

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/Cryogenics Engineer 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 report to the Head of the Thermal Control Section within the Thermal Division. The Section provides functional support to ESA projects and performs technological research (R&D) in the field of thermal engineering, including cryogenics.

Within that technical field, the main tasks and responsibilities will include:

- providing expert technical support and consultancy to ESA projects, programmes and general studies on thermal/cryogenic engineering throughout all project phases. The main contribution is expected to be on Science and Earth Observation payloads and instruments, with emphasis on those operating in the cryogenic domain;
- participating in project reviews and evaluations of procurement proposals;
- performing analysis as required to support thermal/cryogenic subsystem definition;
- participating in thermal and cryogenics testing activities in support of these projects, correlating analysis and test results;
- identifying critical development problems, assisting in their resolution;
- contributing to the definition of technology development requirements and work plans for ESA technology programmes;
- defining, initiating and managing R&D activities covering both long- and short-term needs, notably in cryogenics;
- fostering new application areas for multidisciplinary activities, with emphasis on innovative concepts, cutting-edge technologies and system architectures;
- monitoring applicable scientific and technological trends, maintaining state-of-the-art expertise;

- participating in European Cooperation for Space Standardization (ECSS) activities in the thermal/cryogenic engineering area;
- contributing to the dissemination of the results of activities performed and the transfer of knowledge across the Agency.

QUALIFICATIONS

Applicants should have a Master's degree or equivalent qualification in physics or thermal/mechanical engineering. Knowledge of space-based thermal control is required. Solid experience in cryogenics and sub-Kelvin systems, e.g. cryocoolers, would be an asset.

Candidates should have good interpersonal and communication skills and 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 problem-solving 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 **30 August 2016**.

Applications from external candidates should preferably be made [online](#) from the ESA website (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.

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.