

Job Title: Chemical Propulsion Engineer

Requisition ID 11845 - Posted 23/11/2020



EUROPEAN SPACE AGENCY

Vacancy in the Directorate of Technology, Engineering & 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

Chemical Propulsion Engineer

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

Location

ESTEC, Noordwijk, The Netherlands

Description

Chemical Propulsion Engineer in the Chemical Propulsion Section, Propulsion, Aerothermodynamics and Flight Vehicles Engineering Division, Mechanical Engineering Department, Directorate of Technology, Engineering and Quality.

The Chemical Propulsion Section provides functional support to ESA projects and carries out technological research (R&D) on chemical propulsion.

Duties

You will report to the Head of Section and your main tasks and responsibilities will include:

- providing expert technical support and consultancy to ESA projects, programmes and general studies in the area of chemical propulsion throughout all project phases;
- participating in feasibility studies, project reviews and evaluation of procurement proposals;
- 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, with the emphasis on innovative concepts, cutting-edge technologies and system architectures;
- laboratory activities as required;
- monitoring applicable scientific and technological trends and maintaining state-of-the-art expertise;
- contributing to dissemination of the results of activities performed and the transfer of knowledge across the Agency.

Your duties may also include supporting other activities within your area of competence.

Technical competencies

General background and specific 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

Spacecraft systems knowledge

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

Result Orientation

Operational Efficiency

Fostering Cooperation
Relationship Management
Continuous Improvement
Forward Thinking

Education

Applicants for this post should have a Master's degree in aerospace or mechanical engineering, with an emphasis on subjects relating to space propulsion.

Additional requirements

- Several years of experience in the design and development of chemical propulsion systems and components for spacecraft applications.
- A comprehensive system-level background, including an appreciation of the state-of-the-art in space propulsion, in particular spacecraft chemical propulsion systems.
- A good knowledge of the specialist technological areas involved in space propulsion (including the assembly, integration and verification (AIV) and testing of propulsion systems and components).
- Experience in the definition and specification of space propulsion R&D activities.

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 21 December 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, Latvia 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.
(<https://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.