

# Job Title: Electro-Mechanical Engineer

Req ID 8811 - Posted 05/08/2019



## 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

#### Electro-Mechanical 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

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 Methods 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 in the Test Facilities and Test Methods Section.

### Duties

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

- planning, developing and implementing upgrades to existing facilities with a focus on the Thermal Vacuum Test facilities in order 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;
- improving existing test methods and developing new ones, in respect of technical performance, productivity, reliability and measurement quality;
- 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 Division contractors;
- supporting the other sections of the Test Centre Division as required;
- supporting ESA projects for testing related activities and assessments 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 the post holder's field of competence.

## Technical competencies

General background and specific experience in the technical domains covered by the position  
Experience with operation and maintenance of environmental testing facilities (thermal, vacuum, vibration)  
Hands-on laboratory experience

## Behavioural competencies

Communication  
Teamwork  
Innovation & Creativity  
Problem Solving  
Planning & Organisation

## Education

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

## Additional requirements

Previous hands-on experience with environmental testing installations is required.

Knowledge of space project requirements, i.e. space environment, cleanliness and quality aspects, is an asset, as is experience in space hardware testing and facility development.

## 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 02 September 2019.

If you require support with your application due to a disability, please email [contact.human.resources@esa.int](mailto:contact.human.resources@esa.int).

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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.