

Job Title: Chemical Propulsion Engineer

Req ID 9673 - Posted 18/02/2020



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

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

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

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 regarding 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 definition of technology development requirements and work plans for the ESA's technology programmes;
- Defining, initiating and managing R&D activities covering long-/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 state-of-the-art expertise;
- Contributing to dissemination of the results of activities performed and to the transfer of knowledge across the Agency.

Your 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 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

Communication
Teamwork
Innovation & Creativity
Problem Solving
Results Orientation
Planning & Organisation

Education

A Master's degree or equivalent qualification in aerospace or mechanical engineering, with an emphasis on space-propulsion-related subjects, is required.

Additional requirements

Several years' 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.

A good knowledge of the specialist technological areas involved in space propulsion (including assembly, integration, verification (AIV) and testing of systems and components).

Experience in the definition and specification of R&D activities in the space propulsion field.

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 17 March 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.