

**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**

Photonic Components Engineer in the Components Technology Section, Components Technology and Space Materials Division, Product Assurance and Safety 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 (The Netherlands).

**DUTIES**

The postholder shall report to the Head of the Components Technology Section. The Section is responsible for activities in the field of Electrical, Electronic and Electromechanical (EEE) components. In addition, the Section provides support in all phases of component development, from process definition to qualification and flight.

The incumbent shall provide support in the area of photonic component and detector technologies such as light sources, light detection, planar waveguide photonic devices, fibre optic links, fibre optic sensors and detectors (e.g. CCD, APS, SWIR and VNIR).

The specific duties of the post include:

- providing expert technical support to ESA projects, national space agencies and European space industry related to the selection, characterisation, evaluation, qualification and application of photonic components for space applications;
- assessing parts non-conformance in ESA projects;
- determining ESA technology needs and defining technology study activities as well as preparing and evaluating research proposals;
- formulating and managing technology programmes addressing the Agency's foreseen requirements for photonic components, especially within the framework of European Component Initiative activities;
- leading appropriate working groups for the European coordination of photonic components and reviewing and maintaining the related component engineering standards and specifications;
- defining and monitoring work to be performed by the ESA Materials and Components Laboratory.

## **QUALIFICATIONS**

Applicants for this post should have a Master's degree or equivalent qualification in physics, electronics or a related subject. Furthermore, good knowledge of device physics and failure modes related to photonic components covering one or more of the product domains listed above is required. This educational background shall be complemented by at least seven years of professional experience in the area of R&D, laboratory investigations, manufacturing processes, design, development or testing of components. A good knowledge of space engineering requirements and related standards and specifications (ECSS and ESCC systems) is required.

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 is an asset.

## **CLOSING DATE**

The closing date for applications is **01 April 2014**.

Applications from external candidates for this post should preferably be made [on-line](#) at the ESA Web Site ([www.esa.int/careers](http://www.esa.int/careers)). Those unable to apply on-line should submit their CV to the Head of the Human Resources Division, 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 be first 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.**