

## **EUROPEAN SPACE AGENCY**

### **Vacancy in the Directorate of Technical and Quality Management**

The European Space Agency is an equal opportunity employer and encourages applications from women

#### **POST**

Avionics Software Engineer in the Software Systems Engineering Section, Software Systems Division, Systems, Software and Technology Department, [Directorate of Technical and Quality Management](#).

This post is classified in the A2/A4 grade band of the Coordinated Organisations' salary scale.

#### **LOCATION**

ESTEC, Noordwijk (Netherlands) with resident assignment to ESRIN, Frascati (Italy).

#### **DUTIES**

The postholder will be assigned as integrated support in the function of Avionics Software Engineer to the Vega Development Programme, Launchers Development Programme Department, Directorate of Launchers and will report to the Launcher Avionics, GNC and Software Manager. The duties of the integrated support post will include:

- performing and assessing trade-offs relevant to the Vega avionics system architecture;
- defining and maintaining subsystem specifications and ensuring optimisation and completeness of the applicable requirements, including ensuring their consistency with the launch vehicle and launch system specifications as well as with the operational specifications;
- managing the development and qualification activities of the avionics units and/or on-board software under the responsibility of the incumbent;
- ensuring the proper application of Vega Project Standards and Management Rules;
- supporting the definition and performance of tests and verification programme in the area of responsibility of the postholder, including reviewing and approving test results;
- in the case of Vega software or avionics equipment evolution, reviewing and approving industry requirements specifications and assessing end-to-end specified performance and delta qualification required;
- supporting the Launch Vehicle Qualification Monitoring Officer in maintaining the status of qualification of avionics units and/or onboard software;
- coordinating, with the Vega Exploitation Team, the activities related to the manufacturing, integration and acceptance of avionics units and/or onboard software and related subsystems;
- coordinating, with the Ariane Exploitation Team, the treatment of evolutions and anomalies of common avionics units and/or onboard software in the field of responsibility of the incumbent and assessing the potential impact on the Vega qualification status;
- proposing new technologies and activities to be assessed in the frame of technology programmes in the areas of avionics and/or onboard software;

- monitoring the coherent and cost-effective implementation of requirements from system level up to the lower application level (including the impact of recurring costs);
- monitoring the schedule and risks of the relevant procurements as well as the maintenance of up-to-date related technical budgets;
- supporting launch campaigns as necessary as qualification monitoring authority;
- coordinating the specialised engineering support from the Directorate of Technical and Quality Management and CNES/Direction des Lanceurs in the appropriate areas of competence.

## QUALIFICATIONS

Applicants for this post should have a Master's degree or equivalent qualification in computer science and/or electrical engineering or similar, with background and experience in embedded real-time systems. Extensive knowledge of modern software engineering as well as practical experience in real-time software systems is required. Knowledge of spacecraft systems engineering and/or experience in the development, qualification of launchers and possibly operations of launch systems would be an advantage.

Preference will be given to candidates showing:

- comprehensive background of the Vega launch vehicle avionics and Vega launch system architecture, including Vega launch range and launcher operations;
- excellent competence in the domain of avionics and on-board software development.

Applicants should have good interpersonal and communication skills with the ability to work effectively and cooperatively in a diverse and international team environment and to define and implement solutions in line with team and individual objectives and project deadlines. In addition, they should have good analytical, organisational and reporting skills, a proactive attitude to solving problems and an interest in innovative technologies.

The working languages of the Agency are English and French. A good knowledge of one of these languages is required. Knowledge of another Member State language would be an asset.

## CLOSING DATE

The closing date for applications is **22 July 2014**.

Applications from external candidates for this post should preferably be made [online](#) from the ESA website ([www.esa.int/careers](http://www.esa.int/careers)). Those unable to apply on-line should submit their CV to the Human Resources, ESTEC, Keplerlaan 1, 2201 AZ Noordwijk ZH, The Netherlands.

ESA staff members wishing to apply for this post should fill in the [Internal Application Form](#) and email it to [Apply2ESTEC](#).

The Agency may require applicants to undergo selection tests.

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**Under ESA Regulations, the age limit for recruitment is 55. Please note that applications are only considered from nationals of one of the following States: Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, the United Kingdom and Canada.**

**Priority will first be given to internal candidates and secondly to external candidates from under-represented Member States.**

**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.**