

## Safety Systems Engineer

**Job Req ID:** 12970

**Closing Date:** 08 November 2021

**Publication:** Internal & External

**Vacancy Type:** Permanent

**Date Posted:** 11 October 2021

Vacancy in the Directorate of Technology, Engineering and Quality.

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

### Location

ESTEC, Noordwijk, Netherlands

### Description

Safety Systems Engineer in the Independent Safety Office, Product Assurance and Safety Department, Directorate of Technology, Engineering and Quality.

The Independent Safety Office is responsible for overseeing the development, implementation, maintenance and certification of compliance with ESA policies, requirements, standards and support to ESA projects for:

- Human spaceflight safety
- Space debris mitigation
- Re-entry safety
- Nuclear safety for applications in space
- Planetary protection.

### Duties

You will report to the Head of the Independent Safety Office within the technical fields described above, and your main tasks and responsibilities will include:

- providing technical support and guidance to the ESA human spaceflight projects in the frame of the International Space Station and Lunar Gateway Programmes regarding the interpretation of safety requirements, identification of hazard causes, and implementation of hazard controls;
- supporting the ESA Safety Review Panel chair with regard to the conduct of ESA safety reviews for the certification of ISS and Lunar Gateway systems and payloads;
- providing technical support for assessing and communicating ESA astronaut safety risks for flights with international partners and commercial crew transportation vehicles;
- supporting ESA ISS Mission Operations by reviewing operational hazard controls and ensuring implementation of the related entries into the ESA Operations Control Agreement Database (eOCAD);
- providing support for human spaceflight safety related interface activities with ISS and Lunar Gateway international partners (e.g. preparation and processing of safety NCRs and

exemptions, and participation in programme integrated safety reviews);

- contributing to the continuous improvement of working procedures in the frame of the ESA safety review panels;
- participating in feasibility studies, project reviews and the evaluation of procurement proposals;
- contributing to the definition of technology development requirements and work plans for the Agency's technology programmes;
- monitoring applicable scientific and technological trends and maintaining state-of-the-art expertise;
- contributing to dissemination of the results of activities performed and to the transfer of knowledge across the Agency;
- providing expert technical support and advice to ESA projects, programmes and general studies in the frame of the responsibilities of the Independent Safety Office within your area of competence.

### **Technical competencies**

General background and specific experience in the technical domains covered by the position

Hands-on hardware experience

Experience in the development and verification of space hardware

Spacecraft systems knowledge

Experience with laboratory or field testing of relevant technical equipment

Experience in the management and monitoring of industrial activities, including participation in reviews

Experience with Space Engineering Standards and their preparation and implementation

### **Behavioural competencies**

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

### **Education**

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

### **Additional requirements**

Experience in human spaceflight safety certification for vehicle systems and payloads.

Experience in the development and verification of systems for human spaceflight.

### **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.

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 email [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.

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.