

## **EUROPEAN SPACE AGENCY**

### **Directorate of Technical and Quality Management**

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

- TITLE** Microwave Component Engineer in the Components Technology Section, Components Technology and Space Materials Division, Product Assurance and Safety Department, [Directorate of Technical and Quality Management](#).
- GRADE** This position is classified in the A2/A4 grade band of the Coordinated Organisations' salary scale.
- This position forms part of ESA's Advance Recruitment Scheme which is established to provide appropriate staffing resources when requirements materialise. Appointments are therefore made for an initial duration of two years subsequent to which the selected candidate may be appointed to a permanent post in the Agency.
- LOCATION** ESTEC, Noordwijk (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 Microwave Component Engineer provides support in the area of microwave technologies such as SiGe, GaN and GaAs both in discrete and MMIC forms.
- The specific duties of the post will include:
- providing expert technical support to ESA projects, national space agencies and the European space industry related to the selection, characterisation, evaluation, qualification and application of microwave components for space applications;
  - assessing non-conformance of microwave parts in ESA projects;
  - determining ESA technology needs and associated roadmaps and defining technology study activities;
  - preparing and evaluating research proposals;
  - formulating and managing technology programmes addressing Agency-foreseen requirements for microwave components, especially activities under the European Component Initiative;
  - supporting appropriate working groups for the European coordination of microwave components as well as reviewing and maintaining the related component engineering standards and specifications;
  - defining and monitoring of work to be performed by the ESA Materials and Components Laboratory;

- 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 in physics, electronics or a related subject. Furthermore, good knowledge of device physics and failure modes related to microwave components covering one or more of the microwave technologies listed above is required. A good knowledge of SiGe technology both for microwave and mixed A/D applications would be an asset.

Candidates should also have professional experience in the area of research and development (R&D), laboratory investigations, manufacturing processes, design, development or testing of components.

A good knowledge of space engineering requirements and related standards and specifications (e.g. ECSS and ESCC systems) is required.

Applicants 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, candidates 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 **26 January 2015**.

Applications from external candidates for this position 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 the Head of the ESTEC Human Resources Division, ESTEC, Keplerlaan 1, 2201 AZ Noordwijk ZH, The Netherlands.

ESA staff members wishing to apply for this position 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.**

**Recruitment will normally be at the first grade in the band (A2); however, if the candidate selected has little or no experience, the position may be filled at A1 level.**

**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.**