

## 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**

Structural Engineer in the Structures Section, Structures and Mechanisms Division, Mechanical 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 postholder will report to the Head of the Structures Section of the Structures and Mechanisms Division and will provide functional support to future spacecraft and payload projects in the areas of mechanical systems, structural design and verification, manufacturing, structural dynamics and application of lightweight structures. In addition, the incumbent will participate in conceptual and feasibility studies and provide support to the Agency's Technology R&D activities.

The main tasks of the post will include the following:

- providing functional support to approved projects and feasibility studies in the preparation of specifications, and analysis of industrial proposals;
- providing functional support to approved projects and feasibility studies in relation to all aspects of mechanical systems and configuration, structural design, analysis and mechanical testing;
- identifying critical development problems and assisting in their resolution; this includes evaluating complete mechanical systems;
- executing structural analysis as required to support the development of structures subsystems;
- participating in major reviews of spacecraft, launchers and payloads;
- establishing and evaluating specifications for the development and qualification of spacecraft system and subsystem structures with respect to defining requirements for environment induced loads, model development philosophy and relevant verification methods;
- participating in the definition and execution of Agency standards and technology programmes, with special emphasis on mechanical system and configuration aspects, lightweight structures, reflector antennae structures, large deployable structures, structural dynamics and advanced structural materials technologies;
- supporting concurrent design activities in respect of mechanical systems aspects.

## QUALIFICATIONS

Applicants for this post should have a Master's degree in mechanical or aeronautical engineering, and several years' experience with spacecraft and payload structures and structural analysis. A good knowledge of mechanical systems and advanced methods of structural development and verification is required. Experience in concurrent engineering and interfacing with other space disciplines would be an asset.

Candidates should have demonstrated ability to deal with contractors in the preparation of programmes and appraisal of proposals. They should also have experience in the execution of spacecraft and payload reviews, ideally acquired through dealing with spacecraft and payload structures, including stable structures.

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 **22 October 2014**.

Applications from external candidates for this post 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 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.

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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 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.**