

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

Opto-electronics Engineer in the Opto-electronics Section, Mechatronics and Optics Division, Mechanical Engineering Department, [Directorate of Technical and Quality Management](#).

This post is classified in the A2–A4 grade band on the Coordinated Organisations' salary scale.

LOCATION

ESTEC, Noordwijk (Netherlands).

DUTIES

The post holder will report to the Head of the Opto-electronics Section of the Mechatronics and Optics Division. The Opto-electronics Section deals with the specification, development and characterisation of photonic components and systems, such as detectors and lasers operating in the UV to FIR wavelength ranges, fibre-optic sensors, lidar and optical communication systems. The Section contributes to the application of these technologies in space missions.

Within the technical domains described above, the main tasks and responsibilities of the post will include the following:

- providing support to projects, programmes and general studies in optoelectronic systems and detector design;
- participating in project reviews and evaluations of procurement proposals;
- translating optical system requirements into detector specifications, defining the system architecture, configuration and interfaces;
- defining scientific and technological trends, maintaining state-of-the-art expertise, fostering new application areas;
- establishing relevant detector technology development activities within the Agency's basic and support technology programmes, and further monitoring industrial R&D activities;
- identifying critical development areas, assisting with their resolution and executing related analysis and design work;
- monitoring applicable scientific and technological trends and maintaining state-of-the-art expertise;
- contributing to the diffusion 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 optoelectronics engineering or applied physics. Preference will be given to those applicants with a PhD. Candidates should demonstrate significant experience in the design, definition, development or application of detectors and detection chains including one or more of the following detector types: MCT, InGaAs, CMOS image sensors, charge-coupled devices. Experience of other detector types, or in laboratory testing and characterisation of detectors and focal plane designs, will be considered an asset.

Candidates should have good interpersonal and communication skills. They should be able to work effectively, autonomously 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 also 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 is required. Knowledge of another Member State language would be an asset.

CLOSING DATE

The closing date for applications is **22 December 2015**.

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

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, 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.