

Job Title: Thermal Analysis Engineer

Req ID 9923 - Posted 22/06/2020



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 Engineer

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

This position forms part of ESA's Advance Recruitment Scheme which is established to provide appropriate staffing resources when requirements materialise.

Appointments are therefore made for an initial duration of two years upon which you may be appointed to a permanent post at the Agency.

Location

ESTEC, Noordwijk, The Netherlands

Description

Thermal Analysis Engineer in the Thermal Analysis & Verification Section, Thermal Division, Mechanical Department, Directorate of Technology, Engineering & Quality.

The Section provides functional support to ESA projects and carries out technological research (R&D) in the field(s) of thermal analysis methods and tools, as well as interdisciplinary analysis in the mechanical domain and related product data exchange. It is also responsible for the Mechanical Systems Laboratory, which provides support to ESA projects and external customers for thermal and mechanical verification testing.

Duties

Reporting to the Head of Section and within the technical fields described above, your main tasks and responsibilities will include:

- providing expert technical support and consultancy to ESA projects, programmes and general studies in the fields of thermal analysis, related methods, tools and product data exchange throughout all project phases;
- participating in feasibility studies, project reviews and evaluations of procurement proposals;
- identifying critical development problems, assisting in their resolution;
- contributing to the definition of technology development requirements and work plans for the Agency's Technology Programmes;
- defining, initiating and managing R&D activities covering long- and short-term needs;
- fostering new application areas for multidisciplinary activities, placing emphasis on innovative concepts, cutting-edge technologies and system architectures;
- laboratory activities in the Mechanical Systems Laboratory as required;
- monitoring applicable scientific and technological trends and maintaining state-of-the-art expertise;
- contributing to the dissemination of the results of activities performed and the transfer of knowledge across the Agency.

Duties may include supporting other activities within your field of competence.

Technical competencies

General background and specific experience in the technical domains covered by the position
Experience with the design, development and application of relevant tools and methods
Understanding of and practical experience with related technologies, R&D trends and the industrial landscape
Project support experience in a relevant domain
Spacecraft systems knowledge
Environmental testing for space hardware

Behavioural competencies

Communication
Teamwork
Customer Focus
Innovation & Creativity
Problem Solving
Planning & Organisation

Education

A Master's degree or equivalent qualification in thermal/mechanical engineering or computational physics is required.

Additional requirements

A good knowledge of thermal analysis tools such as ESATAN-TMS and knowledge of space thermal control engineering is required. Knowledge of and interest in software engineering and numerical methods will be assets.

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 20 July 2020.

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, Canada and Slovenia.

According to the ESA Convention the recruitment of staff must take into account an adequate distribution of posts among nationals of the ESA Member States. When short-listing for an interview, priority will first be given to internal candidates and secondly to external candidates from under-represented Member States.

(<http://esamultimedia.esa.int/docs/careers/NationalityTargets.pdf>)

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.

Recruitment will normally be at the first grade in the band (A2); however, if the candidate selected has little or no experience, the position may be filled at A1 level.