

Job Title: Vega Mechanical Systems Engineer

Req ID 1821 - Posted 03/08/2017



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 Mechanical Systems Engineer

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

Location

ESRIN, Frascati, Italy

Description

Vega Mechanical Systems Engineer in the Vega Launcher Stages Engineering, Vega and Space Rider Development Programmes, Space Transportation Development Department, Directorate of Space Transportation.

Duties

Under the authority of the Vega Launcher Stages Engineering Manager, the postholder will be involved in Vega development and exploitation activities.

Under Vega Development, the range of activities encompasses the development of Vega-C, Vega-E and relevant Vega spin-offs, in the field of primary cold structures with particular focus on small spacecraft mission service (SSMS) dispenser activities.

Specific responsibilities will include:

- managing the technical activities related to the design, development, qualification, assembly, integration, testing, acceptance, flight and post-flight of the mechanical systems within the abovementioned scope of activities;
- main tasks include the following contributions to:
 - trade-off analysis at mechanical systems level, in particular regarding subsystems/equipment layout, and recurrent and non-recurrent cost aspects
 - apportioning technical requirements from system level to mechanical subsystems, defining the relevant internal and external interface specifications, from launch system down to launcher system & subsystems, launch base, and launch range;
 - drafting statements of work;
 - evaluating industrial offers, negotiating industrial contracts and evaluating industry deliverables;
 - preparing and implementing the main project milestones, including specific project reviews at system and subsystem levels, within the area of responsibility;
- supporting the Vega Launcher Stages Engineering team in the design and qualification of structural elements of liquid propulsion systems (tanks, vessels) and solid rocket motor casing.

Under Vega Exploitation, the range of activities encompasses technical management of the mechanical systems in Vega Production. Duties will notably include:

- monitoring the manufacture and acceptance of Vega elements, ensuring compliance of the mission-specific configuration with the product qualification range;
- technical guidance for dealing with flight anomalies/non-conformance and assessing requests for waivers/deviations;
- assessing the evolving definition (ECP) of mechanical systems and their possible impact on the Vega launch vehicle's qualification status;
- following up the technical activities related to dealing with component/material obsolescence and actions aimed at reducing recurrent costs during the exploitation phase.

Technical competencies

Multi-disciplinary knowledge of area of responsibility
Knowledge of cost and schedule aspects related to area of responsibility
Knowledge of other technical domains with interfaces to own area of responsibility
Space system development and PA standards
Complex project risk management processes
ESA and industrial development, verification and procurement processes

Behavioural competencies

Multi-disciplinary knowledge of area of responsibility
Communication
Knowledge of cost and schedule aspects related to area of responsibility
Knowledge of other technical domains with interfaces to own area of responsibility
Space system development and PA standards
Complex project risk management processes
Planning & organisation
Problem solving
Responsible decision-making
Results orientation
Teamwork

Additional requirements

Consolidated experience within the European launchers sector is an asset, preferably coupled with familiarity with one or more space transportation spin-off applications (atmospheric re-entry and/or small spacecraft missions).

Education

Applicants for this post should have a Master's degree or equivalent qualification in a relevant engineering field, with a strong background in the design, development, assembly, integration, testing and acceptance of mechanical systems for space transportation applications.

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 7 September 2017.

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.

Priority will first be given to internal candidates and secondly to external candidates from under-represented Member States.

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.