

# Job Title: Safety System Engineer

Req ID 9850 - Posted 19/03/2020



## EUROPEAN SPACE AGENCY

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. Applications from women are encouraged.

### Post

Safety System Engineer

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

This position forms part of ESA's Advance Recruitment Scheme which is established to provide appropriate staffing resources when requirements materialise. Appointments are therefore made for an initial duration of two years upon which the selected candidate may be appointed to a permanent post in the Agency.

### Location

ESTEC, Noordwijk, The Netherlands

### Description

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

The Office is responsible for overseeing the development, implementation, maintenance of ESA policies, requirements, standards and functional support to ESA projects and for:

- Human Spaceflight Safety
- Space Debris Mitigation
- Re-entry Safety
- Nuclear Safety for applications in space

### Duties

Reporting to the Head of Office within the technical fields described above, your main tasks and responsibilities include:

- providing technical support and guidance to ESA Human Spaceflight projects (ISS Columbus Module exploitation, Lunar Gateway European elements iHAB and ESPRIT, lunar exploration) for the generation and interpretation of safety requirements, identification of hazard causes, implementation of hazard controls and participation in flight safety reviews as part of the safety certification process;
- providing expert technical support and consultancy to ESA projects, programmes and general studies in the field of safety of Nuclear Power Sources (NPS) in space throughout all project phases;
- contributing to continuous improvement of working procedures in ESA safety review panels;
- participating in feasibility studies, project reviews and evaluation of procurement proposals;
- identifying critical development problems, assisting in their resolution;
- contributing to definition of technology development requirements and work plans for ESA's Technology Programmes;
- monitoring applicable scientific and technological trends, maintaining state-of-the-art expertise;

- contributing to the dissemination of the results of activities performed and the transfer of knowledge across the Agency.

Duties may include supporting other activities within your field 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

## Behavioural competencies

Communication

Teamwork

Customer Focus

Problem Solving

Results Orientation

Planning & Organisation

## Additional requirements

You should also have:

- knowledge of safety standards for aerospace applications
- specific experience with Human Spaceflight system safety requirements and related standards
- knowledge of safety requirements, regulations and standards relevant to NPS use in space

## Education

A Master's degree or equivalent qualification in aerospace engineering or systems safety and dependability engineering.

## 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 16 April 2020.

If you require support with your application due to a disability, please 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, Canada 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.

<http://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.