

EUROPEAN SPACE AGENCY

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.

- TITLE** Electromagnetic Compatibility (EMC) and Harness Engineer in the Electromagnetic Compatibility and Harness Section, Power Systems, EMC and Space Environments Division, Electrical Department, [Directorate of Technology, Engineering and Quality](#).
- GRADE** This position is classified in the A2–A4 grade band 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, after which the selected candidate may be appointed to a permanent post at the Agency.
- LOCATION** ESTEC, Noordwijk (Netherlands).
- DUTIES** The EMC and Harness Section provides functional support to ESA projects and carries out technological research (R&D) in the field of EMC, including magnetic cleanliness. It is the focal point for electrical harness design and engineering.
- Reporting to the Head of the Section and within the above technical fields, the postholder will carry out the following main tasks and responsibilities :
- providing technical support and consultancy to ESA projects, programmes and general studies in the field of EMC engineering throughout all project phases, including:
 - definition and analysis of EMC requirements,
 - assessment of EMC test results, non-conformances and waiver requests,
 - definition and evaluation of magnetic cleanliness programmes, characterisation of DC magnetic properties of parts and equipment,
 - support to troubleshooting activities for spacecraft equipment and systems causing electromagnetic interference,
 - active participation in spacecraft or payload reviews;
 - applying EMC analytical software tools, evaluating the results obtained using them;
 - performing assessments and reviews of harness designs for EMC-related aspects;
 - laboratory activities as appropriate;
 - monitoring applicable scientific and technological trends while 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.

QUALIFICATIONS Applicants for this position should have a Master's degree or equivalent qualification in physics or electrical engineering together with knowledge of electromagnetics and analysis. Experience of EMC and test methods and laboratory testing will be considered assets.

Candidates must have a good mathematical background and be experienced at using software tools for analysis and data post-processing (Matlab).

Experience of working for projects in industry and of harness engineering will also be assets.

Applicants should have good interpersonal and communication skills. They should be able to work effectively, autonomously and cooperatively in a diverse and international team environment, defining and implementing solutions in line with team and individual objectives, as well as project deadlines. They should be able to demonstrate a high degree of professional curiosity and a strong interest in learning.

Candidates should have good analytical, organisational and reporting skills, a proactive attitude to problem-solving and an interest in innovative technologies.

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.

CLOSING DATE The closing date for applications is **18 April 2017**.

Applications from external candidates should preferably be made [online](#) from the ESA website (www.esa.int/careers). Those unable to apply online should submit their CV to Human Resources, ESTEC, Keplerlaan 1, 2201 AZ Noordwijk ZH, The Netherlands.

ESA staff members wishing to apply should fill in the [Internal Application Form](#) and email it to Apply2ESTEC.

The Agency may require applicants to undergo selection tests.

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, Slovenia, Spain, Sweden, Switzerland, the United Kingdom and Canada.

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.

Priority will first be given to internal candidates and secondly to external candidates from under-represented Member States.

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.