

# EUROPEAN SPACE AGENCY

## Mechanical Systems Lead Engineer

**Job Req ID:** 15010

**Closing Date:** 24 March 2022

**Publication:** Internal & External

**Vacancy Type:** Fixed-Term

**Date Posted:** 03 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.

This opportunity is open for the specific needs of a National Project, subject to the approval of ESA's Governing Bodies. **Accordingly, the selected external candidate for this post will continue to be considered an external candidate for the purpose of any future applications at the Agency.**

### **Location**

ESRIN, Frascati, Italy

### **Description**

Senior engineer responsible for the technology development activities of mechanical systems and stage propulsion elements in the Technical Assistance Programme, Flight Programmes Department, Directorate of Space Transportation.

### **Duties**

If selected for this post, you will, under the direct hierarchical authority of the Head of the Technical Assistance Programme Unit, be responsible for all technical and technological activities in the area of mechanical, propulsion, thermal subsystems, including assembly, integration and test.

Your duties will notably include:

- managing the technical activities concerning the Technical Assistance Programme, including design, development, testing, qualification/certification, elements/subsystem integration, elements/subsystem acceptance, flight/post-flight assessments;
- acting as Technical Authority to ensure the necessary harmonisation in implementing the Stage/Elements/Subsystems Engineering activities across the Technical Assistance Programme, in the Integrated Project Team organisation;

- defining the technical requirement apportionments and the design intent within the area of responsibility (i.e., stages/elements, mechanical, propulsion, thermal), including the evolutions, at stage/element, subsystem, and component level;
- drafting the relevant statements of work (SoWs) and project plans (PPs), thus evaluating the industrial offers, and supporting the negotiation of industrial contracts;
- evaluating the industrial deliverables and their formal acceptance by the Agency;
- preparing and implementing the main milestones, including specific reviews at system and subsystem level;
- preparing and implementing the main milestones, including specific reviews or Key Decision Points (KDPs) at Stage/Element and subsystem level;
- contributing to defining the relevant interface specifications toward the Test Range, including evolutions; preparing the inputs required for reporting to management and the Programme Board.

### **Technical competencies**

Multi-disciplinary and system knowledge in the area of responsibility

Knowledge of ESA and highly regulated industrial development, verification, and procurement processes

Knowledge of Lean Product Development methodologies and rapid prototyping

Knowledge of industrial costs and schedule aspects

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

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 for this post.

### **Additional requirements**

Minimum ten years' direct experience in highly-regulated aeronautic/automotive product development using Lean Product Development methodologies in industry and/or in ESA Programmes, is considered an asset.

Teamwork and Team Building posture

### **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](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.

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.