

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

Analyst in the Space Environments and Effects 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 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 the 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; planetary atmospheres. The Section also initiates and manages related technology research and development (R&D) activities. See the Section web page (<http://space-env.esa.int>) for more details.

The postholder will report to the Head of the Space Environment and Effects Section. Specific responsibilities will include:

- supporting ESA project development and operations through the provision of 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 respect of assessing the impact of space environments on the design of space systems;
- supporting flight operation of environment monitors and executing analyses of their data;
- supporting the investigation of in-flight behaviour of spacecraft and payloads;
- preparing and executing R&D activities to improve understanding of the environment and its effects in the context of future mission preparation, including developing models, computational tools and instrumentation;
- preparing and maintaining related engineering standards;

- liaising with national agencies and institutes, as required, in particular in relation to the harmonisation of R&D activities;
- contributing to the support and development of a mixed Linux/Windows IT infrastructure for the Section and its specialist computational tools, including data systems, environment models, radiation effects analysis tools, integrated analysis environments, legacy systems and tools;
- contributing to the diffusion 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 or equivalent qualification in physics, applied mathematics, engineering, or 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, together with experience of Java, C++, Fortran and IDL.

Candidates should have good interpersonal and communication skills with an 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, applicants should have good analytical, organisational and reporting skills and a proactive attitude to solving problems.

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 **28 August 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 first be given to internal candidates and secondly to external candidates from under-represented 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.