

Job Title: Mechanisms Engineer

Req ID 8754 - Posted 18/06/2019



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

Mechanisms 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 the selected candidate may be appointed to a permanent post in the Agency.

Location

ESTEC, Noordwijk, The Netherlands

Description

Mechanisms Engineer in the Mechanisms Section, Structure, Mechanisms and Materials Division, Mechanical Department, Directorate of Technology, Engineering and Quality.

The Mechanisms Section provides functional support to ESA projects and carries out technological research (R&D) in the field(s) of: space mechanisms (such as for deployment and pointing or hold-down and release, solar array drives and reaction wheels), tribology, pyrotechnics and space mechanical systems for satellites and launchers.

Duties

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

- providing expert technical support and consultancy to ESA projects, programmes and general studies throughout all project phases;
- participating in project reviews and procurement package evaluations;
- identifying critical development problems and assisting in their resolution, as well as assessing mechanisms development and verification test programmes;
- establishing relevant technology development requirements under the Agency's basic and supporting technology programmes;
- defining, initiating and monitoring appropriate industrial research and development activities;
- pursuing product developments for science and commercial space market applications in the field of space mechanisms;
- fostering new application areas for multidisciplinary mechanical systems, placing emphasis on innovative concepts, cutting-edge technologies and system architectures that can lead to potential breakthroughs in mission capabilities;
- defining relevant infrastructure requirements in terms of testing, standards and numerical simulation;
- monitoring applicable technological trends and maintaining state-of-the-art expertise in the relevant domains;
- 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 the post holder's field of competence.

Technical competencies

General background and specific experience in the technical domains covered by the position
Experience in the design, development and verification of related 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
Innovation & Creativity
Results Orientation
Planning & Organisation
Continuous Learning

Education

A Master's degree or equivalent qualification in mechanical or aeronautical engineering, or similar field, is required..

Additional requirements

Experience with space mechanisms/mechanisms building blocks and related subsystems is required, as is knowledge of space tribology.

Some years of experience in the design, development and testing of mechanisms for space or aeronautical applications will be considered 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 16 July 2019.

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.