



ESA/VN-ESTEC(2014)035, REV. 1  
Paris, 09 April 2014  
Reissued: 02 June 2014  
(English only)

## 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**

Propagation Engineer in the Wave Interaction & Propagation Section, Electromagnetics and Space Environment 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 Wave Interaction and Propagation Section of the Electromagnetics and Space Environment Division.

The general responsibilities of the incumbent will be technical support in the area of propagation, in particular for the detailed prediction of the link performance under the influence of ionospheric effects and other environmental effects. This will involve technical support to ESA projects and the definition and management of research and development (R&D) activities.

Specific responsibilities and tasks will include:

- modelling of the navigation propagation channel using state-of-the-art software tools and databases;
- modelling of ionospheric propagation conditions and their effects on satellite communications, navigation and remote sensing missions;
- statistical and deterministic modelling of the land mobile propagation environment (using ITU-R and other methods);
- designing and managing related measurement campaigns (using land mobile propagation terminals).

The postholder will assist the Head of the Wave Interaction and Propagation Section in the planning and execution of R&D activities as well as in managing the necessary software tools and databases. The incumbent will also be involved in project reviews for navigation and telecommunication missions.

## **QUALIFICATIONS**

Applicants for this post should have a Master's degree or equivalent qualification in engineering or physics with a major emphasis on electromagnetics. Experience in electromagnetic modelling relevant to navigation signals is also required. Previous experience in the field of navigation systems and navigation receivers is a strong asset.

Candidates should have good interpersonal and communication skills. They should have the ability to work autonomously, 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, applicants 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 **30 June 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 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.

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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.**