

EUROPEAN SPACE AGENCY

Vacancy in the Directorate of Technology, Engineering and Quality

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. Applications from women are encouraged.

POST

Thermal Analysis and Verification Engineer in the Thermal Analysis and Verification Section, Thermal Division, Mechanical Department, [Directorate of Technology, Engineering and Quality](#).

This post is classified in the A2-A4 grade band on the Coordinated Organisations' salary scale.

LOCATION

ESTEC, Noordwijk (Netherlands).

DUTIES

The Thermal Analysis and Verification Section provides technical support to ESA projects and carries out technological research (R&D) in the fields of thermal analysis tools and methods. It is responsible for the Mechanical Systems Laboratory, which provides support to ESA projects and external customers in the area of thermal and mechanical verification mainly based on experimental methods.

Reporting to the Head of Section and within the abovementioned technical fields, the postholder's main tasks and responsibilities will include:

- providing technical support and consultancy to ESA projects for the development and verification of small-scale spacecraft, payloads and instruments by testing;
- performing various analyses in coordination with the Thermal Control Section;
- supporting Laboratory activities in defining, planning and performing tests and experiments in the thermal and mechanical domain in support of ESA projects and external third-party customers in compliance with agreed specifications;
- developing and validating innovative test methods and improving existing test methods and procedures, test set-ups and facilities in order to maintain test quality and reliability in line with customer expectations;
- providing support to projects and external customers, where required, on experimental verification methods in the thermal/mechanical area; support for establishing test specifications;
- contributing to the definition and implementation of ESA's technology R&D programmes, with emphasis on thermal analysis and verification methods;
- participating in project reviews and evaluation of procurement proposals;
- contributing to the dissemination of the results of the activities performed and the transfer of knowledge across the Agency.

QUALIFICATIONS

Applicants should have a Master's degree or equivalent qualification in thermal/mechanical engineering, with a good knowledge and practical experience of experimental test methods for space applications in the thermal/mechanical fields and the related technologies, i.e. vacuum technique, vibration, cryogenics and data acquisition, together with experience of thermal analysis.

Good knowledge of spacecraft systems and subsystems in the thermal/mechanical area is an asset, as is knowledge of laboratory quality systems, e.g. ISO17025/9001.

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, defining and implementing solutions in line with team and individual objectives, as well as project deadlines.

In addition, they should have good analytical, organisational and reporting skills, a proactive attitude to solving problems 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 languages is required. Knowledge of another Member State language would be an asset.

CLOSING DATE

The closing date for applications is **6 April 2017**.

Applications from external candidates 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 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, Slovenia, 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.