewable, and is classified A2-A4 on the Coordinated Organisations' salary scale.

Location

ESRIN, Frascati, Italy

Description

Vega/P120C Senior Solid Propulsion Engineer in the P120C Project, Development Programmes Department, Directorate of Space Transportation. Under the direct authority of the P120C Project Manager, the postholder implements the following P120C Project activities. In addition, functionally reporting to the Vega Launcher Stages Engineering Manager, the postholder supports the Vega IPT and implements the following Vega C-related solid propulsion and pyrotechnics activities.

Duties

P120C-related activities:

- Ensuring coordination between development activities carried out for the P120C booster and the Vega C launcher system, being the focal point for all P120C matters impacting the launcher system and vice versa;
- Following up implementation of changes to existing production facilities, in French Guiana and Europe, necessary for P120C solid rocket motor (SRM) development and qualification, and development of new facilities to deliver P120C production at the nominal rate during the Ariane 6 and Vega C Exploitation phases;
- Following up Fardiens 250t activities, including adaptations of the existing trailer and development of a new one;
- Interfacing with industry for implementation of Project activities;
- Contributing to P120C risk identification and assessment, including mitigation actions;
- Supporting the Project 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 in force, in particular for carrying out relevant cross-checks and independent technical analysis.

Vega C-related activities:

- Managing the solid rocket propulsion (P120C, Z40 & Z9 SRM) and pyrotechnics technical activities required for ensuring timely achievement of all key Vega Development Programme milestones, these activities encompassing:
 - Supervising development and qualification of the 2nd stage SRM (Z40);
 - Monitoring and technical assessment of verification activities related to the Z9 SRM and retrorockets re-use on Vega C and delta qualification activities if needed;
 - Supervising definition/adaptation of the launcher pyrotechnics subsystems (SRM ignition, stage separation, destruction/neutralisation) and related development and qualification activities;
 - Supervising Vega E studies in the postholder's area of expertise.
- Managing the solid rocket propulsion and pyrotechnics technical activities under Vega Exploitation in support of STS-EV and in particular:
 - Monitoring SRM (P80, Z23, Z9) manufacturing and acceptance;
 - Providing technical guidance for action on anomalies/non-conformances;
 - Assessing requests for waivers/deviations;
 - Assessing evolutions of the SRM (ECP) definition and possible impacts on the Vega Launcher qualification status;
 - Leading solid propulsion and pyrotechnics technical activities under Vega LEAP: flight data analysis, action on components/materials obsolescence, identifying actions to reduce recurrent costs during Exploitation;
 - Supporting Vega launch campaign activities (launcher's mechanical AIT), including assessment of all industrial requests for SMO and SMOS changes.

Technical competencies

Knowledge of technical domains and related R&D space industry trends

Technical domains and in particular space systems development

Knowledge of innovation-related processes

Behavioural competencies

Customer Focus

Innovation & Creativity

Problem Solving

Results Orientation

Self Motivation

Education

Applicants should have a Master's degree in engineering or an equivalent qualification and at least 10 years' work experience on large-scale development programmes.

Additional requirements

A good knowledge of the European launcher sector would be an asset.

Strong analytical skills and a demonstrated ability to interact with industry are major requirements.

A strong aptitude for planning, results-orientation, teamwork 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.

The closing date for applications is 19 July 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 external candidates from under-represented Member States. "In view of the limited duration of this post, internal candidates are strongly advised to contact their HR advisor before applying. (<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.