

Job Title: Electromechanical Engineer

Requisition ID 11955 - Posted 06/01/2021



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. For this purpose, we welcome applications from all qualified candidates irrespective of gender, sexual orientation, ethnicity, beliefs, age, disability or other characteristics. Applications from women are encouraged.

Post Electromechanical Engineer

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

Location
ESTEC, Noordwijk, The Netherlands

Description

Electro-Mechanical Engineer in the Test Facilities and Test Methods Section, Test Centre Division, Mechanical Department, Directorate of Technology, Engineering and Quality.

The Test Facilities and Test Method Section develops and improves the ESTEC Test Centre environmental test facilities, infrastructure and environmental test methods. In addition, technological research (R&D) activities in the above engineering fields are also carried out within the Section.

Duties

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

- planning, developing and implementing upgrades to existing facilities from the Test Centre to improve their reliability, performance and productivity;
- planning, developing and implementing new test facilities to support the evolution of space test requirements;
- coordinating and supervising installation, assembly and acceptance activities conducted for the test facilities;
- assessing existing test facility operations with respect to safety, cost effectiveness and performance, and assessing customer requirements so as to recommend modifications for upgrading and replacing hardware and/or software;
- supporting the maintenance, calibration, operation and repair activities performed by the Test Centre service contractor;
- improving existing test methods, and developing new ones, in respect of technical performance, productivity, reliability and measurement quality;
- supporting the other sections in the Test Centre Division, as required;
- providing expert technical support and consultancy to ESA projects, programmes and general studies in the field of environmental test facilities throughout all project phases;
- participating in feasibility studies, project reviews and evaluation of procurement proposals;
- monitoring applicable scientific and technological trends and maintaining state-of-the-art expertise;
- contributing to the dissemination of the results of the activities performed and the transfer of knowledge across the Agency.

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

Technical competencies

Environmental testing for space hardware

Hands-on experience with the operation, maintenance and repair of testing facilities (vibration, thermal, vacuum)

Hands-on laboratory experience

Experience with the design and development of complex electro- mechanical systems

Knowledge of laboratory quality and maintenance systems, e.g. ISO9001/9100/17025

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

Behavioural competencies

Results Orientation
Operational Efficiency
Fostering Cooperation
Relationship Management
Continuous Improvement
Forward Thinking

Education

A Master's degree in Mechanical Engineering or Physics is required.

Additional requirements

Knowledge of space project requirements, i.e. space environment, cleanliness and quality aspects, is 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 03 February 2021.

At the Agency we value diversity and we welcome people with disabilities. Whenever possible, we seek to accommodate individuals with disabilities by providing the necessary support at the workplace. The Human Resources Department can also provide assistance during the recruitment process. If you would like to discuss this further please contact us at 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.