

Job Title: Thermal Engineer

Req ID 9671 - Posted 21/07/2020



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 Engineer

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

Location

ESTEC, Noordwijk, The Netherlands

Description

Thermal Engineer in the Thermal Control Section, Thermal Division, Mechanical Department, Directorate of Technology, Engineering and Quality.

The Thermal Control Section provides functional support to ESA projects and carries out technological research (R&D) in the field of thermal control, including cryogenics.

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 field of thermal control/cryogenics throughout all project phases;
- participating in feasibility studies, project reviews and evaluation of procurement proposals;
- performing analysis as required to support the thermal/cryogenic subsystem definition;
- participating in thermal and cryogenics testing activities, and correlating analysis and test results;
- identifying critical development problems and 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 both 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 as required;
- monitoring applicable scientific and technological trends and maintaining a state-of-the-art expertise;
- contributing to the dissemination of the results of the activities performed and the transfer of knowledge across the Agency.

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

Technical competencies

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

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

Project support experience in a relevant domain
Environmental testing for space hardware
Experience in the preparation of procurement activities for technology development and innovation (statements of work, proposal evaluation, etc)
Experience in the management and monitoring of industrial activities, including participation in reviews
Experience with Space Engineering Standards and their preparation and implementation

Behavioural competencies

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

Education

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

Additional requirements

A general knowledge of space thermal control analysis tools, e.g. ESATAN-TMS, is required, as is a minimum of five years' experience in the thermal domain and experience with related technologies.
Experience in cryogenics and sub-Kelvin systems, e.g. cryocoolers, would be an asset.

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 01 September 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 and 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.