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Paris, 8 March 2017  
(English only)

## **EUROPEAN SPACE AGENCY**

### **Vacancy in the Directorate of Technology, Engineering and Quality**

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

- POST** Space Environment and Effects Engineer in the Space Environments and Effects Section, Power Systems, EMC & Space Environments Division, Electrical Department, [Directorate of Technology, Engineering and Quality](#).
- This post is classified in the A2–A4 grade band on the Coordinated Organisations' salary scale.
- LOCATION** ESTEC, Noordwijk (Netherlands).
- DUTIES** The Space Environments and Effects Section supports the development of ESA missions and programmes by investigating the space environments within which they will operate, assessing likely effects and defining mitigation methods. Environments addressed include: high-energy radiation from radiation belts, solar-particle events and cosmic rays; plasmas encountered in planetary magnetospheres, the solar wind and artificially-generated charges and fields on spacecraft; micro-meteoroids and non-trackable debris as well as planetary atmospheres. The Section also initiates and manages related technology R&D activities. See its web page (<http://space-env.esa.int>) for more details.
- Reporting to the Head of Section and within these technical domains, the postholder's responsibilities will include:
- supporting ESA project development and operations by providing analyses of space environments and their effects in all project phases;
  - preparing and maintaining space environment specifications in early project phases;
  - reviewing the work of industry in assessing the impact of space environments on space systems design;
  - supporting flight operation of environment monitors and performing analysis of their data;
  - supporting investigation of inflight behaviour of spacecraft and payloads;
  - preparing and performing R&D activities to improve understanding of an environment and its effects in the context of future missions preparation, including developing models, computational tools and instrumentation;
  - preparing and maintaining related engineering standards;
  - liaising with national agencies and institutes as required, in particular for harmonisation of R&D activities;
  - contributing to the support and development of a mixed Linux/Windows IT infrastructure of the Section and its specialist computational tools, including data systems, environment models, radiation effects analysis tools, integrated analysis environments and legacy systems and tools;

- monitoring applicable scientific and technological trends, maintaining state-of-the art expertise;
- contributing to the dissemination of the results of activities performed and the transfer of knowledge across the Agency.

## QUALIFICATIONS

Applicants for this post should have a Master's degree or equivalent qualification in physics, applied mathematics, engineering or a similar field, with a strong computing background, as well as several years' experience of space environment engineering or physics. An in-depth knowledge of related computational tools is required.

Candidates should have good interpersonal and communication skills. They should be able to work autonomously, effectively and cooperatively in a diverse and international team environment, defining and implementing solutions in line with team and individual objectives, as well as project deadlines.

Applicants should have good analytical, organisational and reporting skills, a proactive attitude to solving problems 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 two languages is required. Knowledge of another member state language is an asset.

## CLOSING DATE

The closing date for applications is **5 April 2017**.

Applications from external candidates 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 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, Slovenia, 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.**