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   Software Engineer, Software Systems Engineering Section, Software Systems Division, Systems, Software & In-Orbit Demonstration Department, Directorate of Technical and Quality Management.

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

LOCATION   ESTEC, Noordwijk (Netherlands).

DUTIES   The postholder will report to the Head of the Software Systems Engineering Section. The Section's core activity is to support ESA programmes in the development of flight software for satellites and spacecraft, including launchers and space station experiments. The Section also covers software engineering tools and techniques with a particular focus on system software co-engineering and model-driven developments and verification, as well as software standardisation (e.g. ECSS).

Duties will include:

- providing specialist technical support to ESA projects for real-time embedded software systems, including flight software and software engineering;

- participating in evaluating industrial proposals and in project reviews;

- technical monitoring of software development contracts, including verification of industrial outputs, reviews and acceptance;

- supporting the development of methodology for space system design with complex software tasks, with emphasis on system-software co-engineering, software architectures and end-to-end aspects;

- providing expert software support to the Avionics System Group for defining onboard avionics concepts and architectures, including highly integrated and reconfigurable systems;

- participating in defining and implementing the research programmes within the Division's competence, in particular concerning software architectures, validation, the impact of software reliability, availability, maintainability and safety (RAMS) requirements on the fault detection, isolation and recovery (FDIR) function and modern engineering methods/tools to improve the development and qualification processes for embedded software;

- contributing to standardisation activities for the software systems;

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

The postholder may also be called on to support other activities within the their sphere 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 a background and experience in real-time embedded software systems. Extensive knowledge of modern software engineering and practical experience of those systems is required. Knowledge of spacecraft systems engineering would be an advantage.

Candidates should have good interpersonal and communication skills. They should be able to work effectively, autonomously 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.

Applicants should also have good analytical, organisational and reporting skills, a proactive attitude to problem-solving and an interest in innovative technologies.

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.

CLOSING DATE   The closing date for applications is **30 August 2016**.

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

ESA staff members wishing to apply 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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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.

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.