

EUROPEAN SPACE AGENCY

Liquid Propulsion Engineer

Job Req ID: 14963

Closing Date: 30 March 2022

Publication: Internal & External

Vacancy Type: Fixed-Term

Date Posted: 02 March 2022

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. We therefore welcome applications from all qualified candidates irrespective of gender, sexual orientation, ethnicity, beliefs, age, disability or other characteristics. Applications from women are encouraged.

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

Location

ESRIN, Frascati, Italy

Description

Vega and Space Rider Liquid Propulsion Engineer in Vega and Space Rider Mechanical and Propulsion Engineering, Vega Programmes, Flight Programmes Department, Directorate of Space Transportation.

You will report to the Vega and Space Rider Mechanical and Propulsion Engineering Manager and will be involved in the High-Thrust Engine development activities and in other Vega and Space Rider development and exploitation activities.

Duties

The range of activities encompasses liquid propulsion system related development activities under the Vega and Space Rider Programmes, including engines, tanks, propulsion modules, attitude control systems and propulsion equipment, with a particular focus on the High-Thrust Engine.

Specific responsibilities include:

- managing technical activities related to the design, development, qualification, assembly, integration, testing, acceptance, flight and post-flight of liquid propulsion systems for the above-mentioned scope of activities.

The main tasks include contributing to:

- the trade-off analysis of liquid propulsion systems, in particular regarding subsystem and equipment layout, including recurrent and non-recurrent cost aspects;
- apportioning technical requirements from system level to liquid propulsion subsystems;
- drafting Statements of Work;
- evaluating industrial offers, negotiating industrial contracts and evaluating industry deliverables;
- preparing and implementing main project milestones, including specific project reviews at system and subsystem level, in your area of responsibility;
- monitoring the manufacture and acceptance of hardware under your direct responsibility, ensuring compliance of the mission-specific configuration with the product qualification range;
- assessing and resolving flight anomalies and non-conformances, as well as requests for waivers and deviations;
- assessing the evolving definition (ECPs) of liquid propulsion systems and the possible impact on the launch vehicle's qualification status;
- following up the technical activities related to the obsolescence of components and materials and actions aimed at reducing recurrent costs during the exploitation phase.

Technical competencies

Strong background in the design, development, assembly, integration, testing and acceptance of liquid propulsion systems for space transportation applications (including launch vehicle and orbital propulsion)

Knowledge of cost and schedule aspects related to area of responsibility

Knowledge of other technical domains with interfaces to own area of responsibility

Knowledge of Space system development and PA standards

Knowledge of project risk management

Knowledge of ESA's development, verification and procurement processes

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A master's degree in a relevant engineering field is required for this post.

Additional requirements

Direct experience in the development of Vega-related products is considered an asset.

Other information

For behavioural competencies expected from ESA staff in general, please refer to the [ESA Competency Framework](#).

For further information please visit: [Professionals](#), [What we offer](#) and [FAQ](#)

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.

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 or balanced 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 conducted by an external background screening service.

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.

*Member States, Associate Members or Cooperating States.