

RAMS (Reliability, Availability, Maintainability and Safety) Engineer

Job Req ID: 12746

Closing Date: 14 January 2022

Publication: Internal & External

Vacancy Type: Permanent

Date Posted: 10 December 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

You will be assigned as RAMS Engineer in the RAMS Section, Quality, Dependability and Product Assurance Support Division, Product Assurance and Safety Department, Directorate of Technology, Engineering and Quality.

The RAMS Section is responsible for the development, implementation and maintenance of dependability and safety expertise and standards. The Section provides dependability support to all ESA projects and safety support to ESA projects, except human space applications, space debris mitigation, nuclear power and re-entry safety. The Section significantly interfaces with the Independent Safety Office, in the same Department. It carries out technological research (R&D) in the areas of RAMS requirements, techniques, methodologies, and tools. It collaborates on standardisation and training activities.

Duties

You will report to the Head of Section and, within the above technical fields, your main tasks and responsibilities will include:

- supporting ESA projects in defining applicable dependability requirements, monitoring, and reporting their implementation;
- supporting reviews and audits for ESA projects and activities;
- identifying mission risks, and assessing ESA project risks and activities;
- developing and maintaining ESA dependability policies, requirements, and standards;
- collecting, evaluating and validating data for the prevention or avoidance of recurring problems;
- supporting liaison with the Department's Independent Safety Office to inform it of the dependability measures recommended to ESA projects, and gathering its ongoing feedback for safety certification activities;
- supporting liaison and maintaining synergy with systems and space operation teams (in particular the Directorate of Operations, D-OPS), for the purpose of continuously

improving and closing the loop between prediction and actual in-orbit operations, and gathering lessons learned;

- maintaining Agency and industry technical competence through training, symposia and workshops;
- developing RAMS techniques, methods and procedures, following an integrated dependability approach;
- defining, initiating and managing R&D activities covering long- and short-term ESA needs;
- supporting the Directorate's relevant competence domain activities;
- monitoring applicable scientific and technological trends and maintaining state-of-the-art expertise;
- contributing to dissemination of the results of activities performed and the transfer of knowledge across the Agency.

Duties may also include supporting other activities within your area of competence and the transfer of knowledge across the Agency.

Technical competencies

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

Understanding of related technologies, R&D trends and the industrial landscape

Project support experience in a relevant domain

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

Experience with Space Quality Standards and their preparation and implementation

Experience with the application of RAMS tools and methods at Satellite or Payload level

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A Master's degree in RAMS engineering and electronics or a similar technical field for this position is required.

Additional requirements

You must be eligible for security clearance by your national security administration.

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.

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.