

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

Component 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 (Netherlands).

DUTIES

The postholder will 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 Component Engineer provides support in the area of hybrid components and generic component packaging activities. The major technologies, processes and techniques to be covered by this post will be: thin and thick film technologies with integrated and discrete passive and active components as well as the associated packaging, sealing, die attach and wiring techniques. Furthermore, emerging non-hermetic packaging techniques are covered by these posts.

In addition, the incumbent will provide product assurance (PA) support to the research and development (R&D) activities primarily in the areas covered by ECSS-ST-Q-60. Support will also be provided in the areas covered by ECSS-ST-Q-70, in close collaboration with Materials and Processes experts.

The specific duties of the post will include:

- providing expert technical support to ESA projects in terms of the selection and application of hybrid components for space projects;
- assessing hybrid parts and packaging non-conformances;
- technical assessment and monitoring of European hybrid space manufacturers and Assembly and Test Houses (ATH);
- determining ESA technology needs and associated roadmaps and defining and managing technology study activities;
- providing technical support to the related standards (mainly ECSS and ESCC systems) as well as to ESCC audits;
- defining and monitoring the work to be performed by the ESA Materials and Components Laboratory;
- tailoring the PA and Safety requirements to ESA R&D activities and supporting the follow-up of these requirements;
- initiating research and study activities in relation to PA requirements and techniques, to tools and integrated engineering process methodologies and to risk management methods for R&D programmes;

- assessing the achievements of the Directorate's R&D activities by evaluating the achieved Technology Readiness Level (TRL) for all phases of R&D activities and developing further methodology in the field;
- contributing to the dissemination 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, electronics or a related subject. Furthermore, a good knowledge of device physics and failure modes, preferably related to hybrid and packaging technologies, is required.

Substantial professional experience in the domain of EEE components and PA engineering is required in at least one of the following areas: R&D, manufacturing, development and testing. This should be complemented with relevant experience in PA activities.

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

Candidates should demonstrate good interpersonal and communication skills, be able to work autonomously, effectively and cooperatively in a diverse and international team environment and define and implement solutions in line with team and individual objectives and project deadlines. They 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 **29 January 2015**.

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 be given first 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.