Job Title: Software Product Assurance Engineer

Req ID **4861** - Posted **30/07/2018**

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

Software Product Assurance Engineer

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

Location

ESTEC, Noordwijk, The Netherlands

Description

Software Product Assurance Engineer in the Software Product Assurance Section, Quality, Dependability and PA Support Division, Product Assurance and Safety Department, Directorate of Technology, Engineering and Quality.

The Software Product Assurance (SW PA) Section provides functional support to ESA projects and is responsible for the development, implementation and maintenance of SW PA expertise and standards. It carries out technological research (R&D) in the fields of SW PA requirements, techniques, methodologies and tools. It also collaborates in standardisation and training activities.

Duties

Reporting to the Head of Section and within the technical fields described above, the main tasks and responsibilities of the post holder will include:

- providing expert technical support and consultancy to ESA projects, programmes and general studies in the field of SW PA throughout all project phases;
- preparing and implementing general programmatic and technical SW PA requirements aligned with Agency standards and specifications;
- establishing project-specific programmatic and technical SW PA requirements based on the ESA product assurance baseline;
- supporting projects in evaluating contractor documentation and efforts proposed for the execution of SW PA programmes;
- supporting projects in monitoring contractor SW PA programme execution to ensure compliance with SW PA requirements established for projects;
- evaluating proposed concepts, designs and operations for compliance with defined SW PA requirements;
- defining, initiating and managing R&D activities (SW PA requirements, techniques, methodologies and tools) covering long-/short-term needs;
- performing audits of contractors and their in-house standards for compliance with ESA requirements and assessing the maturity of contractor software processes;
- liaising with related engineering and product assurance specialists for overlapping fields of activity;
- monitoring applicable scientific and technological trends and maintaining state-of-the-art expertise;
- contributing to dissemination of the results of the activities performed 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 with the application of SW product assurance tools and methods
Experience in the management and monitoring of industrial activities, including participation in reviews
Experience with Space Quality Standards and their preparation and implementation

Behavioural competencies

Communication
Teamwork
Customer Focus
Problem Solving
Results Orientation
Planning & Organisation

Education

A Master's degree or equivalent qualification in computer science, mathematics or software engineering is required.

Additional requirements

Experience in at least three of the following areas: software product assurance in critical real-time applications, software engineering, software configuration management, dependability assessment of software intensive systems, software development and maintenance, software process assessment and auditing.
Candidates must be eligible for security clearance by their 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.

The closing date for applications is 10 September 2018.

If you require support with your application due to a disability, please 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 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. Priority will first be given to internal candidates and secondly to external candidates from under-represented Member States when short-listing for interview.
(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.