

## 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**

Thermal Engineer (2 posts) in the Thermal Control Section, Thermal 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 postholder will work within a group providing technical support to various programmes in the field of thermal control.

The main contributions to the group's work will entail:

- providing thermal support to ESA projects (e.g. its Earth Observation, Science, Telecommunication and Navigation Programmes) and to early feasibility and definition studies (e.g. involving ESTEC's Concurrent Design Facility) for spacecraft and payloads:
  - identifying critical development problems and assisting in their resolution,
  - performing analysis as required to support the thermal subsystem definition,
  - participating in thermal testing activities in support of these projects and correlating analysis and test results,
  - reviewing and evaluating the thermal control subsystems of ESA projects;
- participating in defining and implementing ESA's Technology Research and Development programmes and European Space Technology Harmonisation activities, with emphasis on advanced thermal hardware technologies;
- participating in the evaluation of industrial proposals and project reviews;
- participating in European Cooperation for Space Standardization (ECSS) activities in the thermal engineering area;
- contributing to the dissemination of the results of the activities performed and the transfer of knowledge across the Agency.

## QUALIFICATIONS

Applicants for these posts should have a Master's degree or equivalent in physics or thermal/mechanical engineering.

A good knowledge of thermal systems and their spacecraft system interfaces is essential. This should cover conceptual design and the related analysis activities, thermal control materials and components, integration of thermal hardware and testing at component/subassembly/subsystem and system level. Several years of relevant experience in these areas is required, as is solid experience of thermal analysis tools such as ESATAN-TMS.

Knowledge and experience of developing space-related thermal hardware such as advanced thermal insulation, thermal energy storage, heat transport and heat rejection technologies, etc. would be an asset. For the second post, knowledge and experience of cryogenics and cryocoolers would also be 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, and should be able to 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 **10 November 2015**.

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

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**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, 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.**