

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

Telecommunication/TT&C Systems Engineer in the Telecommunication, TT&C Systems and Techniques Section, Radio Frequency Systems, Payloads and Technology Division, Electrical Engineering 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).

DUTIES

The postholder will report to the Head of the Telecommunication TT&C Systems and Techniques Section of the RF Systems, Payloads and Technology Division. The Division is responsible for the technical performance of space instrumentation and communication systems, subsystems, equipment and technology to be defined, developed and procured for ESA projects and technology programmes.

The principal tasks of the Telecommunication/TT&C System Engineer will include:

- assessing new telecommunication concepts and techniques to be applied to next generation systems for commercial and governmental telecommunications (mobile, fixed, data relay), for both space and ground segment;
- assessing new TT&C and security concepts and techniques to be applied to next generation systems for telecommunications, navigation, scientific and Earth observation missions;
- analysing, defining, specifying and developing key telecommunication and TT&C subsystems exploiting advanced techniques from architecture/algorithms to detailed design for future space communications elements;
- generating technical requirements and statements of work for the tasks to be performed by industry from early conceptual studies to full development of hardware;
- supporting ESA projects, particularly with regard to system aspects and the development and testing of telecommunication systems/subsystems, TT&C transponders and security modules;
- monitoring technical tasks carried out by external consultancies;
- participating in international standardisation bodies;
- supervising students and trainees working on subsystem analysis involving computer simulations, digital equipment testing and supporting activities in general;

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

QUALIFICATIONS

Applicants for this post should have a Master's degree in telecommunications engineering, complemented with several years of industrial work experience in the field of complex digital communications and TT&C systems, subsystems and networks. Knowledge of digital signal processing theory, techniques for secure communications and telecommunication protocols, including simulation tools, is required. Familiarity with the development of modem and TT&C transponder hardware, as well as with the related qualification and testing process, would be an asset. Familiarity with modern satellite telecommunications and TT&C standards would also be an asset.

Candidates should demonstrate good interpersonal and communication skills and be able to work autonomously, effectively and cooperatively in a diverse and international team environment and define and implement solutions in line with team and individual objectives and project deadlines. 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 October 2014**.

Applications from external candidates for this post should preferably be made [online](#) from the ESA website (www.esa.int/careers). Those unable to apply online should submit their CV to 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.

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 be given first 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.