

# Job Title: Vega and Space Rider Mechanical System Engineer

Requisition ID 12154 - Posted 04/03/2021



## EUROPEAN SPACE AGENCY

Vacancy in the [[customDirectorate]].

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.

### Post

#### Vega and Space Rider Mechanical System Engineer

This post is classified [[customGradeFrom]]-[[customGradeTo]] on the Coordinated Organisations' salary scale.

### Location

ESRIN, Frascati, Italy

### Description

Vega and Space Rider Mechanical System Engineer, Vega and Space Rider Mechanical & Propulsion Engineering, Vega Programmes, Flight Programmes, Directorate of Space Transportation.

### Duties

You will report to the Vega and Space Rider Mechanical & Propulsion Engineering Manager and be involved in Vega and Space Rider development and exploitation activities.

The range of activities encompasses the development of Vega-C, Vega-E, Space Rider and relevant spin-offs, in the area of mechanical systems (structures, both hot and cold, thermal control, mechanisms, descent and landing systems).

Your specific responsibilities will include:

- managing technical activities related to the design, development, qualification, assembly, integration, testing, acceptance, flight and post-flight of the mechanical systems for the above-mentioned scope of activities;
- main tasks include the following contributions:
  - trade-off analysis at mechanical systems level, in particular regarding subsystems/equipment layout, recurrent and non-recurrent cost aspects;
  - apportioning technical requirements from system level to mechanical subsystems, defining the launcher contribution to relevant internal and external interface specifications, from launch system down to launcher system and 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 level, in your area of responsibility;
  - monitoring the manufacturing and acceptance of Vega and Space Rider elements, ensuring compliance of the mission-specific configuration with the product qualification range;
  - technical guidance for dealing with flight anomalies/non-conformances 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/materials obsolescence and actions aimed at reducing recurrent costs during the exploitation phase.

### Technical competencies

Multidisciplinary knowledge of area of responsibility  
Knowledge of other technical domains with interfaces to own area of responsibility  
Space system development and PA standards  
Knowledge of ESA and industrial development, verification and procurement processes

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## Behavioural competencies

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

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## Education

A Master's degree in a relevant engineering field is required

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## Additional requirements

You should have:

- A strong background in the design, development, assembly, integration, testing and acceptance of mechanical systems for space transportation applications.
- Experience in 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).

## 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 1 April 2021.**

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 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 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.