

Job Title: Thermal Analysis and Verification Engineer

Req ID 1341 - Posted 20/07/2017



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

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

Location

ESTEC, Noordwijk, The Netherlands

Description

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.

Duties

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 in the laboratory;
- performing various thermal 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.

Technical competencies

General background and experience in the technical domains covered by the position

Understanding of related technologies, R&D trends and the industrial landscape

Project support experience in a relevant domain

Experience with laboratory or field testing of relevant technical equipment

Knowledge of laboratory quality and maintenance systems, e.g. ISO 17025/9001

Experience in the preparation of procurement activities for technology development and innovation (e.g. statements of work, proposal evaluation)

Experience in the management and monitoring of industrial activities, including participation in reviews

Behavioural competencies

Communication
Customer focus
Innovation & creativity
Problem solving
Results orientation
Planning & organisation

Additional requirements

Applicants should have good knowledge and practical experience of experimental test methods for space applications in the thermal/mechanical fields and the related technologies, i.e. vacuum techniques, 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.

Education

Master's degree or equivalent qualification in thermal/mechanical engineering.

Other information

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.

The Agency may require applicants to undergo selection tests.

The closing date for applications is 4 September 2017.

If you require support with your application due to a disability, please email contact.human.resources@esa.int.

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 and Slovenia.

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.